Lowrance hds 5x installation guide

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How to use a lowrance hds 12. Lowrance hds-5 how to use.

Page 1988-0176-01BHDS-5 & HDS-7Fish Finding Sonar and GPSOperations GuidePage 2Software updates for your unit. Occassionally check the Lowrance website for free software upgrades for yourunit. Go to www.lowrance.com for the software upgrades. Select the Downloads option from the grey menu bar near the top of the Lowrance website for free software upgrades. Select the Downloads screen will appear. Select Products SoftwareUpdates from the list on the left side of the screen. The Product list and select your unitto download the software update.Page 3ContentsTable of

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manual is packaged with a Quick	Start Guide, Installation Guide, License and Warranty booklet and NMEA 2000 Net	etworks Installation Instructions. If any ofthese documents are missing	g, you may acquire them via a free download at www.lowrance.com (	or by contacting customer service.Lowrance Customer Service12000 E Skelly DrTulsa, OK			
74128(800) 324-1356Canada (80	0) 661-3983 or (905) 629-1614About this manualThis manual documents how to a	djust features and options in your display unit. Theinformation in each	section follows the same sequence as your display unit's menus.If y	you would like information on how to get the most out of your unit, visit our website,			
www.lowrance.com; click on the	Support tab and select Tips and Tutorials.Manual ConventionsWhen you are instr	ucted to press a button in this manual, the button will be shownin all c	aps and bold text like — Menu, Exit, Enter, etc. If you are instructed	to select an item from a menu, the item to be selected will be listed in bold like —Brightness, Key			
beeps, etc.For example: Press Me	enu, select Language and press Enter.WARNING: When a GPS unit is used in a ve	hicle, thevehicle operator is solely responsible for operating thevehicle	e in a safe manner. Vehicle operators must maintain full surveillance	e of all pertinent driving, boating orflying conditions at all times. An accident or collision resulting			
in damage to property, personal i	injury or deathcould occur if the operator of a GPS-equipped vehiclefails to pay ful	ll attention to travel conditions and vehicleoperation while the vehicle	is in motion.5Page 8IntroductionLowrance HDS-5 and HDS-7ZOUT:	: Zoom out to see more of the map with less detailZIN: Zoom in to see less of the map with more			
detailMOB: Pressing ZOUT and Z	XIN at the same time will set a man overboard waypointKEYPAD: move thecursor,	scroll throughmenus, adjust features, view sonar/GPS historyENTER: f	finalizemenu selections;shortcut key forfunctions like savinga waypo	int at cursorpositionEXIT: cancelsentries, closesmenus & windows;toggles betweencursor position			
andchart location onChart pageP	AGES: opens Pagesmenu; selects activepanel for combodisplayMENU: opensconte	ext &settings menusLIGHT/POWER:controls backlightlevel & turns the	eunit on/offWPT/FIND: saves a waypointat current position; accesses	ssearching toolsMMC/SD Card slot: insertMMC/SD and high-detailmapping cards here6Page			
9Getting StartedGetting Started	Furning on the UnitPress the Power/Light key to turn on the unit. If the unit is not	connected toa transducer, the unit will start up in simulator mode. To	turn off the unit, press the Power/Light key for three seconds.Keypa	dKeypadThis unit's keypad can be used in two ways. Pressing the arrow symbols on the keypad will			
move the cursor in the correspon	ding direction on the screen and allow you to scroll through menus.BacklightTap	the Light/Power key to make adjustments to thebacklight level and op	en the Backlight Menu. To turn on NightMode from the menu, highl	ight Night Mode and press enter.Night mode optimizes the display for low light			
conditions.CursorUse the unit's k	keypad to move the cursor around the display, select onscreen objects, highlight da	ata items and view sonar history. Press Exit to remove the cursor from	the screen.LanguageSelects language used for menus, text boxes an	nd messages.To select a language:1. Press Menu twice.2. Select System and press ENTER3.			
Highlight Language and press El	NTER.4. Use the keypad to select a languageand press ENTER.7Page 10Getting Si	tartedMenusThis unit has a Settings menu, a Pages screen and severa	l contextmenus. The Settings menu provides access to the settings n	nenus forthe three main operation modes: Sonar, Chart and Radar. The Settingsmenu is accessed			
by pressing MENU twice.The Pag	ges screen allows you to select a page to be shown on thedisplay. Utilities are also	accessed from the Pages screen. Press thePAGES key to select a page	e.Each page has its own context menu which allows you to accessfur	nctions for that page. Context menus are accessible only when itscorresponding page is displayed.			
The Sonar Menu, for example, wi	illonly be available when the Sonar Page is on the display. To access acontext men	u, select the desired page and press the MENU key.Pages screenSona	ar menuChart menuSettingsmenuRadar menuClosing MenusPress th	he EXIT key to close a menu. Repeatedly pressing EXIT will close all menus,taking you back to the			
main screen. Selecting Chart DataThis unit supports three types of map data: Navico, Navionics and Navico 3D (US only). To use Navionics or Navico 3D data, youmust select it from the Chart data: 1. Press Menu twice. 2. Highlight Chart and press Enter. 3. Select Chart Data and press enter. 4. Select the desired map data							
option and press enter.8Page 110	Getting StartedSelecting a Fishing ModeFishing modes enhance the performance	of your unit byproviding preset packages of sonar settings geared to s	pecificfishing conditions. To select a fishing mode: 1. Press Menu twi	ce.2. Select Sonar and press enter.3. Highlight Fishing Mode and press enter.4. Select the desired			
fishing mode and pressenter.Fish	iing Mode OptionsGeneral UseBottom brown/blue background; 50% ping speedSh	allow WaterBottom brown/white background; best suited fordepths le	ss than 100 feetFresh WaterBottom brown/white background; 50% إ	ping speedDeep WaterDeep Blue; 50% ping speed; 50kHz is primarytransducer frequencySlow			
TrollingBottom brown/white back	rground; 50% ping speedFast TrollingBottom brown/white background; slightly lo	wer chartspeedClear WaterBottom brown/white background; 50% ping	g speedBrackish WaterBottom brown/blue background; higher ASP;	slightlylower chart speedEntering Letters in Text BoxesThis unit has some features and functions			
that mayKeypad button controlsr	equire you to enter data in a text box.uppercase & lowercaseTo enter data in a tex	xt box:1. H ighlight the text box and press ENTER.A keyboard will app	ear on the screen.2. U se the keypad to highlight the firstcharacter	and press ENTER. Repeatthis step until all characters have beenentered.3. Highlight OK and press			
enter.9Keyboard windowPage 12	Getting StartedRestore DefaultsThe Restore Defaults command switches the unit	back to the settings it had whenyou purchased it (default settings), To	Restore Defaults:1. Press Menu twice.2. Select System and press er	ter.3. H ighlight Restore Defaults and press Enter. A confirmation messagewill appear.4. Select			
Yes and press enter.10Page 13Pa	igesPagesPage iconsrotate aroundthe circularPagesmenuWith Sonar selected, uni	t willdisplay a full sonar screenCombodisplayoptionsallows youto disp	lay asplit screenPage IconsSonar icon rotated to center ofpage; has	blue border indicatingit is the selected page optionPages ScreenConsists of four page icons that			
scroll horizontally around the Pag	ges menu. To view the pages screen,press the Pages key.Selecting PagesPressing	the keypad left or right will move the page icons around the menu. To	select a page, move he desired page icon to the center of the screet	n.When selected, the page name will be highlighted in blue at the top of a list of combo display			
options.Its icon, will be framed b	y a blue border below the list. To display the page, press ENTER.11Page 14Pages	Data OverlayData overlay is information you can display on topof the p	page screen, allowing you to customize eachpage with desired data.	Data Overlay menuEvery page option has its own Data Overlay menu. The menu allows you to			
edit,add or remove overlay data f	from the display. To access Data Overlay menu, selecta page option and press mer	nu.NOTE: Adjusting Panel Sizes is covered later in this section in the D	isplaying Combo Pages segment.Edit Overlay menuAccesses data ov	verlay options for all the unit's page screens. To access Edit Data Overlay menu: 1. Select Edit Data			
overlay from the Data Overlayme	nu and press enter.2. P ress Menu. The Edit Overlay menu will appearwith Add G	auge selected.Edit Overlay menu12Page 15PagesEdit ModeWhen a ga	uge is added to the display it will be shown in edit mode. Analog and	dbar gauges are shaded in blue when they are in Edit Mode. Digital Gauges will beshown with a			
blue border.Digital gauge in edit	modeAnalog gauge in editmodeMove or Placing a GaugeThe Move gauge comman	nd allows you to move data overlay to any position on thescreen. When	i you use the Place gauge command, the gauge will be locked in itsc	urrent position. To move or place a gauge: 1. P ress the Enter key when the gauge is in Editmode.			
Four directional arrows will appe	ear when the gauge can be moved. 2. U se the keypad to move the gauge to a desire	edlocation on the screen.3. Press Enter to place the gauge. Select Data	Used to select data that will be shown on the data overlay display. V	When selectingdata you first will open a main data category and then choose data to be			
displayedfrom the a data subcate	gory.13Page 16PagesTime subcategorySelect data menuTo select data overlay:1.	Pressthe Select data softkey. The Select Data menu will appear.2. U s	e the keypad to select the desired category and press enter. A list of	subcategories will appear.3. Select the desired subcategory and press enter. TypeSwitches data			
overlay display between analog, (	digital and bar gauge formats, provided the format is appropriate for the selected (	data type. To change Type press the Type softkey to toggle between dig	gital and analog gaugeformats. Time in digital format time in analog	formatSizeSelects the size of the data overlay display. Data overlay can be displayed in			
foursizes. With the gauge in edit i	node (shaded in blue) press the Zoom out key to increaseoverlay size; press the Z	oom in key to decrease overlay size.14Page 17PagesSmall digital gaug	JeLarge analog gaugeLimitsControls the number scale used on data	overlay gauges and selects warning thresholds. Changing the limits on an analogor bar gauge			
removes unnecessary numbers fr	om the gauge, making them easier to read. Warnings help you stay withinselected	warning thresholds.Limits are configured by inputting analog or bar	gauge limits in the Limits text boxes — minimum and maximum. War	ningsthresholds are entered in the Low and High text boxes. To configure limits: ConfigurationLimits			
menu1. P ress the Limits softkey.	The Configuration Limits menu willappear.2. Select the Limits or Warnings text I	box and press enter.3. Use the keypad to enter the desired threshold.4	. Select OK and press enter 10 save changes: 1. Press Menu and high	niight Save.2. Press enter.15Page 18PagesConfiguration menuAllows you to Add/Remove sources			
and adjust Bezel, Captionand Inv	ert Text Settings. Other configuration menu options arecovered previously in the	section. 10 access the Configuration menu, highlight Configuration ont	ne East Overlay menu and press enter. Configuration SettingsBezelA	adas a bezei to the data overlay gauge, making it easier tosee against certain			
backgroundsCaptionAllows you t	o add/remove data label from gaugeinvert TextChanges appearance of data overla	ay textAdd SourceDisplays the same type of data from different source	s onthe same analog gauge.if, for example, you have multiple engine	es, you couldselect port engine RPM as your data type and then displaystarboard engine RPM using			
the Add source command.Both da	ata sources could be displayed simultaneously onan analog gauge with two needle	s; one dedicated to eachsource.Add Source menulo use Add Source:1	. S elect Add Source from the Edit Overlay menuand press enter. Th	le Add source menu willappear. 2. Hignlight à category à press enter. A list ofsubcategories will			
appear.3. S elect the desired sub	category and pressenter. Analog gaugesnowing KPM from two engines. To remove a	add source data: 1. H ignlight kemove source from the Edit Overlay me	enu anu pressenter. A list of sources will appear. 2. Select the source	you want to remove and press enter. 10 Page 19 PagesSonar PageDisplays the water column moving			
ironingnt to left on your unit's so	creen. On theright side of the screen, the AmplitudeScope bar previews echoes ab	out to appearon the display. The sonar page has three splitscreen view	settings and 14 color palette settings. Sonardisplay options are cove	ered in more detailing the Sonar Operation section. On the Sonar Page you can: • Move the cursor to			
any location on the screen to get	a depth reading. Snow lish echoes as lish symbols with lish depths. Adjust Range	e to view only desired portion of the water columnio access the Sonar	rage, use the keypad to highlight Sonar on the Pages menu andpre	ss ENTER. Unart PageConsists of a Map that moves in real timeas you move. By default, the map is			

shownfrom a birds-eye view with North at the topof the screen. This page has three map orientation options (North Up, Track Up & Course Up) and two ways to view the map: 2D and Shaded Relief (only available on select models). The cursor is used to scroll the map are is covered in moredetail in the Chart Operation section. On the Chart Page you can: • Save Waypoints • Find points of interest (POI) • Navigate routes; navigate to cursor and waypoints To access the Chart Page. use the keypad to highlight Chart on the Pages menu and press ENTER to access the Chart Page 20 PagesRadar PageDisplays the PPI (Position Planet) • Position Planet) • Save Waypoints • Find points of interest (POI) • Navigate routes; navigate to cursor and waypoints • Find points • Indicator)screen, Range Rings and the cursor. The PPI can be shifted to show more of adesired portion of the screen (Look Ahead, Center & Offset) and the color palettecan be changed to show returns in white, yellow, black or green. The radar page you can:• Overlay compass data, range rings and EBL/VRMs on display• Choose screen orientation from Head Up, Course Up & North Up• Make radar targets more visible via Target ExpansionUse the keypad to highlight Radar on the page screen and press ENTER to access the Radar Page.NOTE: You will only be able to see the Radar page if your unitis connected to a radar. Info Page Consists of multiple gauges — Analog, Digital and Bar — that can be customized to displayselected data. Customizing the info page you can:• Select data to be displayed in analog gauge or digital formats• Change the page layout using one of three templates• Select the range (scale) of analog gaugesTo access the Info Page, use the keypad to select Info on the pages screen and pressenter.18Page 21PagesData menuControls Info page data, page layout and data display formatselection. To access the Data menu, press Menu while on theInfo page.Dash 1, Dash 2 and Dash 3Data menuInfo Page dashboard templates that vary in page layout and in thenumber of gauges supported. The templates General Engine Layout Templates General Engine Layout Templates General Engine Layout to use the Info page without having to manually set up a gauge layout. Cauge Layout Templates General Engine Layout Templates (General Engine Layout), Dash 2 (General Engine Layout), Dash (DigitalLayout) and Dash 3 (Bar Layout) templates using the change layout command. Toselect a dashboard template on the Bata menu andpress enter.NOTE: You can toggle through the desired templates on thescreen by pressing the keypad left/right. EditUsed to select information displayed on the Info page. To switch the screen to EditMode, select Edit from the Data menu and press enter. The active gauge will beshaded in blue (analog) or surrounded by a blue border (digital and bar).19Page 22PagesTo edit gauge display:1. U se the keypad to select the gauge display:1. U se the keypad to select the gauge will beshaded in blue (analog) or surrounded by a blue border (digital and bar).19Page 22PagesTo edit gauge display:1. U se the keypad to select the gauge will be border (digital and bar).19Page 22PagesTo edit gauge display:1. U se the keypad to select the gauge will be border (digital and bar).19Page 22PagesTo edit gauge display:1. U se the keypad to select the gauge will be border (digital and bar).19Page 22PagesTo edit gauge display:1. U se the keypad to select the gauge will be border (digital and bar).19Page 22PagesTo edit gauge display:1. U se the keypad to select the gauge will be border (digital and bar).19Page 22PagesTo edit gauge display:1. U se the keypad to select the gauge will be border (digital and bar).19Page 22PagesTo edit gauge display:1. U se the keypad to select the gauge will be border (digital and bar).19Page 22PagesTo edit gauge display:1. U se the keypad to select the gauge will be border (digital and bar).19Page 22PagesTo edit gauge display:1. U se the keypad to select the gauge display:1. U se the keypad to select the gauge display:1. U se the keypad to select the gauge display:1. U se the keypad to select the gauge display:1. U se the keypad to select the gauge display:1. U se the keypad to select the gauge display:1. U se the keypad to select the gauge display:1. U se the keypad to select the gauge display:1. U se the keypad to select the gauge display:1. U se the keypad to select the gauge display:1. U se the keypad to select the gauge display:1. U se the keypad to select the gauge display:1. U se the keypad to select the gauge display:1. U se the keypad to select the gauge display:1. U se the keypad to select the gauge display:1. U se the keypad to select the gauge display:1. U se the keyp data category and pressenter. A list of subcategories will appear. S. Belect the desired subcategory and press Enter. The Finish Edit Data menu will appear. Highlight Finish Edit Data menu will appear. exit to switch gauges into Edit Modeto Normal Mode.Editing data on an analog gaugeEditing data on a digital gaugeEdit Data menu.NOTE: Select Data, Add Source and Configure Limits are described in more detail in the previous Data Overlay segment. 20 Page 23 Pages to select Data menu will appear. 3. S elect the desired subcategory and pressenter. To add source: 1. S elect Add Source from the Edit Data menuand press enter. A list of subcategories willappear. 3. S elect the desired subcategory and pressenter. To remove a source: 1. H ighlight Remove Source from the Edit Data menu and press enter. The Remove data-source window will appear. 2. Select the source you want to remove and press enter. The Configure Limits: 1. H ighlight Configure threshold.4. Select OK and press enter.NOTE: The Limits portion of the Configure Limits menu willonly be shown when configuring analog gauge limits.21Page 24PagesTo Finish Edit from the Edit Data menu and press enter. A confirmation message will appear.2. Select Save and press enter. Change LayoutControls the gauge layout of dashboard templates and customized dashboards. Thatallows you to select a desired gauge layout template for all dashboards. To change Layout from the Datamenu and press enter. Use the keypad to choose a gaugelayout template and press enter. Add DashboardAllows you to customize and save multiple dashboards templates. Desired data canbe added to the gauges on each dashboard, allowing you to create custom dashboard. When you have created all desired dashboards, press the keypad left/right to togglethrough your dashboards.To add a dashboards:1. S elect the desired gauge layout and press enter. The Change Layout menu will appear.2. S elect the dashboards:1. S elect the number of the dashboard you want todelete from the numerical dashboard list.2. H ighlight Remove Dashboard and press enter. A confirmation message will appear.3. Select Delete and press enter. Numerical dashboard list.2. H ighlight Remove Dashboard list.2. H i sonar logs and access othersystem settings. To access Utilities: 1. U se the keypad to center the utilities icon onthe screen. 2. S croll down the list of utilities Waypoints, Routes/TrailsAccess Waypoint, Route and Trails screen; covered in the Chart Operation SectionFindSearch for POIs, Vessels, Coordinates, Trails, Waypointsand Routes; covered in Chart Operation SectionAlarmsAccess alarm history, status and messages from vessels in the areaSun/MoonDisplays time when sun and messages from vessels in the areaSun/MoonDisplays time when sun and messages from vessels in the areaSun/MoonDisplays time when sun and messages from vessels in the areaSun/MoonDisplays time when sun and messages from vessels in the areaSun/MoonDisplays time when sun and messages from vessels in the areaSun/MoonDisplays time when sun and messages from vessels in the areaSun/MoonDisplays time when sun and messages from vessels in the areaSun/MoonDisplays time when sun and messages from vessels in the areaSun/MoonDisplays time when sun and messages from vessels in the areaSun/MoonDisplays time when sun and messages from vessels in the areaSun/MoonDisplays time when sun and messages from vessels in the areaSun/MoonDisplays time when sun and messages from vessels in the areaSun/MoonDisplays time when sun and messages from vessels in the areaSun/MoonDisplays time when sun and messages from vessels in the areaSun/MoonDisplays time when sun and messages from vessels in the areaSun/MoonDisplays time when sun and messages from vessels in the areaSun/MoonDisplays time when sun and messages from vessels in the areaSun/MoonDisplays time when sun and messages from vessels in the areaSun/MoonDisplays time when sun and messages from vessels in the areaSun/MoonDisplays time when sun areaSun/MoonDisplays tinterval area data files and sonar logs23Page 26PagesCopying a screenshotCopy File screenTo copy data files/sonar logs:1. HighlightFiles from the Utilities menu and press the keypad to the right. HighlightFiles from the Utilities menu and press the keypad to the right. data file/sonar log.4. P ress Menu. Highlight Copy and press enter. The Copy Filescreen will appear.5. Select a place to copy the file, like an MMC card. Press enter. A list ofsubcategories will appear.3. S elect a place to copy the file appear. Select appear. subcategory and press enter. Highlight the desired data file/sonar log. Copy and Delete buttons will appear at thebottom of the screen. 4. S elect the Delete button and press enter. 24Page 27PagesInfo selected as combodisplay optionGPS/Info combo PagesYou can display multiple pages at the same time by scrolling thedesired page's icon to the center of the screen and then choosing asecondary page from the list of combo page. Which will be displayed in the left panel. Primary page2. S elect another page from the primary page's combodisplayed in the right panel.3. P ress Enter. The selected combo page will bedisplayed only one panelcan be active at a time. The panel outlined withan orange border is the active page. You will onlybe able to access the context menu of the
active panel. Pressing the Menu key will open the active panel's context menu. To switch the active panel is active asshown by the orange border25Page 28PagesDisplaying Multiple PanelsMultiple panels can be displayed by setting up a combo display using a page thatsupports the Split feature. By displaying multiple panels, you can view moreinformation on the screen at one time. Step 1: Select sonar split screenStep 2: Choose page from combo display options listTo display multiple panels: 1. S elect a Split view for the sonar page. (Accessing the Split feature is covered in detail in the Usingyour Sonar section.)2. P ress the Pages key and use the keypad to center the Sonaricon on the screen.3. U se the keypad to select InfoPage from the combo page will be displayed with the Sonar split view on the left; the Info page on the right. Flasher, normal sonar and theinfo page shown on a multi-panel sizes Controls the size of panels, allows you to emphasize the panelyou want to see more clearly. Panels can only be adjusted left/right, so the panels on the side with the split viewAdjust panel sizes selected can not be adjusted vertically.on the Data Overlay menu26Page 29PagesMoving panels on multi-panel display on the screen, press menu. Highlight Adjust Panel Sizes: 1. W ith the combo page or multi-panel display on the screen, press menu. Highlight Adjust Panel Sizes: 1. W ith the combo page or multi-panel display on the screen, press menu. Highlight Adjust Panel Sizes: 1. W ith the combo page or multi-panel display on the screen, press menu. Highlight Adjust Panel Sizes: 1. W ith the combo page or multi-panel display on the screen, press menu. Highlight Adjust Panel Sizes: 1. W ith the combo page or multi-panel display on the screen, press menu. Highlight Adjust Panel Sizes: 1. W ith the combo page or multi-panel display on the screen, press menu. Highlight Adjust Panel Sizes: 1. W ith the combo page or multi-panel display on the screen, press menu. Highlight Adjust Panel Sizes: 1. W ith the combo page or multi-panel display on the screen, press menu. from the Data Overlaymenu and press enter.3. P ress the keypad left/right to adjust the panels to a desired size and press enter.27Page 30PagesBlank page28Page 31SonarSonar OperationSurface clutterWater columnTemperature GraphFish ArchesRangescaleCursor depthDepthLineBrushWater depth, watertemp and cursorcoordinatesColorlineCursorBlue sonar historyAmplitude Scope— shows amplitude of real-time sonar const historyAmplitude Scope— shows amplitude of real-time sonar const historyCursorYou can review your recent sonar history by moving the cursor to the left until the screen starts to move in reverse. To resume normal sonar scrolling, move the cursor from the screen. 29Blue sonar history bar at the bottom of the screen isall the way to the right. Press Exit toremove the cursor from the screen isall the way to the right. Range to Frequency and Stop Sonar. From the Sonar Menu. Sensitivity will show more detail on the screen; decreasing Sensitivity displays less. Too much detail will clutter the screen. Conversely, desired echoes may not bedisplayed if Sensitivity is set too low. Sensitivity set to 80 percentSensitivity set to 60 percentNOTE: By default, Sensitivity to a desiredlevel. Auto Sensitivity is set to auto mode. You mayhave to turn off Auto Sensitivity is set to auto mode. conditions, reducing the need for adjustments. You can make minor changes to sensitivity turned on, but you will have to turn it offto make significant adjustments. Auto Sensitivity from the Sonarmenu and pressing ENTER. 30 Page 33 Sonar ColorlineWide yellow hard Distinguishes strong sonar echoes fromsonar returns hard return will be shown as a wide, brightyellow line, whereas a soft return will be anarrow reddish-blue line. RangeUsed to select the section of the water column — from surface to bottom — shownon the display. When there is a portion of the water Range menu that includes the desiredarea. The values on the values on the desireda watercolumn, regardless of the water depth. There are21 depth ranges, including automatic and customsettings. The automatic setting will set the rangefrom the water surface to water depth. FrequencyThis unit supports three transducer frequencies; two of which are supported by yourtransducer. 200 kHz has the highest sensitivity and best targe discrimination inshallower water; 83 kHz offers a wider cone angle for greater water coverage and 50 kHz provides the best depth penetration. You can view both available frequencies at the same time by setting up a sonar split screen. SplitAdjusts the configuration of sonar page display using one of four options: No Split, Zoom, Bottom Lock and Flasher.Zoom displayBottom Lock31Flasher DisplayPage 34Sonar• No Split — display with a zoomed-in panel on the left; a normalBoonar view on the right• ottom Lock — splits the display with a zoomed-in panel on the left; a normalBoonar view on the right. Keeps the bottom on the screen at all times. • lasher - splits the display with a flasher-style sonar on the left; aFnormal sonar view on the rightStop SonarPauses the sonar chart, allowing you to get a closer look at sonar on the left; aFnormal sonar view on the rightStop SonarPauses the sonar chart, allowing you to get a closer look at sonar chart, allowing y H ighlight Adjust on the Sonar menuand press ENTER. Press the keypadup/down to select the Sensitivity or Colorline scrollbar.2. P ress the keypad left/right to makeadjustments.3. Press the keypad selecting a range that includes the water surface, you can choose upper and lower limits: 1. Select Range and press ENTER. Upper and Lower limit is 15 feet; lowerlimit is 65 feet?. H ighlight Custom and press ENTER. The Upper and Lower Limit window will appear.3. S elect the Upper or Lower Limit dialog box. Press ENTER. Thenumerical keypad will appear.4. U se the keypad to enter the desired value in the corresponding box. Press ENTER.5. R epeat Steps 3 and 4 to input the desired limit in the other dialogbox. Press ENTER. Thenumerical keypad will appear.4. U se the keypad to enter the desired value in the corresponding box. Press ENTER.5. R epeat Steps 3 and 4 to input the desired limit in the other dialogbox. Press ENTER. Thenumerical keypad will appear.4. U se the keypad to enter the desired value in the corresponding box. Press ENTER.5. R epeat Steps 3 and 4 to input the desired limit in the other dialogbox. Press ENTER.5. R epeat Steps 3 and 4 to input the desired value in the corresponding box. Press ENTER.5. R epeat Steps 3 and 4 to input the desired limit in the other
dialogbox. Press ENTER.5. R epeat Steps 3 and 4 to input the desired limit in the other dialogbox. Press ENTER.5. R epeat Steps 3 and 4 to input the desired limit in the other dialogbox. Press ENTER.5. R epeat Steps 3 and 4 to input the desired limit in the other dialogbox. Press ENTER.5. R epeat Steps 3 and 4 to input the desired limit in the other dialogbox. Press ENTER.5. R epeat Steps 3 and 4 to input the desired limit in the other dialogbox. Press ENTER.5. R epeat Steps 3 and 4 to input the desired limit in the other dialogbox. Press ENTER.5. R epeat Steps 3 and 4 to input the desired limit dialog box. Press ENTER.5. R epeat Steps 3 and 4 to input the desired limit dialog box. Press ENTER.5. R epeat Steps 3 and 4 to input the desired limit dialog box. Press ENTER.5. R epeat Steps 3 and 4 to input the desired limit dialog box. Press ENTER.5. R epeat Steps 3 and 4 to input the desired limit dialog box. Press ENTER.5. R epeat Steps 3 and 4 to input the desired limit dialog box. Press ENTER.5. R epeat Steps 3 and 4 to input the desired limit dialog box. Press ENTER.5. R epeat Steps 3 and 4 to input the desired limit dialog box. Press ENTER.5. R epeat Steps 3 and 4 to inpu transducer uses tosend sonar waves into the water. A higher ping speed will yield the best results when you are moving across the water at a high rate of speed or fishing from a dock. The reverberation of toomuch ping speed can cause interference on the screen. When using two units on your boat, lowering the ping speed of one of the units willprevent interference (cross-talk) caused by one transducer. The default setting is suitable for most conditions. Highlight PingSpeed on the Sonar Options Main of the default setting is suitable for most conditions. allows you to split thescreen between two sonar views, change the color of the display, use Fish ID and add graphical elements toscreen that will enhance your sonar experience. To access the Sonar Options menu, select Sonar Options menu, select Sonar Options menu, select Sonar Options to select a Split option: 1. F rom the Sonar Options menu, select Sonar Options menu and press ENTER. menu, highlight Split and press ENTER. The Split menu will appear. 2. U se the keypad to select the desired options. A bottom display to select a sonardisplay template suited for your fishing conditions from 14 palette options. A bottom brownpalette clearlyseparates fishand structure from the bottom Palette and press ENTER.34 Page 37 Sonar Temperature Graph Uses a red line graph with digital display at the top of the screen to illustrate changes in Temperature. The Temperature graph makes iteasier to recognize temperature graphDepth LineDepth trees and other objects. To turn on/off the Depth Line, select Depth Line, select Depth Lineand press ENTER. Amplitude Scope displays live returns even whenyou are viewing your sonar history. To turn off the Scope, highlightAmplitude scope on the Sonar Options menu and press ENTER.Amplitude ScopeZoom BarsWhen your unit is in Split Zoom mode, zoom bars show which echoes will be displayed on the screen when the top and bottom of a zoom bars will be displayed at that selected zoom range. Only echoes shown between the top and bottom of a zoom bars when the displayed on the screen when the displayed at that selected zoom range. To turn on/off Zoom Bars, and bottom of a zoom bars when the displayed at that selected zoom range. To turn on/off Zoom Bars, and bottom of a zoom bars when the displayed at that selected zoom range. To turn on/off Zoom Bars, and bottom of a zoom bars when the displayed at that selected zoom range. To turn on/off Zoom Bars, and bottom of a zoom bars when the displayed at that selected zoom range. To turn on/off Zoom Bars, and bottom of a zoom bars when the displayed at that selected zoom range. To turn on/off Zoom Bars, and bottom of a zoom bars when the displayed at that selected zoom range. To turn on/off Zoom Bars, and bottom of a zoom bars when the displayed at that selected zoom range. To turn on/off Zoom Bars, and bottom of a zoom bars when the displayed at that selected zoom range. To turn on/off Zoom Bars, and bottom of a zoom bars when the displayed at that selected zoom range. To turn on/off Zoom Bars, and a zoom bars when the displayed at that selected zoom range. To turn on a zoom bars when the displayed at the displaye highlight Zoom Bars on the Sonar Options menu andpress ENTER.NOTE: When the screen is zoomed, you can use the ZoomPan feature to scroll up and down the water column. Thatallows you to see portions of the water column not visible atthe selected zoom range. 38SonarFish IDDisplays fish echoes as fish symbols instead offish arches with or without depth. This makesit easier to recognize fish on the sonar display. Symbols — places a fish symbol to the boat. Fish Symbols and DepthsBoth turns on both Symbols and Depths. To select Fish ID option: 1. Highlight Fish ID and press Enter. 2. Use the keypad to select Symbols, Depths or Both andpress ENTER. Log Sonar Data from the Sonar menu and pressENTER. FilenameLog Sonar MenuInput the desired name for the sonar log fileSave toSelects location where sonar log will be saved/storedBytesControls number of bytes per sounding. More bytes per sounding time; conversely, fewerbytes produces longer sonar log sona left until memory storage runs out36Page 39SonarTo input filename:1. H ighlight the Filename text box and press enter. A keyboard will appearon the screen.2. U se the keypad to input filename:1. H ighlight the Filename text box and press enter. Internal selected on device menuFilename keyboard by the screen.2. U se the keypad to input filename:1. H ighlight the Filename text box and press enter. Internal selected on device menuFilename keyboard by the screen.2. U se the keypad to input filename:1. H ighlight the Filename text box and press enter. Internal selected on device menuFilename keyboard by the screen.2. U se the keypad to input filename text box and press enter. Internal selected on device menuFilename keyboard by the screen.2. U se the keypad to input filename text box and press enter. Internal selected on device menuFilename keyboard by the screen.2. U se the keypad to input filename text box and press enter. Internal selected on device menuFilename keyboard by the screen.2. U se the keypad to input filename text box and press enter. Internal selected on device menuFilename keyboard by the screen.2. U se the keypad to input filename text box and press enter. Internal selected on device menuFilename keyboard by the screen.2. U se the keypad to input the desired filename.3. Select OK and press enter. Internal selected on device menuFilename keyboard by the screen.2. U set the keypad to input the screen.3. Select OK and press enter. Internal selected on device menuFilename keyboard by the screen.3. Select OK and press enter. Internal selected on device menuFilename keyboard by the screen.3. Select OK and press enter. Internal selected on device menuFilename keyboard by the screen.3. Select OK and press enter. Internal selected on device menuFilename keyboard by the screen selected on dev Sounding:1. H ighlight Save to or Bytes per Sounding from the Sounder LoggingMenu and press enter. Use the keypad to select the desired option and press enter. Use the keypad to select the desired option and press enter. recorded, a blinking red circlewill be displayed in the upper left-hand corner of thescreen and a logging message will appear periodicallyat the bottom of the screen.37Logging Indicator blinkswhen sonar is beingrecordedPage 40SonarTo stop logging:1. S elect Stop from the Sounder Loggingmenu and press enter. The StopLogging menu will appear.2. H ighlight the Stop Logging button and press Enter. Stop Logging menuNOTE: Refer to the Utilities segment of the Pages section forinformation on copying and deleting files. 38Page 41 Chart Chart Operation Displaying the Chart page 41 Chart Chart Operation Displaying the Chart page 41 Chart Chart page 41 Chart Chart Operation Displaying the Chart page 41 Chart Chart page 41 Chart Chart Displaying the Chart page 41 Chart Displaying the Chart page 41 Chart Chart Displaying the Chart page 41 Chart Displaying the Chart page 41 Chart Chart Displaying the Chart page 41 Chart Displaying the Chart Displaying the Chart page 41 Chart Displaying the Chart Displ Chartand press Enter. Access the Chart page from the Pages menu. Chart page (2D Chart mode) Point of Interest (POI) Cursor coordinates Waypoint Current position icon 39 Chart orientation indicator (POI): A construction indicator Cursor Map scale Page 42 Chart The previous image shows some of the different items you will see when viewing the Chart page: • oint of Interest (POI): A construction indicator Cursor Map scale Page 42 Chart The previous image shows some of the different items you will see when viewing the Chart page: • oint of Interest (POI): A construction indicator Cursor Map scale Page 42 Chart The previous image shows some of the different items you will see when viewing the Chart page: • oint of Interest (POI): A construction indicator Cursor Map scale Page 42 Chart The previous image shows some of the different items you will see when viewing the Chart page: • oint of Interest (POI): A construction indicator Cursor Map scale Page 42 Chart The previous image shows some of the different items you will see when viewing the Chart page (POI) and Page 42 Chart The previous image shows some of the different items you will see when viewing the Chart page (POI) and Page 42 Chart Page position on the Chart page represented byPa symbol or character.• ursor: Used to view specific areas on the Chart page, select POIs, Ccreate waypoints and measure distances. When the cursor is onscreen, pressing the Exit key will toggle between the cursor's location the Chart page and your actual position. As long as the cursor is on the Chart page your actual position may not be visible. hart orientation
indicator: Indicates the current direction the ChartCpage is facing. ursor coordinates: Displays the coordinates of the cursor on the Chart page. Waypoint: An electronic address based on the latitude and longitude of a selected Chart location. ap Scale: Represents the relationship between the distance on Mthe Chart page and the real distance on the earth's surface.• Current position icon represents your current position icon representsyour current position on screen. The icon always points to your heading. If the current position icon representsyour current position icon represents your current position. displays a question mark then the unit has notachieved a satellite lock and is not tracking your current position. Whensufficient satellites are received to determine a position, the icon's movement will correspond with your movement. Chart menu use the Chart menu to adjust settings and enter commands. From this menu you have access to routes, waypoints, info, chart options and screen settings. To open the Chart menu, go to the Chart menu, go to the Chart menu, top to bottom: • New Waypoint: Creates a new waypoint. • New Route: Creates a new route. • Go to Cursor: Navigates to the cursor position the Chart menu, top to bottom: • New Waypoint: Creates a new route. • Go to Cursor: Navigates to the cursor position the Chart menu, top to bottom: • New Waypoint: Creates a new route. • Go to Cursor: Navigates to the cursor position the Chart menu, top to bottom: • New Waypoint: Creates a new waypoint. • New Waypoint: Creates a new route. • Go to Cursor: Navigates to the cursor position the Chart menu, top to bottom: • New Waypoint: Creates a new waypoint. • New Waypoint: Creates a new route. • Go to Cursor: Navigates to the cursor position the Chart menu, top to bottom: • New Waypoint: Creates a new route. • Go to Cursor: Navigates to the cursor position the Chart menu, top to bottom: • New Waypoint: Creates a new route. • Go to Cursor: Navigates to the cursor position the Chart menu, top to bottom: • New Waypoint: Creates a new route. • Go to Cursor: Navigates to the cursor position the Chart menu, top to bottom: • New Waypoint: Creates a new route. • Go to Cursor: Navigates to the cursor position the Chart menu, top to bottom: • New Waypoint: • New page.40Chart menuPage 43Chart• ind: Opens the Find menu. From the Find menu you can search forFitems by select categories.• Info: Shows a list of items close to the cursor.• easure: Used to measure the distance between current positionMand another point on the Chart page or between two different points.• Overlay: Toggles radar overlay overlay on or off.• hart options: Opens the Chart options submenu which containsCthe Map Orientation, Look Ahead, Chart categories and Imagery features. Map Orientation settings are North Up, Heading Up and Course Up.Look Ahead increases the view of your track.Chart categories opens the Chart Categoriesscreen.Chart options submenuImagery selects between 2D and Shaded Reliefmapping (only available on select a Chart page with CursorTo select a Chart page wit over a POI. A pop-upbox will appear describing the POI's coordinates are displayed in the lower left handcorner of the Chart page.41Page 44ChartWaypoint at the cursor's coordinates are displayed in the lower left handcorner of the Chart page.41Page 44ChartWaypoint at the cursor's coordinates are displayed in the lower left handcorner of the Chart page.41Page 44ChartWaypoint at the cursor's coordinates are displayed in the lower left handcorner of the Chart page.41Page 44ChartWaypoint at the cursor's coordinates are displayed in the lower left handcorner of the Chart page.41Page 44ChartWaypoint at the cursor's coordinates are displayed in the lower left handcorner of the Chart page.41Page 44ChartWaypoint at the cursor's coordinates are displayed in the lower left handcorner of the Chart page.41Page 44ChartWaypoint at the cursor's coordinates are displayed in the lower left handcorner of the Chart page.41Page 44ChartWaypoint at the cursor's coordinates are displayed in the lower left handcorner of the Chart page.41Page 44Chart page.41Pag position on the Chart page. You also can create a waypoint atany location by manually entering the position's latitude and longitude. Waypoint at a specific location, such as a favorite fishing spot or an important because they can be saved in the unit and later used to findyour way back to a specific location, such as a favorite fishing spot or an important because they can be saved in the unit and later used to findyour way back to a specific location, such as a favorite fishing spot or an important because they can be saved in the unit and later used to findyour way back to a specific location, such as a favorite fishing spot or an important because they can be saved in the unit and later used to findyour way back to a specific location. the vessel's current positionpress the WPT/Find key. Create/Delete Waypoint at the Cursor's position on Chart page:1. Placethe cursor on the Chart page:1. Plac Cursor menuTo create a Waypoint at the Vessel's position on Chart page: 1. Press the MENU key. From the Chart menu select New Waypoint. 2. When the New Waypoint at Vessel menu appears, select Save. 42Page 45ChartTo Navigate to a Waypoint at Vessel menu appears, select Save. 42Page 45ChartTo Navigate to a Waypoint. ENTER. When the Waypoints screen menu will appear. From the Waypoints screen menu selectGo to. Waypoints screen menu will appear. From the Waypoints screen you can view and edit stored waypoints.Waypoint iconWaypoint iconWaypoint latitudeand longitude. Time and date thewaypoints screen menu, press the MENU key from the Waypoints screen menu, press the MENU key from the Waypoints screen menu, top to bottom:• dit: Opens the Edit WaypointEmenu.• ew: Opens the New Waypoints.• Shows the Waypoints.• Find: Use to search for waypoints in the Waypoints screen. Waypoint by name for Waypoint by name. To Search for Waypoi Waypoints screenmenu select Find. A keypadwill appear. Use the keypad toenter the name of the waypoints are sorted in the Waypoints screen, Sort Waypoints are sorted by Name Nearest or Icon. By default theunit stores waypoint is saved to the Chart page, you can view detailed informationabout that saved to the Chart page, you can view detailed information. Place the waypoint information screenWhen a waypoint on the Chart pageTo Edit a Waypoint from the Chart page: 1. P lace the cursor over the waypoint. Edit Waypoint menu will appear. Edit Waypoint menu is used to edit waypoint. Edit Waypoint menu will appear. Edit options:Select More from the Edit Waypoint enu and the following edit options will appear:• Name: Edit the name of a waypoint.• Icon: Select a different waypoint icon.• Color: Change waypoint icon.• Color: Change waypoint.• Icon: Select a different waypoint information.• Icon: Select a different waypoint information.• Icon: Select a different waypoint icon color.45Page 48Chart• Description: Input additional waypoint icon color.45Page 48Chart• Description: In how a waypoint willDbe displayed on Chart page. Depth: Select waypoint depth. Iarm Radius: Input distance thatAsounds alarm when near a specific waypoint changes. Edit Waypoint name, description, position or depthTo Edit Waypoint name, description, position or depthTo Edit Waypoint name. or description:1. F rom the Edit Waypoint menu, select the Name or Description text boxand press ENTER. The Waypoint position:1. F rom the Edit Waypoint menu select the latitude or longitude text box and pressenter.2. U se the Arrow keypad to input the desired latitude or longitude and select OK. To Edit Waypoint depth or alarm radius: 1. F rom the Edit Waypoint (More) menu select the Depth or Alarmradius text box and press enter. A numerical keypad will appear. 2. U se the keypad to input the desired depth or alarm radius and pressENTER. 46 Page 49 ChartEdit Waypoint icon and colorYou can change the default waypoint icon and color from the Edit Icon menu.Edit Icon menu.Edit Icon menu and EditIcon Color menu to change theappearance of icons on the Chartpage.Icon color paletteRoutesRoutes make it easier to plan trips to desired destinations and backtrack to a previouslocation. A route is a series of waypoints linked together to mark a course of travel. Aroute must have at least two waypoints. The route segment between two waypoints in an ordered sequence without having manually select the next waypoint in the series. Create Route from Chart page to create a new route open the Chart menu, press enter. 2. M ove the cursor to the start of the route and select New Route. You can use the cursor to the start of the route and select New Route. press ENTER to set a second waypoint. Move the cursor to the next location and pressENTER to set a second waypoint.47Page 50Chart1. R epeat Step 2 until you have set all the desired waypoints along the route. 2. P ress the MENU key to open the Edit route menu. Select Save and press ENTER. The route will be saved to the Routes screen. 3. F rom the Routes screen highlight the route and select Start. TheStart Route message box will appear, select Forward.48Page 51ChartRoutes screen you can view and edit stored routes.End of routename.Route nameStart of routename.Route lengthNumber of legsin route. Routes screen menu you can create a new route, edit a route or start aroute. To open the Routes screen menu, from the Routes screen menu, top to bottom:• Edit: Opens the Edit Route screen.• ew: OpensNscreen.• how: Shows the Route on the SChart page.• tart: Select to start navigating aSroute.• Delete: Delete: Delete and pressENTER. The Edit Route: 1. F rom the Route screen select to start navigating aSroute.• Delete All: Delete and pressENTER. The Edit Route: 1. F rom the Route screen select to start navigating aSroute.• Delete All: D Route screenwill appear.2. F rom the Edit Route screen youcan edit the route name, displayand waypoints in the route.3. U se the Arrow keypad to
select the route screen Select the route from the route screen youcan edit the route screen you want toedit and press ENTER. Edit Route screen you want toedit and press ENTER. The Edit Route scree will appear.2. H ighlight the Display check box and press ENTER to either Displayor hide the route from the Chart page.To Insert, Edit or Remove Waypoints from the Routes screen will appear. Select a waypoint from the Waypointlist, press MENU. A small submenuwill appear with the options: Insert, Edit and Remove.3. S elect Insert and press ENTER to insert a waypoint to he route screen menu will bring up the EditWaypoint dialog. To Navigate Route from Routes screen menu will be route screen menu will appear.2. S elect Start from the Routes screen menu The Start Route dialogwill appear. Select Forward to navigate the route forward or Reverseto navigate the route forward or Reverseto navigate the route forward to navigate the route forward to navigate the route screen menu select Find. A keypad will appear. Use the keypad to enter the name of the route you are searching forand press OK. Trails have traveled. Trails not only show you where youhave been, they can be used to retrace your path back to your starting point. On the Chart page a trail is presented by a solid line extending from the back of the currentposition icon. From the factory, the unit is automatically set to create and record a trail when theunit is turned on and you are navigating. The unit will continue to record a trail untilthe trail length reaches the maximum trail point setting. When the unit is automatically begin continue to record a trail untilthe trail length reaches the maximum trail point setting. itself. By default, the unit places a dot (trail point) on the Chart page every time you change course. Trails screen To view stored trails. Trail nameTrail colorNumber of Trailpoints. Indicates if Trail is displayed on Chart page. Indicates if Trail isbeing recorded.51Page 54ChartTrails screen menu, topto bottom:• dit: Opens the Edit TrailEmenu.• ew: Opens the Trails screen menu, topto bottom:• dit: Opens the Edit TrailEmenu.• ew: Opens the New TrailNmenu.• how: Brings up the ChartSpage and shows the trail.• Delete: Deletes a selected trail.• Delete: Deletes a selected trail.• Delete: Deletes a selected trail.• Find: Use to search for trails in the Trails screen.Trails screen menuNew Trail menuYou can edit a trail from the New Trail menu or from the Edit Trail menu once atrail is created. To Create a New Trails. The Waypoints and Routes screen will appear. From the Waypoints and Routes screen will appear. From the Waypoints and Routes screen will appear. MENU. The Trails screen menu will appear. New Trail menu4. F rom the Trails screen menu select New, press MENU. The NewTrail menu will appear, select Save.52Page 55ChartEdit Trail menu4. F rom the Trails screen menu select New, press MENU. The NewTrail menu will appear select Save.52Page 55ChartEdit Trail menu will appear, select Save.52Page 55ChartEdit Trail menu will appear. name:1. F rom the Trails screenselect the trail to be edited, press ENTER. The Edit Trail menu will appear. Use the keypad will appear. Use the keypad will appear. Use the keypad to enterthe desired trail name and select OK. Edit Trail menu Trail line Color optionsYou can change the default trail line color palette menuNOTE: If you record several overlapping trails, changingthe color of the different trail lines is a good way to keep themseparate when viewing them on the Chart page 56ChartMeasuring Distances on Chart page or between two different points. To select/deselect Measure feature: 1. F rom the Chart page or between two different points. To select/deselect Measure feature: 1. F rom the Chart menu will appear. 2. F rom the Chart menu will appear. 3. When the Chart menu will appear cursor is on screenthe cursor coordinates windowwill display distance from yourposition to the cursor over a point and press ENTER, an X willappear on the Chart page. Distance will be measured from the X on the Chart page to wherever the cursor is placed on screen. Search by Coordinates To search for Chart page POI using coordinates: 1. F rom the Chart menu will appear. 2. F rom the Find menu selectCoordinate. The Find Coordinatekeypad will appear. Use thekeypad to enter the desired coordinates and select OK. Find Chart page item: 1. F rom the Find menu will appear. Select Find. The Find menu will appear. Use the keypad to enter to enter the second to enter the name of the chart item and select OK.54Page 57ChartTo view a list of specific Chart POI search options select Category from the Grant POI search options select Category from the Chart POI search options select Category from the Find - Chart Items screen. A drop down list. Map Orientation: 1. F rom the Chart page press the MENU key. The Chart menu willappear, select Chart options. The Chart options submenu willappear.2. F rom the Chart options submenu select Map Orientation. The three Map Orientation. The three Map Orientation. The three Map Orientation. The three Map Orientation. the boat is facing. • Course Up — Displays the Chart page at the same orientation as yourinitial bearing to a destination. Look Ahead Keeps your current position at the bottom of the Chart page press the MENU key. The Chart menu willappear, select Chart options. The Chart options submenu willappear.55Page 58Chart2. F rom the Chart page press MENU. The Chart options submenu select or deselect Look Ahead toturn this feature on or off. Chart categories: 1. F rom the Chart page press MENU. The Chart options submenu willappear. Chart menu will appear; selectChart options. The Chart optionssubmenu will appear. 2. F rom the Chart options submenuselect Chart optionsyou want to display on screen. 2D and Shaded Relief (Shaded Relief only available on U.S. models) To select between 2D and Shaded Relief: 1. F rom the Chart options: 2D and Shaded Relief. Make your select Imagery. The Imagery dropdown menu will appear. F rom the Chart options: 2D and Shaded Relief. Make your selection and press ENTER.2D mappingShaded Relief, only availableon U.S. models.56Page 59ChartChart page Icons, Tides and Currents Use the cursor on the Chart page to view detailed information about an icon, press the cursor on the Chart page to view detailed information about an icon, press the cursor on the Chart page. MENU key then select Info from the Chart menu. From the Chart Info screen, press Details. Detailed information also can be viewed for Tide icons. Radar overlay:1 H ighlight Overlay on the Chartmenu and press enter. 2. S elect Radar Options menu 37 Page 60 ChartRadar Options menu 57 Page 60 ChartRadar Options menu 57 Page 60 ChartRadar Options menu 57 Page 60 ChartRadar Options from the Chart Page. To access the Radar Options menu appears when Radar Options menu 57 Page 60 ChartRadar Options from the Chart Page. To access the Radar Options menu appears when Radar Options menu 57 Page 60 ChartRadar Options from the Chart Page. To access the Radar Options menu 57 Page 60 ChartRadar Options from the Chart Page. To access the Radar Options menu appears when Radar Options menu 57 Page 60 ChartRadar Options from the Chart Page. To access the Radar Options menu 57 Page 60 ChartRadar Options from the Chart Page. To access the Radar Options menu 57 Page 60 ChartRadar Options from the Chart Page. To access the Radar Options menu 57 Page 60 ChartRadar Options from the Chart Page. To access the Radar Options menu 57 Page 60 ChartRadar Options from the Chart Page. 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Radar Options from the Chart Page. To access the Radar Options from the Chart Page. To access the Radar Options from the Chart Page. To access the Radar Options from the Chart Page. To access the Radar Options from the Chart Page. To access the Radar Options from the Chart Page. To access the Radar Options fro menu andpress Enter.Radar Options menuRadar StateSelects radar transmission modeAdjustAdjusts Gain, Sea Clutter, Rain Clutter, InterferenceRejection and Target BoostAuto GainAutomatic Gain setting that is suitable for a variety of conditionsSea Clutter Selects Sea Clutter setting from auto (harbor, offshore) and manual settings.TransparencyControls the transparency of radar overlay on the map Tomake adjustments, highlight Transparency and press thearrow keys left/rightNOTE: Radar State, Adjust, Auto Gain and Sa Clutter arecovered in more detail in the Radar Operation section.NavionicsYour unit offers an unprecedented level of 2D and 3D mapping detail and numerous mapping options, including Navionics chartcards. Navion data is displayed by default. To view Navionics card in the unit's MMC/SD card slot. 2. Press Menu twice, select Chart and press enter. 3. Highlight Chart data and press enter. 4. Select Navionics chart and press enter. 4. Select Navionics and press enter. 4. Select Navionics card in the unit's MMC/SD card slot. 2. Press Menu twice, select Chart and press enter. 4. Select Navionics a Platinum, Gold, Silver, Classic and HotMaps chartcards with your HDS unit.58Page 61ChartNavionics Settings: 1. S elect Chart options from the Chart menuand press Enter.2. Highlight Settings and press Enter.3. Select a setting and press enter.4. H ighlight the desired option and pressenter. Navionics Settingsmenu afety Depth — Allows you to display the depth areas corresponding to the Ssafety contour desired. Available options are: Off: No depth area displayed. ther numeric depth values: The areas with depths up to value selectedOare displayed in shades going from darker blue (for lower depths). The areas whose depths are over the selectedValue, and therefore navigable under safety conditions, will be displayed in green.• Contourse depths are over the selectedValue, and therefore navigable under safety conditions, will be displayed in green.• Contourse depths are over the selectedValue, and therefore navigable under safety conditions, will be displayed in green.• Contourse depths are over the selectedValue, and therefore navigable under safety conditions, will be displayed in green.• Contourse depths are over the selectedValue, and therefore navigable under safety conditions, will be displayed in green.• Contourse depths are over the selectedValue, and therefore navigable under safety conditions, will be displayed in green.• Contourse depths are over the selectedValue, and therefore navigable under safety conditions, will be displayed in green.• Contourse depths are over the selectedValue, and therefore navigable under safety conditions, will be displayed in green.• Contourse depths are over the selectedValue, and therefore navigable under safety conditions, will be displayed in green.• Contourse depths are over the selectedValue, and therefore navigable under safety conditions, will be displayed in green.• Contourse depths are over the selectedValue, and therefore navigable under safety conditions, will be displayed in green.• Contourse depths are over the selectedValue, and therefore navigable under safety conditions, will be displayed in green.• Contourse depths are over the selectedValue, and therefore navigable under safety conditions, will be displayed in green.• Contourse depths are over the selectedValue, and therefore navigable under safety conditions, and therefore under safety conditions, and therefore under safety co Depth — Used to select the display of depth contours.NOTE: When Night mode is selected, depth areas are displayed from lighter blue (for lower depths). Depth areas over the value set are displayed in black. Available options:-5m: display depth contours up to 5 meters (16 feet)-10m: display depth contours up to 10 meters (33 feet)-20m: display depth contours up to 20 meters (66 feet)-All: all depth contours are displayed59Page 62Chart• exture Type — Enables (off) the 3D shading feature. These features are only applicable with NavionicsPlatinum<sup>™</sup> or Platinum Plus<sup>™</sup> charts.• nnotation — Allows you to display "Main" names (i.e. city names) onlyAor the selection of the symbols and colorsof the navigation chart "look and feel"; either U.S. or International "paperchart" presentation types can be selected.• Chart Details — This menu is used to select which object types and information layers are display settings as defined in ECS regulations. II: Enables the display of all the object types and information layers are displayed on-screen. Available options: Standard display settings as defined in ECS regulations. types and information layerson-screen.60Page 63RadarRadar OperationRangeRange Ring SizeNorth IndicatorRadar orientation indicator a radar.Radar menuUse the Radar menu to make adjustments to radar displaysettings and features that not only change the Appearance of the display. but also make navigation easier. To access the Radar menu, press the Menu key when the Radar page is on the display. Standby. Off turns off theradar. Transmit broadcasts a radar signal and standby leaves the radar on, but doesnot broadcast a signal. To select the desired state and press enter. NOTE: It can take 90 seconds or more to transition from Offto Standby. Adjust menuFrom the Adjust menu you can make adjustments to Gain, Sea clutter, Interference rejection and Target boost. To access the Adjust menu: 1. From the Radar menu select Adjust menu: 1. From the Radar menu: 1. From the Radar menu select Adjust menu: 1. From th receiver. Increasing gainwill show more detail on the screen; decreasing gain will showless detail. Too much detail will clutter the screen. Conversely, desired returns may not be shown if gain is too low. Auto GainSelecting Auto gain from the Radar menu will automatically set the sensitivity of the receiver to a level that works well under most conditions, reducing the need foradjustments. If you make adjustments to the Gain level when Auto gain is on, Gainwill switch to manual mode. To select Auto gain and press ENTER.62Page 65RadarSea ClutterAllows you to select the Sea Clutter adjustment mode — Auto or Manual. If youmake changes to Sea Clutter when it is in auto mode (Harbor or Offshore), SeaClutter from Auto to Manual mode.Sea Clutter when it is in auto mode (Harbor or Offshore), Sea Clutter from Auto to Manual mode.Sea Clutter fr radar signals, cluttering the screen. Interference RejectionReduces or eliminates returns caused by rain, hail, sleet or snow.Interference from its radar signals can appear on your display. Increase interference rejection until radar interference is eliminated from yourdisplay. Interference Rejection has four settings: Off, Low, Medium and High.Clear TrailsClears all target from the radar screen. New trails will continue to appear unless you turn off the target trails feature. To Clear Trails: 1. Press the Menu key, the Radar menu will appear. 2. Use the Arrow keypad to select Clear Trails: 1. Press the Menu key, the Radar menu will appear. There are three Position options: Center, Look Ahead and Offset. To change the PPI position: 1. Select Position from the Radar menu and press enter. 2. Select the desired position from the Radar menu and press enter. 2. Select the desired position from the Radar menu and press enter. 2. Select the desired position from the Radar menu and press enter. 2. Select the desired position from the Radar menu and press enter. 2. Select the desired position from the Radar menu and press enter. 2. Select the desired position from the Radar menu and press enter. 2. Select the desired position from the Radar menu and press enter. 2. Select the desired position from the Radar menu and press enter. 2. Select the desired position from the Radar menu and press enter. 2. Select the desired position from the Radar menu and press enter. 2. Select the desired position from the Radar menu and press enter. 2. Select the desired position from the Radar menu and press enter. 2. Select the desired position from the Radar menu and press enter. 2. Select the desired position from the Radar menu and press enter. 2. Select the desired position from the Radar menu and press enter. 2. Select the desired position from the Radar menu and press enter. 2. Select the desired position from the Radar menu and press enter. 2. 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If you shift the PPI to the right, you will be able to see more of the area behind youCenter: PPI centered on the displayLook Ahead: PPI moves down, allowing you to see more of whatis in front of you64Page 67RadarSymbology onSymbology onSymbology onSymbology feature allows you to remove them all at once. To toggle Symbology on/off highlight Symbology on the radar menu and pressenter.EBL/VRM 1EBL/VRM 1EBL/VRM 1 & EBL/VRM 2 Data BoxesEBL/VRM 1 & EBL/VRM 2 Data BoxesEBL/VRM 1 EBL/VRM 2 Data BoxesEBL/VRM
1 EBL/VRM 1 EBL/VRM 1 EBL/VRM 1 EBL/VRM 1 EBL/VRM 2 Data BoxesEBL/VRM 1 EBL/VRM 1 E the RadarMenu allows you to place up to two EBL/VRMs on the PPI display.65Page 68RadarEBL/VRM: nenuPlaces selected Electronic Bearing Line and VariableRange Marker on the display.70 select an EBL/VRM: nenuPlaces selected Electronic Bearing Line and VariableRange Marker on the BBL/VRM: nenuPlaces selected Electronic Bearing Line and VariableRange Marker on the display.65Page 68RadarEBL/VRM: nenuPlaces selected Electronic Bearing Line and VariableRange Marker on the display.65Page 68RadarEBL/VRM: nenuPlaces selected Electronic Bearing Line and VariableRange Marker on the display.65Page 68RadarEBL/VRM: nenuPlaces selected Electronic Bearing Line and VariableRange Marker on the display.65Page 68RadarEBL/VRM: nenuPlaces selected Electronic Bearing Line and VariableRange Marker on the display.65Page 68RadarEBL/VRM: nenuPlaces selected Electronic Bearing Line and VariableRange Marker on the display.65Page 68RadarEBL/VRM: nenuPlaces selected Electronic Bearing Line and VariableRange Marker on the display.65Page 68RadarEBL/VRM: nenuPlaces selected Electronic Bearing Line and VariableRange Marker on the display.65Page 68RadarEBL/VRM: nenuPlaces selected Electronic Bearing Line and VariableRange Marker on the display.65Page 68RadarEBL/VRM: nenuPlaces selected Electronic Bearing Line and VariableRange Marker on the display.65Page 68RadarEBL/VRM: nenuPlaces selected Electronic Bearing Line and VariableRange Marker on the display.65Page 68RadarEBL/VRM: nenuPlaces selected Electronic Bearing Line and VariableRange Marker on the display.65Page 68RadarEBL/VRM: nenuPlaces selected Electronic Bearing Line and VariableRange Marker on the display.65Page 68RadarEBL/VRM: nenuPlaces selected Electronic Bearing Line and VariableRange Marker on the display.65Page 68RadarEBL/VRM: nenuPlaces selected Elect increase/decrease the size of the VRM. Press Exit.EBL/VRM menuAdjustAdjusts size and location of active EBL/VRM.To adjust and press enter.3. Use the keypad to make adjustments to the EBL/VRM. Press Exit.Data BoxTurns on/off on screen EBL/VRM. informationbox. To turn on/off the EBL/VRM information box, highlight Data box on the EBL/VRM menu and press enter. 66Data boxPage 69RadarCursor position window When the cursor is active on screen the Cursor position window appears in the bottom left corner of the Radar page. Cursor position window appears in the bottom left corner of the Radar page. Cursor position window appears in the bottom left corner of the Radar page. Cursor position window appears in the bottom left corner of the Radar page. Cursor position window appears in the bottom left corner of the Radar page. Cursor position window appears in the bottom left corner of the Radar page. Cursor position window appears in the bottom left corner of the Radar page. Cursor position window appears in the bottom left corner of the Radar page. Cursor position window appears in the bottom left corner of the Radar page. Cursor position window appears in the bottom left corner of the Radar page. returns on top of the map on the Chart Page.That gives you greater awareness of yoursurroundings by allowing you to see radarreturns aligned with actual radar targets. More information on Radar Overlay is available in the Chart Operation section of this manual.67Page 70 RadarBlank page68Page 71 Settings Menu Provides by allowing you to see radarreturns aligned with actual radar targets. More information on Radar Overlay is available in the Chart Operation section of this manual.67Page 70 RadarBlank page68Page 70 RadarBlank page68 access to installation and advanced configurationsettings for your unit. To access the Settings menu, press Menu twice. Settings Menu OptionsSystemFuelVesselsPageAlarmsSimulatorChart (if applicable)Radar (if applicable)UnitsSonar (if applicable)NetworkSystemUsed to change system settings like units, languageand key beeps.To access the System menu:1. PressMenu twice.2. Highlight System and press enter.System MenuLanguage isEnglish.To select a language isEnglish.To select a language from the System menu and press enter.2. Highlight the desired language and press Enter. A window willappear indicating the unit must restart to switch languages.3. Select Yes and press enter. The unit will restart.Text SizeThis unit will display text in two sizes: Small andNormal. The Text Size from the System menu and press Enter.2. Use the keypad to select the desired text size and press enter. Key Beeps will sound whenany key is pushed on the unit. You can change key Beep menu. To change Key Beeps turned on 1. Highlight Key Beeps on the System menu and press enter. 2. Select the desired setting and press enter. Time used to change local time to offset differences in time zone and to select the waytime and date will be displayed. To set Time or Date format: 1. H ighlight Time on the System menu and press enter. 3. U se the keypad to select the desired format and press enter.4. Highlight OK and press enter.70 set Local Time on the Time menu and press enter.70 set Local Time on the Time unit's default datum is WGRS-84. To select a Datum: 1. Select Datum from the Chart settings menu and press enter. 2. Use the keypad to select the desired datum. Press Enter. Coord System from the Chart settings menu and press enter. settingsmenu and press enter.2. H ighlight the desired option and pressenter. Magnetic VariationConverts magnetic variation formation. The Magnetic VariationConverts magnetic variation formation. The Magnetic VariationConverts magnetic variation formation. magnetic variance. To change magnetic variation settings: 1. Highlight Magnetic Variation on the System menu. Press ENTER. 2. Select Auto or Manual and press enter. 71Page 74SettingsSatellite StatusSatellites in view and the quality of the unit's satellite lockon. The Satellite statusSatellite statusSatellite statusSatellite statusSatellites in view and the quality of the unit's satellite lockon. The Satellite statusSatellite statusSatellite statusSatellite statusSatellite statusSatellite statusSatellite statusSatellite statusSatellites. The Satellite statusSatellite statusSatellites. The Satellite statusSatellite statusSatellites. The Satellite statusSatellite statusSat screen displays a circular graphic that shows where satellites are located and a bar graph that monitors the strength of satellites shown with blue bars. To access the Satellites from the System menu and pressenter. 72Page 75SettingsScreen CaptureSaves images of your unit's screen to your unit. That allows you to capture images of everything from underwater structure and fish to routes, map areas and radartargets. To take a screen capture: 1. Select Screen Capture from the System menu and press enter. Press the LIGHT/Power key to capture the current screen. Repeatthis step take additional screen captures. To save screen captures to MMC/SD card:1. S elect Files from the Utilities list on the Pagesmenu. Press Enter.2. H ighlight My Files and press the keypad to theright. S elect the desired screenshots menu will appear.4. Select Copy and press enter. The Copy File menu will appear.Files selected onUtilities list5. Y our MMC/SD card will be listed on the screen. Select your MMC/SD card and press enter. You will be taken back to the list ofscreenshots. Repeat Steps 3-5 to copy more screenshots. Repeat Steps 3-5 to copy more screenshots. settings it had when you purchasedit (default settings), use the Restore Defaults command. ResetDefaults will reset the unit to default settings. To Restore Defaults: 1. H ighlight Restore Defaults on the System menu and press Enter. Aconfirmation message will appear. 2. Select Yes and press enter. The unit will reset the unit to default settings. To Restore Defaults will reset the unit will reset the unit will reset the unit to default settings. To Restore Defaults: 1. H ighlight Restore Defaults will reset the unit wil adjustment for advanced users that allows duplicate waypoint names, enables sticker backlight and slider hold off. Advanced Settings menu (Enabling Flywheel scroll dialsetting is available only on HDS-8/10-inch units.) To access Advanced
Settings menu (Enabling Flywheel scroll dialsetting is available only on HDS-8/10-inch units.) To access Advanced Settings menu (Enabling Flywheel scroll dialsetting is available only on HDS-8/10-inch units.) To access Advanced Settings menu (Enabling Flywheel scroll dialsetting is available only on HDS-8/10-inch units.) To access Advanced Settings menu (Enabling Flywheel scroll dialsetting is available only on HDS-8/10-inch units.) To access Advanced Settings menu (Enabling Flywheel scroll dialsetting is available only on HDS-8/10-inch units.) To access Advanced Settings menu (Enabling Flywheel scroll dialsetting is available only on HDS-8/10-inch units.) To access Advanced Settings menu (Enabling Flywheel scroll dialsetting is available only on HDS-8/10-inch units.) To access Advanced Settings menu (Enabling Flywheel scroll dialsetting is available only on HDS-8/10-inch units.) To access Advanced Settings menu (Enabling Flywheel scroll dialsetting is available only on HDS-8/10-inch units.) To access Advanced Settings menu (Enabling Flywheel scroll dialsetting is available only on HDS-8/10-inch units.) To access Advanced Settings menu (Enabling Flywheel scroll dialsetting is available only on HDS-8/10-inch units.) To access Advanced Settings menu (Enabling Flywheel scroll dialsetting is available only on HDS-8/10-inch units.) To access Advanced Settings menu (Enabling Flywheel scroll dialsetting is available only on HDS-8/10-inch units.) To access Advanced Settings menu (Enabling Flywheel scroll dialsetting is available only on HDS-8/10-inch units.) To access Advanced Settings menu (Enabling Flywheel scroll dialsetting is available only on HDS-8/10-inch units.) To access Advanced Setting flywheel scroll dialsetting is available on her advanced scroll dialsetting is available o right/leftarrow keys to open (-) or close (+) the setting.74Page 77SettingsTo adjust Waypoint, Hardware, Flywheel and Radar settings:1. H the desired cursor setting and press enter. A dialog boxwill appear.2. Use the arrow keys to select the desired value and press enter. About on the System menu and press enter. About Settings MenuContains Chart setting ranging from displayoptions like Range Rings and Grid Lines to mapsettings like Chart Data and Datum. To access the Chart Data This unit can use mapping data from Navico and Navionics. The Chart Data menu allows you toselect the desired map data (Navico 3D mappingdata available in US only). To select chart data: 1. H ighlight Chart Data on the Chart Settings menu and press enter. 2. S elect the desired map data and press enter RangeRings are placed a preset distance fromyour location, allowing you to quicklyestimate distances while navigating. To turn Range Rings On/Off, highlightRange Rings on the Chart Settings menuand press ENTER. Range arrival. The distance and estimated time of arrival is based on the time interval selected from the Heading Extension from the chart menu and pressenter. Select the desired time interval and press enter. NOTE: Range Rings and Heading Extension from the chart menu and pressenter. Extension may not beavailable in all chart data. Popup Information windows that appear when the cursor is centered on a point of information. That allows you to identify POIs without having press ENTER. Grid LinesGridlinesDisplays base values for latitude and longitude, making it easier to get a generalidea of your location on the latitude/longitude scale. To turn Grid Lines On/Off, select GridLines from the Chart Settings menu and Press ENTER. Waypoints are on the display, turning off waypoints will provide a better view of the map. To turn on/off waypoint display properties, select Waypoints from the Chart menu and pressENTER.77Page 80SettingsRoutesTurns on/off route display properties, select Routes from the Chart menu and pressENTER. Trails from the Chart menu and pressENTER. Hide Chart Removes mapping data from the display, turningoff routes will give you a better view of the map. To turn on/off trail display properties, select Trails from the Chart menu and pressENTER. Hide C making it easierto view routes, waypoints and the cursor. To turn on/off the map data, highlight Hide Chart on theChart Settings Menu is used to modify Sonar options and display settings Menu is used to modify Sonar Settings Menu is used to modify Sonar Settings Menu is used to modify Sonar Settings Menu is used to mode and Fishing Mode. To access a settings Menu is used to modify Sonar Settings Menu is used to modify Sonar Settings Menu is used to modify Sonar Settings Menu is used to mode and Fishing Mode. To access the settings Menu is used to modify Sonar Settings Menu is used to mode and press Menu is used to modify Sonar Settings Menu is used to mode and press Menu the Sonar Settings: 1. Press MENU twice. 2. Select Sonar and press ENTER. Sonar Source Selects the display unit that will be used for sonar data. Sonar Source allows youto view selected transducer data on every display unit that will be used for sonar data. twotransducers — one at the bow and one in the boat — you could viewsonar data from either transducer at the helm via the Sonar Source from the Sonar Sour press enter.Network SonarAllows your unit to send/receive data from another sonar unit on an ethernet network. To turn on/off network sonar, highlight Network sonar, highlight Network sonar on the Sonar Settings menuand press enter. Noise RejectionSonar signal interference from Bilge pumps, engine vibration, air bubbles, etc., can clutter yourunit's display. Noise Rejection counteracts sonarsignal interference by reducing onscreen clutter. To adjust Noise Rejection and press enter. 79Page 82SettingsSurface ClarityWave action, boat wakes and temperature inversion are some of the sources that cancause onscreen clutter near the surface Clarity reduces surface Clarity reduces surface Clarity from the Sonar Settings menu and pressENTER. Surface Clarity: 1. S elect Surface Clarity from the Sonar Settings menu and pressENTER. Surface Clarity from the Sonar Settings menu and pressENTER. Surface Clarity from the Sonar Settings menu and pressENTER. Surface Clarity from the Sonar Settings menu and pressENTER. Surface Clarity from the Sonar Settings menu and pressENTER. Surface Clarity from the Sonar Settings menu and pressENTER. Surface Clarity from the Sonar Settings menu and pressENTER. Surface Clarity from the Sonar Settings menu and pressENTER. Surface Clarity from the Sonar Settings menu and pressENTER. Surface Clarity from the Sonar Settings
menu and pressENTER. Surface Clarity from the Sonar Settings chart scrollsacross the screen. A slower scroll speed is best suited for ice fishing or fishing whileat anchor. It is also useful when you wantto record a higher quality sonar log in deep water. By default, Scroll Speed is set tonormal. To make adjustments, select Scroll Speed is set tonormal. To make adjustments and use the screen and use the screen adjustments and use the screen adjustments. Manual ModeAdvanced user mode that bypasses digital depth to give you greater control of pingsettings. Digital depth causes the unit to search for the bottom regardless of theportion of the water column you are targeting. While you still will get good resultsusing digital depth, it prevents you from getting optimum performance in certainsituations, like fishing for suspended targets. In Manual Mode the unit sends sonar signals (pings) only to the depth range setting will be reflected in your unit's pingspeed. That makes it easy to get the best scrolling speed and the best scrolling speed and the best scrolling speed and the best scrolling speed. and press ENTER to turn on/off Manual Mode.80Page 83Settings Fishing modes include: Color Palette, Sensitivity, Interference Rejection, Surface Clarity and Ping Speed, among others. Fishing modes allow you to spend more time fishing and less time adjusting settings. Fishing Mode OptionsGeneral UseBottom brown/white background; 50% ping speedShallow WaterBottom brown speed; 50kHz is primarytransducer frequencySlow TrollingBottom brown/white background; 50% ping speedFast TrollingBottom brown/white background; 50% ping speedBrackish WaterBottom brown/white background; 50% ping spee Water Fishing mode when fishing in lessthan 100 feet of water. Shallow Water Fishing Mode81Page 84SettingsTo select a Fishing Mode from the Sonar Settings menu and pressEnter. 2. Use the keypad to select the desired mode and press enter. Reset Fishing Mode from the Sonar Settings menu and pressEnter. 2. Use the keypad to select the desired mode and pressEnter. 2. Use the keypad to select the desired mode from the Sonar Settings menu and pressEnter. 2. Use the keypad to select the desired mode and press enter. Reset Fishing Mode from the Sonar Settings menu and pressEnter. 2. Use the keypad to select the desired mode and press enter. Shallow Water Fishing Mode from the Sonar Settings menu and pressEnter. 2. Use the keypad to select the desired mode and pressEnter. 2. Use the keypad to select the desired mode and pressEnter. 2. Use the keypad to select the desired mode and pressEnter. 2. Use the keypad to select the desired mode and pressEnter. 2. Use the keypad to select the desired mode and pressEnter. 2. Use the keypad to select the desired mode and pressEnter. 2. Use the keypad to select the desired mode and pressEnter. 2. Use the keypad to select the desired mode and pressEnter. 2. Use the keypad to select the desired mode and pressEnter. 2. Use the keypad to select the desired mode and pressEnter. 2. Use the keypad to select the desired mode and pressEnter. 2. Use the keypad to select the desired mode and pressEnter. 2. Use the keypad to select the desired mode and pressEnter. 3. Use the keypad to select the desired mode and pressEnter. 3. Use the keypad to select the desired mode and pressEnter. 3. Use the keypad to select the desired mode and pressEnter. 3. Use the keypad to select the desired mode and pressEnter. 3. Use the keypad to select the desired mode and pressEnter. 3. Use the keypad to select the desired mode and pressEnter. 3. Use the keypad to select the desired mode and pressEnter. 3. Use the keypad to select the desired mode and pressEnter. 3. Use the keypad to select the keypad to select the default General Use setting. Select Reset FishingMode from the Sonar Settings menu and press ENTER.Installation MenuControls unit settings like Keel Offset, WaterSpeed Calibration and Transducer Type onlyfor components (paddlewheel, temp sensor, transducer) connected to this display unitthrough the blue sonar connector. You can notadjust settings of network components through the Installation menu. To access the Installation menu, highlight Installation menu and press ENTER. Sonar Installation menu, highlight Installation menu and press ENTER. Sonar Installation menu and press ENTER. Sonar Installation menu, highlight Installation menu and press ENTER. Sonar Installation menu, highlight Installation menu, highlight Installation menu and press ENTER. Sonar Installation menu, highlight Installation menu and press ENTER. Sonar transducer to the keel offset to factor thosedistances into the unit's depth calculations. Transducer to the keel offset (-3.5 feet)Accounting for the distance from the transducer to the keel will prevent you from the transducer to the keel offset (-3.5 feet)Accounting for the distance from the transducer to the keel will prevent you from the transducer to the keel will prevent keel. Offsetting the distance from the transducer to the water surface will give you a more82Page 85Settingsprecise depth reading. Before setting keel offset that accounts for the distance from the transducer to the water surface, you will enter a positive number. If the transducer is 1.5 feet below the waterline, it will be input as +1.5 feet. That will give you a more precised epth reading. To set Keel Offset: 1. H ighlight the Keel Off desired keel offset. Select OK and pressenter. Water Speed Calibration When there are differences in speed data, Water Speed Calibration text box calibration text box calibration dialog boxfrom the Installation menu and press enter. The Water Speed Calibration keypad will appear. 2. U se the arrow keys to enter the percentage difference in speeddata. Select OK and press enter. NOTE: If the paddlewheel is reading a slower speed than the GPS unit, you will input a positive (+) percentage. Conversely, a negative (-) percentage will be entered if the paddlewheel isreading a faster speed than the GPS unit.83Page 86SettingsWater Speed AveragingAverages water speed by measuring your speed at a selected interval. Water speed han the GPS unit.83Page 86SettingsWater Speed AveragingAverages water speed by measuring your speed at a selected interval. Water Averaging interval :1. Highlight the Water Speed Averaging box on the Installation menu.2. Press the keypad left/right to select the desired interval.3. Highlight OK and press enter. Temperature calibration When there are differences in temperature calibration. another temperatures ource. That ensures the accuracy of temperature datafrom the selected temperature sensor. To calibrate Temperature Sensor. To calibrate temperature calibration dialog box 1. S elect the Temperature Sensor. To calibrate temperature calibration text box from the Installationmenu and press enter. The Water Temperature Calibration dialog box 1. S elect the Temperature Sensor. To calibrate temperature calibration text box from the Installation text box from text box enter the percentage difference betweentemperature sources. Select OK and press enter.NOTE: If the
temperature sensor is reading a highertemperature than the other temperature source. Temperature Averaging Averages temperature by measuring temperature data at a selected interval. Temperature will be averaged using measurements taken every five seconds. 84Page 87SettingsTo select a Temperature Averaging interval. Highlight the Temperature Averaging box on the Installation menu.2. P ress the keypad left/right to select the desired interval and pressenter. Reset Water Distance, resets water distance to zero. To reset water distance, reset water distance to zero. To reset water distance, reset water distance to zero. To reset water distance highlight Reset Water Distance and press ENTER. Transducer Type Selects the transducer Type: 1. Highlight Transducer Type: 1. Type box on the Installation menu and press enter. The Select Transducer type menu and press enter. The Select Transducer type and press enter. The Select Transducer type menu and press enter. The Select Transducer type menu and press enter. The Select Transducer type and press enter. The Select Transducer type menu and press enter. The Select Transducer type menu and press enter. The Select Transducer type and press enter. The Select Transducer type menu and press enter. The Select Transducer Radar settings menu: 1. Press menu twice. 2. Select Radar and press enter. Radar Settings MenuTarget Expansion Increases the size of radar targets, making them easier to see on the radar display. Toturn on/off Target Expansion, highlight Target Expansion, highlight Target Expansion, and press enter. Radar and press enter. Radar targets, making them easier to see on the radar targets, making them easier to see on the radar target Expansion. making it easier to monitor the direction and position of targets in relation of targets in relation of target Trails:1. H ighlight Target Target Trails:1. H ighlight Target Tar select the color that suits your viewing preferences. To change the Palette: 1. Highlight Palette on the Radar Settings menu and press enter. 2. U se the keypad to select the desired color PaletteWhite C vessel. Thatallows you to select a desired method for viewing your surroundings on the radardisplay. • ourse Up — map stays at same orientation as the top of the screen, regardlessHof the direction you are traveling. • North Up — North is always shown at the top of the screen. To change Map Orientation: 1. H ighlight Map Orientation on the RadarSettings menu and press enter. U se the keypad to select the desired option and press enter. ThresholdControls the level of radar returns. That allows you to unclutter the display byremoving unwanted signals. The zero percent setting allows all To make adjustments, select Threshold and press the keypad left/right.North Indicator from the Radar Settings menu and pressENTER.87Page 90SettingsRange RingsAllows you to quickly estimate the distance from your vessel to a another radar target. To turn on/off Range Rings, highlight RangeRings on the Radar Settings menu and pressENTER. Range markers display the distance from your position to each range ring. To turn on/off Range Rings, highlight RangeRings on the Radar Settings menu andpress ENTER. Compass A Compass overlay can be displayed on the background of the radar page. To turnon/off the Compass overlay turned offCompass overlay turned offCompas (R). T/M or True/Magnetic will show your direction based on magnetic north. R or Relative will show your direction based onyour relative heading.88Page 91SettingsTo set T/M or R:1. Press menu twice.2. Select Radar and press enter.3. Highlight Bearings and press enter.4. Use the arrows to select a bearing and press Enter.InstallationProvides access to the Radar Installation menu. Radar Installation menuTo access Radar Installation adjustment, range offset, antenna height and press ENTER. 3. Select Installation adjustment menu is used to make adjustment sto bearing alignment, range offset, antenna height and open array park angle.When the installation adjustment menu is accessed, press thekeypad up/down to select a feature. Press the keypad left/rightto make adjustments to a selected feature.Press Exit to return to the Radar Installation menu. To remove the Radar Installation menu. To remove the Radar Installation menu is accessed, press thekeypad up/down to select a feature.Press thekeypad up/down to select a feature.Press Exit to return to the Radar Installation menu. 92SettingsBearing alignmentUsed to align the bow of your vessel with the heading line (zero point). Bearing alignment is also referred to as zero bearing alignment, switch the radar state to Transmit and setradar orientation to Heading Up.To select Heading up orientation: 1.F rom the Radar Page, press MENU. 2.Select Orientation and press ENTER. 3.U se the keypad to select Heading Up and press ENTER. 4.P ress EXIT. After Bearing AlignmentBefore Bearing AlignmentBefore Bearing AlignmentBefore Bearing Alignment: 1. Lineup the bow of your vessel with a stationary target (lighthouse, pier, etc) at least 1 nm away2. S elect Adjust Bearing Alignment from the Radar Installation Adjustment menu will appear. 3. P ress the keypad left/right to rotate the radar image so the referencetarget is at 0° or 12 o'clock from the radar center. 90Page 93SettingsRange offsetEliminates the time lag between real radar returns and the time it takes data to beprocessed by the radar software. Range Offset is also referred to as zero range andtrigger delay.Range Offset is also referred to as zero range andtrigger delay.Range offset is also referred to as zero range and the time it takes data to beprocessed by the radar software. Range Offset is also referred to as zero range and the time it takes data to be processed by the radar software.

nm.2. H ighlight Adjust range offset from the Radar Installation menu and press ENTER. The installation adjustment menuwill appear.3. P ress the keypad to the left set range offset until thecircle disappears or almost disappears.5. If you increase th range offset too far, decrease it until the circleappears again. Antenna Height from the waterline to the Antenna height to prevent problems with the Sea Clutterfeature. To Adjust Antenna Height: 1. S elect Adjust Antenna Height from the Installation menu and pressenter.2. P ress the keypad left/right to input the distance from the antenna is turned off, the antenna's momentum will cause itto continue rotating before coming to a stop. Open array park angle allows you toadjust the antenna's parking angle so it will stop in a desired position. To Adjust Deen Array Park Angle: 1. S elect Adjust Bearing Alignment from the RadarInstallation menu will appear. 2. P ress the keypad left/right to enter a value that willcause the antenna to stop in the desired position. TuneYou should not have to adjust Tune for the life of this unit. This feature is intended for use by only trained technicians. Reset Radar to Factory Defaults Resets radar to factory default settings. 92Page 95Settings FuelUsed to input fuel data like engine/tank configuration, fuel tank capacity and engine calibration. Your unit uses that data to calculate the overall fuel performance of yourvessel. To access the Fuel menu, select Fuel from theSettings menu and press enter. Fuel menuRefuelControls engine calibrated with your fuel tanks to get correct readings onfuel economy, fuel used, etc. Amount AddedwindowAmountAdded textbox: Inputamount of fueladded hereSet to Fullcheckbox: Checkthis box when youfill up your tankRefuel menuIt is important to enter the amount of fuel added. That ensures the correct fuel data is used in the unit's fuel performancecalculations. To input fuel added. That ensures the correct fuel data is used in the unit's fuel performancecalculations. To input fuel added. press enter.2. U se keypad to select the Amount Added text box will appear.3. U se the keypad to input the amount of fuel added and pressenter.93Page 96SettingsTo set tank to full:1. H ighlight the Set to full checkboxon the Refuel screen and pressenter.2. H ighlight OK and press enter.The calibration options screen willappear. You areTank set to fullready to calibrate .70 calibrate options screen displayed, select the checkboxnext to the engine (s):1. W ith the calibration options screen 3. U se the keypad to highlight OK and press enter. The Calibration screen willappear. Calibrate options screen 3. U se the keypad to highlight OK and press enter. the Actual amount used window and press enter. 4. Input the amount of fuel used in the Actual amount used dialog boxand press enter. 5. H ighlight the Next button and press enter. 94Page 97SettingsFuel UsedData information screen that displays fuelconsumption data including fuel used on the currenttrip and fuel used on the currenttrip and fuel used during a season. To access fuel used from the Fuel menu and pressenter. Highlight the Reset button and pressenter to set corresponding fuel datavalues (trip and seasonal) to zero. Fuel used screenVessel SetupControls vessel configuration, which includes selecting the number of engines/fuel tanks and inputting the capacity of each fuel tank. Vessel Setup menu, highlight Vessel Setup on the Fuel menu and pressenter. Tank size textbox: inputtank size hereVesselconfigurationmenu: selectnumber of engines and fueltanks hereTank sizewindowCalibrationinfo button: getcalibrationinfo button: getcalibrationinfo button: getcalibrationinfo button: getcalibrationinfo button: getcalibrationinfo button: getcalibrationinfo button infohereVessel Setup95Page 98SettingsEngine/Tank ConfigurationUsed to input the number of engines and fueltanks on your vessel. Your unit must have that information to be able to calibrate you engine(s). To select engine-tank configuration:1. H ighlight the vessel configuration drop-downmenu and press enter. The Tank Size window and press enter. The Tank Size window and press enter. U se the keypad to input the size of theselected tank and press enter.3. R epeat Step 2 for each tank on yourvessel.4. S elect the Save button and pressenter. Calibrate Launches engine calibrate sensor's installationmanual.96Page 99SettingsAlarmsThis unit has alarms covering everything from depth and water temp rate to fuel andwaypoint radius. The alarms list has three tabs: Active, History and Settings. • Active — used to view alarms that have been enabled • History — s hows log of alarm activity, which includes data like whenalarms were triggered and when they were cleared • Settings — provides access to Alarms list, allowing you to enablealarms and set alarm limitsNOTE: Some alarms will not work unless a correspondingsensor is connected to the unit or the network. To enable/disable an Alarm: 1. Select the desired alarm from the alarms list and press enter. 2. Highlight Settings menu and press enter. 3. Select the desired alarm from the alarms list and press enter. 3. Select the desired alarm from the settings menu and press enter. 3. Select the desired alarm from the alarms list and press enter. 3. Select the desired alarm from the alarms list and press enter. 3. Select the desired alarm from the settings menu and press enter. 3. Select the desired alarm from the alarms list and press enter. 3. Select the desired alarm from the alarms list and press enter. 3. Select the desired alarm from the alarms list and press enter. 3. Select the desired alarm from the alarms list and press enter. 3. Select the desired alarm from the alarms list and press enter. 3. Select the desired alarm from the alarms list and press enter. 3. Select the desired alarm from the alarms list and press enter. 3. Select the desired alarm from the alarms list and press enter. 3. Select the desired alarm from the alarms list and press enter. 3. Select the desired alarm from the alarms list and press enter. 3. Select the desired alarm from the alarms list and press enter. 3. Select the desired alarm from the alarms list and press enter. 3. Select the desired alarm from the alarms list and press enter. 3. 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After alarm is silence the alarm window will appear on the screen. left corner of the screen. To remove the bell from the screen, disable the alarm and then enable it again. The bell will not reappear unless the screen alarm is triggered. Set LimitSets thresholds (limits) that will trigger the alarm and then enable it again. when that alarm is highlighted on the alarm limit.1. H ighlight the desired alarm limit.1. H ighlight the desired alarm threshold and Set limit selected on Waterpress enter. Temp Rate menuSiren EnabledWhen the Siren is enabled, a tone of the alarm threshold and Set limit selected on Waterpress enter. will sound when analarm is triggered. To enable alarm sirens, highlightSiren Enabled on the Alarms menu and pressENTER.98Page 101SettingsTrailsControls the way trails are logged (updated). Trails mark your movement as you travel, placing points along your path using one ofthree logging types: Time, Distance or Auto. You can save up to 10 trails with up to 9,999 points per trail. If a trail exceeds 9,999 points, each new point will overwrite a point at thebeginning of the trail. Trails MenuLogging TypeControls the method used for updated along the trail after a selected amount of timeDistanceA point is placed along the trail after you travel a selected distanceAutoA point is placed along the trails menu and press enter.2. Use the keypad to select Auto, Distance or Time and press enter.Distance PeriodControls how far you will travel before a point is placed along the trail. To set Distance Period and pressenter. The distance Period set to 1nm99Page 102SettingsTime PeriodControls how much time will pass before a point is placed along the trail. To set Time Period:1. H ighlight Time Period and pressenter. The distance period keypadwill appear.2. I nput the desired distance and selectOK. Press enter. Time Period set to 5 secondsUnitsControls the unit of measure used for a variety ofdata, ranging from distance and speed to heading andbarometric pressure. To access the Units menu, selectUnits from the Settings menu and press enter. To change a unit of measure: 1. S elect a unit from the Units menu. Pressenter. 2. S elect the a unit of measure and pressenter. 2. S elect the a unit of measure: 1. S elect a unit from the Units menu. Pressenter. 2. S elect the a unit of measure: 1. S elect the a unit of measure and pressenter. 2. S elect the a unit of measure and pressenter. 2. S elect the a unit of measure and pressenter. 2. S elect the a unit of measure and pressenter. 2. S elect the a unit of measure and pressenter. 2. S elect the a unit of measure and pressenter. 2. S elect the a unit of measure and pressenter. 2. S elect the a unit of measure and pressenter. 2. S elect the a unit of
measure and pressenter. 2. S elect the a unit of measure and presse ethernet) and network devices. To access the Network menu, select Network menu, select Network menu and press enter. Highlight Yes and press enter.Data SourcesAn advanced feature that allows you to usedata from a network data source or data from asensor connected to your unit. If, for example, you do not want to use yourunit's internal GPS antenna, you could use anexternal GPS antenna, you could use an external GPS ant Screen, highlight Data Sources on the Network menuand press enter. Data Source: 1. S elect a data source: 1. S elect a data source and press the keypad to the right. A list of sources will be displayed. 3. Highlight a desired data source and press the keypad to the right. enter.101Page 104SettingsData Source menuAllows you to change the name and scope of a source and press Menu.RenameUsed to rename a Data Source. That makes it easier to recognize onedata source from another when they are the same type of source. To Rename a data source: 1. Select Rename from the desired data source menu and press enter. NewAllows you to create a new instance of a data source: 1. Select Rename from the desired data source menu and press enter. NewAllows you to create a new instance of a data source menu. desired source menu and press enter. A keyboardwill appear.2. Input the name of the new instance, select OK and press enter. Remove from the Data Source Select Nemove list.ScopeControls the way data source settings are shared/not shared on an ethernet network.Scope lets you select a mode that allows data source settings (Local).Scope SettingsGlobalLocalData source settings will apply to all Data source setting source settings. 105SettingsTo select a scope: 1. H ighlight Scope on the selected device's data source menu and press enter. 2. Use the keypad to select a scope: 1. H ighlight Scope on the selected device's data source menu and press enter. 2. Use the keypad to select a scope: 1. H ighlight Scope on the selected device's data source menu and press enter. 2. Use the keypad to select a scope: 1. H ighlight Scope on the selected device's data source menu and press enter. 2. Use the keypad to select a scope: 1. H ighlight Scope on the selected device's data source menu and press enter. 2. Use the keypad to select a scope: 1. H ighlight Scope on the selected device's data source menu and press enter. 2. Use the keypad to select a scope: 1. H ighlight Scope on the selected device's data source menu and press enter. 2. Use the keypad to select a scope: 1. H ighlight Scope on the selected device's data source menu and press enter. 2. Use the keypad to select a scope: 1. H ighlight Scope on the selected device's data source menu and press enter. 2. Use the keypad to select a scope: 1. H ighlight Scope on the selected device's data source menu and press enter. 2. Use the keypad to select a scope: 1. H ighlight Scope on the selected device's data source menu and press enter. 2. Use the keypad to select a scope: 1. H ighlight Scope on the selected device's data source menu and press enter. 2. Use the keypad to select a scope: 1. H ighlight Scope on the selected device's data source menu and press enter. 2. Use the keypad to select a scope: 1. H ighlight Scope on the selected device's data source menu and press enter. 2. Use the keypad to select a scope: 1. H ighlight Scope on the selected device's data source menu and press enter. 2. Use the keypad to select a scope: 1. H ighlight Scope on the selected device's data source menu and press enter. 2. Use the keypad to select a scope: 1. H ighlight Scope on the selected device's data source menu and press enter. 2. Use the Reset Global will reset all the source selections to default settings and removes all instances on all networked HDS units. Reset Local is used to change all sources: 1. H ighlight Resset Global or Reset Local is used to change all source selections on your HDS units. Reset Local is used to change all source selections on your HDS unit from Local toGlobal. To reset global or local sources: 1. H ighlight Resset Global or Reset Local is used to change all source selections on your HDS units. Reset Local is used to change all source selections on your HDS units. Reset Global or Reset Local is used to change all source selections on your HDS units. Reset HDS units. and press enter. Device ListDisplays a list of devices connected to a NMEA 2000 network. From the Device ListTo access the devices and press enter. Device ListDisplays a list of devices connected to a NMEA 2000 network. From the Device ListTo access the device list, Select Device List from the Network menu and pressenter. Device MenuControls the way data is displayed on the Device list. Toaccess the Device Menu OptionsDetailsAccesses the Device Information screenRefreshRefreshes the device listSortAllows you to sort device list by Model ID or Serial No.Configuring Devices Devices have different configuration options. Name, tank size and location canbe configured on others. Somedevices like a fuel flow, can be calibrated from the device list. Device ListDevice ListDevice ConfigurationScreenTo configure a device name or device tank size:1. S elect a device from the device list and press enter. The DeviceInformation screen will appear. Highlight the Name or Tank Size text box and press enter. A keypadwill appear. U se keypad to input the desired information. Select OK and pressenter.NOTE: For more information on device configure button and press enter. The DeviceInformation screen will appear.2. H ighlight the Configure button and press enter. The DeviceConfiguration screen will appear.3. Highlight the Location dropdown menu and press enter.4. Select the desired location and press enter.4. Select the desired location and press enter.4. the devices list including Fluid Levels, FuelFlows and Trim Tabs. Every device that can be calibrate button on the Device Calibrate button instructions for afluid levelCalibrate buttonTo access calibration instructions:1. Select the desired device from the device list and press enter. Follow the onscreen calibration instructions.NOTE: For more information on device calibration, refer to the documentation that came with your device.105Page 108SettingsDiagnostics screen: UDBDiagnostics screen: NMEA 2000DiagnosticsDisplays diagnostic information on NMEA 2000 networks displays the status of normation shared between units (UDB). From the UDB tab, you also can select aunit to be used as the master (primary) unit when sharing information. To access the Diagnostics screen, select Diagnostics from the Network menu and press enter.NMEA 2000 receive/send waypointTurns on/off the unit's ability to send and receive waypoints over aNMEA 2000 receive waypoints over aNMEA 2000 receive/send waypointTurns on/off NMEA send/receive waypoint commands, highlight the desiredNMEA send/receive option and press enter.106Page 109SettingsSerial Ports configures communication ports to send or receive data with another electronicdevice, like an autopilot. To configure serial ports: 1. Highlight Serial Ports on the Network menuand press enter. The Serial Settingsmenu will appear.2. S elect the desired setting (Protocol, Communication Port 1 or Communication Port 2) and press enter. Serial settings menu4. Highlight OK and press enter. Serial settings menu4. Highlight OK and press enter. Serial settings menu4. transmit when communicating with other NMEA 0183 devices. Thedefault setting will work well under most conditions. To access NMEA 0183 Output from theNetwork menu and press enter. Highlight a desired sentence and pressenter to turn it on/off.3. To finalize changes, select OK and press enter. NMEA 0183 Output screen: 1. Select NMEA 0183 Output from theNetwork menu and press enter. Highlight a desired sentence and pressenter to turn it on/off.3. To finalize changes, select OK and press enter. NMEA 0183 Output screen: 1. Select NMEA 0183 Output from theNetwork menu and press enter. Highlight a desired sentence and pressenter to turn it on/off.3. To finalize changes, select OK and press enter. NMEA 0183 Output screen: 1. Select NMEA 0183 Output from theNetwork menu and press enter. NMEA 0183 Output screen: 1. Select NMEA 0183 Output screen: 1. Sele 0183 Output screen107Page 110Settings wenu and press enter. Vessels from theSettings menu and press enter. Vessels from theSettings wenu and press enter. Vessels from theSettings menu and press enter. Vessels from theSettings menu and press enter. Vessels from theSettings went to monitor vessels in yourarea with an AIS receiver. The Vessels from theSettings menu and press enter. Vessels from theSet input your MMSI number into the unit.
To input MMSI number: 1. Highlight MMSI on the Vessels menu and press enter. Use the keypad to input the MMSI number and press enter. Use the keypad to input the MMSI number and press enter. all vessels in the area around your vessels from the displayMovingDisplays vessels that are in motionDangerousShow only vessels that likely will be coming into closest point of approach) and TCPA (Time to closest point of approach) and TCPA (Time Vessels menu and press enter.2. U se the keypad to select the desired display setting and pressenter.108Page 111SettingsCourse ExtensionTo use Course Extension:1. Select Course Extension from the Vessels menu and press enter. 2. S elect the desired duration (1, 2, 10, 30, 60 or 120 minutes) and press enter. 109Page 112SettingsSimulatorAccesses all simulation types including defaultdemo and simulator modes as well as advanced custom simulations. To access the Simulator menu, highlight Simulatoron the Settings menu and press enter.Simulator menuSimulateTurns on/off your unit's simulation.To turn on the simulation, whether you are using the default mode or a custom simulation, whether you are using the default mode or a custom simulation. To turn on the simulator menu and press enter. Simulat with screens detailingsome of the unit's most popular features. To choose a Demo Mode from the Simulator menu and press enter. Use the keypad to select the desired mode and press enter. Advanced Allows you to set up a customized simulation menu and press enter. Advanced menu, select Advancedfrom the Simulator menu110Page 113SettingsSource Files Source Files Source Files allow you to use your own datawhile running a simulation. To select a source files Source Files allow you to use your own datawhile running a simulation menu1. H ighlight the desired source file option on the Advanced menu and pressenter.2. Use the keypad to select a source file and press enter.GPS Source:1. S elect GPS Source from the Advancedmenu and press enter.2. U se the keypad to select the desired source and press enter.2. U se the keypad to input Speed and Course from the Advanced menuand press enter.2. U se the keypad to input Speed and Course from the Advanced menuand press enter.2. U se the keypad to input Speed and Course from the Advanced menuand press enter.2. U se the keypad to input Speed and Course from the Advanced menuand press enter.2. U se the keypad to input Speed and Course from the Advanced menuand press enter.2. U se the keypad to input Speed and Course from the Advanced menuand press enter.2. U se the keypad to input Speed and Course from the Advanced menuand press enter.2. U se the keypad to input Speed and Course from the Advanced menuand press enter.2. U se the keypad to input Speed and Course from the Advanced menuand press enter.2. U se the keypad to input Speed and Course from the Advanced menuand press enter.2. U se the keypad to input Speed and Course from the Advanced menuand press enter.2. U se the keypad to input Speed and Course from the Advanced menuand press enter.2. U se the keypad to input Speed and Course from the Advanced menuand press enter.2. U se the keypad to input Speed and Course from the Advanced menuand press enter.2. U se the keypad to input Speed and Course from the Advanced menuand press enter.2. U se the keypad to input Speed and Course from the Advanced menuand press enter.2. U se the keypad to input Speed and Course from the Advanced menuand press enter.2. U se the keypad to input Speed and Course from the Advanced menuand press enter.2. U se the keypad to input Speed and Course from the Advanced menuand press enter.2. U se the keypad to input Speed and Course from the Advanced menuand press enter.2. U se the keypad to input Speed and Course from the Advanced menuand press enter.2. U se the keypad to input Speed and Course from the Advanced menuand press enter.2. U se the keypad to input Speed and Course from the Advanced menuand press enter.2. U se the keypad to in the desired value and pressenter.111Page 114SettingsRouteAllows you to select a route to be usedduring a simulation. To select a route: 1. S elect a route and press enter. A Route Listwill appear. 2. Use the keypad to select a route: 1. S elect a route in the Advanced menu and press enter. A Route Listwill appear. 2. Use the keypad to select the desired route and press enter. A Route Listwill appear. 2. Use the keypad to select a route: 1. S elect a route: 1. S elect a route in the Advanced menu and press enter. A Route Listwill appear. 2. Use the keypad to select a route: 1. S elect cursor position. To set start position: 1. H ighlight the Set Start Position button on the Advanced menu and press enter. Select the Set button and press enter. Select the Set button and press enter. Select the Set Start Position button on the Advanced menu and press enter. enter.112Page 115Unit CareSpecificationsGENERALCase Size:• HDS-5: 5.8" H x 7.3" W x 4" D (14.6 x 18.4 x10.2 cm), 2.30 lbs• HDS-7: 6.4" H x 8.8" W x 3.5" D (16.3 x 22.4x 8.8 cm), 3.10 lbsDisplay:• HDS-5: 5.0" (12.7 cm) diagonal high contrast16-bit color TFT, 640 x 480 pixel resolutionBacklighting: • HDS-5: Florescent (CCFL) backlit screen, LED backlit screen and keypad Depth capability: 5,000 ft dependent ontransducer configuration and installation, bottom composition and installation, bottom composition and installation and installation. depthrange and ping speedSurface water temperature: Available builtinto transducer or via external networkPaddlewheel speed log: Available withoptional speed log: Available withoptional speed log: Available builtinto transducer or via external networkPaddlewheel speed log: Available builtinto transducer or via external networkPaddlewheel speed log: Available withoptional speed log off• HDS-7: 0.8A at 13VDC with backlight on,0.4A with backlight offReceiver/antenna:• Built in 16 parallel channel internal antennas supported Compass Safe Distance: 20cm (8 inches)MMC slots: Built in 16 parallel channel internal antennas supported Compass Safe Distance: 20cm (8 inches)MMC slots: 20cm (8 inches) Two with waterproof doors. Onereads SD, MMC, and MMC+. One reads SDand MMC.Charting: Contains built-in Lowrance orNavionics basemap; Lowrance map and chart range, Navionics Basemap; Lowrance map and optional components. including sonar, GPS/navigation, battery voltage, weather, engine/transmission, tank level, AIS and DSC.Position updates: Every second with internal antennaChart scale: 50ft (20m) to 2,500 nauticalmiles (3,000 miles)Communications: NMEA 0183 input andoutput up to 38,400 baud, NMEA 2000, Navico EthernetStandards compliance:• Waterproofing: IPX6 and IPX7 with carddoor closed • EMC: IC RSS-310; FCC Part 15 Class B; IEC60945Built-in GPS recording capacity: 32MBinternal memory capacity: 32MBinternal memory capacity for up to 5,000user-definable waypoints, 10 tracks, and 200routesAudible alarms: Arrival, off-course, anchorBROADBAND SOUNDERFrequency: 50/200 kHz or 83/200 kHz Power output: 250W Peak to Peak to Peak to Peak to Peak to Peak analoge quivalent113NOTE: The above memory capacities refer only the unit's on-board memory. The amount of GPS and sonar data you canrecord and save for recall lateris only limited by the number of MMC cards you have. Page 116SpecificationsUnit CareDisplay• Cleaning the Screen — Warm water and soap will work fine. Youcan also use ammonia-type cleaners like Windex. Do not use any type of abrasive cleaners. They will remove the buttons - Make sure that no buttons are stuck in the down position. If one is stuck, wiggle the button to free it back to thenormal position.• Debris in the keyboard contacts — In case there is dirt orother debris covering the contacts inside the keypad, press down on thebutton in question and wiggle it to try to restore its function. Connectors • Clean the Clean sufficientpower from flowing to the unit. Clean the connections to be sure. Sometimes the substance is clear and not easily seen.114Page 117TroubleshootingIf your unit is not working, or if you need technical help, use the followingtroubleshootingIf your unit is not working. the power cable's connection at the unit.2. ake sure the power cable is wired properly. The red wireMconnects to the positive battery voltage at the unit's power connector.MYou will measure the two biggest pins. It should be at least10 volts. If it isn't, the wiring to the unit's power connector.MYou will measure the two biggest pins. It should be at least10 volts. If it isn't, the wiring to the unit's power connector.MYou will measure the two biggest pins. It should be at least10 volts. is defective, the battery terminals or wiring on the terminals are corroded, or thebattery needs charging. Unit freezes, locks up, or operates erratically1. lectrical noise from the boat's motor, trolling motor, or an Eaccessory may be interfering with the sonar unit. Rerouting the power and transducer cables away from other electricalwiring on the boat may help. Route the sonar unit's powercable directly to the battery instead of through a fuse blockor ignition switch.2. Inspect the transducer cable for breaks, cuts, or pinchedwires.3. heck the transducer and power connector. Make sure the transducer is pointing straight down like the Mfollowing image.2. If the transducer is mounted inside the hull, be sure it isshooting through only one layer of fiberglass, that it issecurely bonded to the hull, be sure it isshooting through only one layer of fiberglass, that it issecurely bonded to the hull and DOES NOT have air115Page 118Troubleshooting bubbles. (See the Installation Section for how to install thetransducer.) 3. hen attaching a transducer to the inside of a hull, ONLYWuse epoxy available from LEI (see inside back cover for order information).4. o NOT use RTV silicone rubber adhesive or any other typeDof epoxy. The LEI epoxy is specially formulated so that it willcure properly for shoot-through applications.5. Cleanthe face of the transducer. Oil, dirt and fuel
can causea film to form on the transducer, reducing its effectiveness.6. Electricalnoise from the boat's motor or trolling motor caninterfere with the sonar. This causes the unit to eliminate weaker signals such asfish and can display lines across the screen.7. he water may be deeper than the sonar's ability to find the Bottom. If the sonar can't find the bottom signal while it's inthe automatic mode, the digital sonar display will flash continuously. It may change the range to a realistic one, (forexample, 0-100 feet) and increase the sensitivity. As youmove into shallower water, a bottom signal should appear.8. heck the battery voltage drops, reducing its ability to find thebottom or targets. Bottom echo while boat is moving1. his is likely due to cavitation (turbulence) in the water surTrounding the transducer. You may need to move the transducer cannot send or receive signals through air bubbles.2. lectrical noise from the boat's motor or trolling motorEcan interfere with the sonar. This causes the sonar toautomatically increase its discrimination or noise rejection feature. This can cause the unit to eliminate weaker signals or routing the sonar unit's power and 116 Page 119 Troubleshooting transducer cables away from other electrical wiring on the boat. 3. hen trolling over menu and set the depth range for thedepth you are in such as 0-20 feet.4. It can sometimes be difficult for a high-powered unit to capture the lightning-fast return in shallow water. Turn off theautomatic sensitivity setting and manually reduce the sensitivity setting and manually redu operating at the same time, one or more of them may lose thedepth reading due to the interference. It is like two radio stations trying to both broadcast on 97.3FM. In shallow water, if the transducers are far enough apart, you may be able tooperate them together. However, the deeper the water, thewider the beams spread out. When they cross each other, the interference occurs. No fish arches when Fish I.D. is turned off1. If you are using a transom-mounted transducer may prevent a fish arch from displaying properly. If the arch is shown, the nose of the transducer is angled too low and needs to be raised. This is themost common problem if a partial arch is displayed.2. he sensitivity may not be high enough, the unit shows the fish only when it is in the center of the cone.3. se the Zoom feature. It is much easier to display fish archUes when zoomed in on a small range of water than a largeone. If your boat is in water deeper than 20ft, try setting the upper and lower limits to a 20ft depth section, such as 40ft117Page 120Troubleshooting to 60ft or whatever depth you expect the fish to appear at. This will maximize the screen resolution to show small objects larger on the screen. It unlikely you will see averagesized fish display as arches in a 100ft deep water column.4. he boat must be moving at a slow trolling speed to see This is motionless, fish stay in the cone and show as horizontal lines on screen. This is motionless at a slow trolling speed to see This is motionless. especiallyapplicable to ice fishing.1. major cause of sonar problems is electrical noise. ThisAusually appears on the sonar's display as random patternsof dots, or cause the unit to operate erratically, or not at all.2. o eliminate or minimize the effects of electrical noise, Ttry to the cause. With the boat at rest in the water, turn all electrical equipment on the boatoff including the engine. Turn on your sonar unit. Sensitivity should be set at 70-75 percent. There should bea steady bottom signal on the display. Now turn on eachpiece of electrical equipment on the boat and view the effecton the sonar's display. If you find noise interference is from an electrical instrument, trolling motor, pump, or radio, you can usually reroute the sonar unit's power cable and transducer cable away from it. You may need to route thesonar unit's power cable directly to the battery to isolate itfrom other wiring on the sonar unit from electrical equipment, then make sure everything except the sonar unit isturned off, then start the engine. Increase the RPM withthe gearshift in neutral. If noise appears on the display, theproblem could be one of three things; spark plugs, alternator, or tachometer wiring. Try using resistor spark plugs, alternator filters, or routing the sonar unit's power cable awayfrom engine wiring the power cable to the battery. Noise118Page 121Troubleshooting5. hen no noise appears on the sonar unit after all of the Wabove tests, then the noise source is probably cavitation. Many people make sonar installations which function is the location and/orangle of the transducer. The face of the transducer must beplaced in a location that has a smooth flow of water at allboat speeds. Read your transducer owner's manual or theInstallation instructions in this manual for the best mountingposition. GPS Not Accurate1. owrance Electronics obtains its mapping data from govLernment agencies. Mapping is not an exact science. A unit's GPS position (Latitude/Longitude) can be extremely accurate, but the location of a cartographic item such as a street, highway, or point-of-interest may be slightly inaccurate. Inmost cases, we have found the mapping detail in our products to be very accurate. Inmost cases, we have found the mapping detail in our products to be very accurate. products are designed to be aids to navigation and not the sole means of your position could look different at various Tzoom ranges. For example, at a 5 mile range, the cursor representing your position may appear to be in the center of a highway your are driving on. However, if you zoom into a much closer .1 mile range, the position may appear offcenter due to the variables mentioned above.3. ry this simple method to verify that the GPS receiver inTyour unit is accurate. Have your unit is accurate. Have your unit lock onto GPS positionin a known location like your driveway, boat slip, or campsite. Save that location in the unit as a waypoint. Now travel away from the known location. Stop and recall the savedwaypoint in the unit. Select GO TO to start the unit navigating back to that location. When you arrive at yourwaypoint, the Distance To Go should be close to 0.119Page 122TroubleshootingCards not Read by Unit1. efore purchasing a pre-loaded mapping card for a unit, Bgo to our Mapping Index at Click on the type of card you areinterested in and look at the list of units that are compatiblewith that card.2. hen zooming in to see more detail, be sure the cursor isWlocated within the area covered by the mapping card.3. In the Chart menu, select Chart Options and then ChartCategories. Make sure all the card is not recognized by the unit, make sure the cardcontacts and corresponding unit pins are clean and free of bstructions. Verify that the card is securely seated in thecard port.5. If it is a card for a MapCreate map or saved GPS data, itmay need to be formatted. Do not format pre-loaded cardssuch as Nautic-Path, Fishing Hot Spots Pro, Lake MasterPro, Freedom Maps, or Navionics. The information will bedeleted from the card. Please be aware that Lowrance GPS products will only read cards that are FAT formatted. MMCcards formatted using FAT 32 or NTFS will not work withour products. Current Position not on the screen. Then check forcross-hairs on the screen (or for an automotive unit, a redbox with an X). If this is on the screen, it means that you hadpressed one of the arrow buttons. If that is the case, the unitthinks that you want to scroll to a location on the screen orzoom in or out to see more detail. Press the EXIT button toclear the crosshairs and your current position, the GPS receiver mustT"lock" onto at least 3 GPS satellites. For the best signal reception, an external GPS antenna/receiver should be located where it can receive as many signals as possible. There120Page 123Troubleshootingshould be nothing around or above the antenna. However, GPS antenna/receiver signals well through many types of glass and fabric. It is recommended to try various locations before making a permanent installation.3. If you are using a NMEA 2000 network, both branches of thepower cable with red and black wires need to be connected to a 12volt power is reaching theGPS receiver. Also, check the power to the blue connectornetwork and the red connector network.Update the Software Version. Go to the S applies to the model you own. Try a Soft Reset first, this will returnyour settings to factory defaults. If you decide to try a Hard Reset, saveany important stored data to an MMC or SD card or write the informationdown. The data will be deleted during this process. Radar won't Start UpIf the radar, does not start up, try the following steps: 1. Verify head unit has the latest code that supports radar.2. Verify that the communication port is set to RADAR3. urn the unit, radar and network off, then turn everythingTback on. On power up the Radar should start initializing. Change over to the Radar should start initializing. countdown: allow it to complete andthen try to power on the Radar. If the Radar does notstart rotating then the Radar will need to be sent in forservice. b. If you are NOT getting a countdown, press MENU, select RADAR INFORMATION and press ENT.121Page 124TroubleshootingHighlight FORCE STATUS UPDATE and press ENT.Pay attention to the RX/TX buttons. c. If the TX is not lighting up then either you do not have the Com Port is set properly, if it is then the Lowrance unit is defective. Verify that the Com Port is set properly, if it is then the RIM, the processor or the Radar. There is a fuse inside the processor thathas more than likely blown. Remove the front left blackscrew, then remove the grounding post on the left side of the board. Thisfuse is very tight and difficult to remove, you may need to use a pair of pliers to get a good grip on it and gentlytry to pull it out. Replace the fuse, the faceplate, and the screws,
making sure that the front face is securely and all information fields are properly displayed on the "radar information" page, but the unit starts to warm up but you never see acount down to standby on the screen and then radar communication is lost after one minute. The voltage supply to the Radar Antenna or the gauge wire supplying the voltagemay be to small.122Page 125IndexIndexSymbols2D and Shaded Relief 56Cursor 7Cursor coordinates 40Cursor position window 67ADAdd Dashboard 22Add Source 16Adjust 66, 90, 91, 92Alarm 97Amplitude Scope 35Antenna Height 91Auto Gain 62Data menu 19Data Overlay 12Edit Mode 13Data Sources 101Datum 71Depth Line 35Device List 103Device Menu 103BBacklight 7Bearing alignment 90Bearings 88Bezel 16Bottom Lock 32CCaption 16Center 64Change Layout 22Chart categories 56Chart menu 40Chart orientation indicator 40Chart Page 17Chart Settings Menu 76Chart Speed 80Clear Trails 63Closing Menus 8Colorline 31Compass 88, 113Configuration menu 16Configuration menu 12Edit Waypoint menu 45Engine/Tank Configuration 95Entering Data 9Ethernet 113ENET 113FFish depths 36Fish ID 36Fish symbols 36Flasher 32Frequency 31, 113Fuel 93Fuel Used 94Gauge Type 14Grid Lines 77123Page 126IndexHMoving a Gauge 13Harbor 63Heading Extension 76Heading Up 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ReservedNavico Holding AS Page 2 125IndexRadar menu 61Radar new waypoint 66Radar Overlay 67Radar State 62Range 31Range Markers 88Range offset 91Range Rings 88Refuel 93remove dashboard 23remove source data 16Reset Fishing Mode 82Reset Water Distance 85Restore Defaults 50navigate 50remove waypoints 50navigate 50remove dashboard 23remove data 16Reset Fishing Mode 82Reset Water Distance 85Restore Defaults 10Routes 71Screen Capture 72Sea ClutterHarbor 63Manual 63Offshore 63Search by coordinates 54Select info page data 21Selecting Pages 11Sensitivity 30Serial Ports 107Shaded Relief 56Size 14SoftkeysColorline 31Frequency 31Radar new waypoint 66Radar State 62Range 31Sensitivity 30Split 31Stop Sonar 32Symbology 65Sonar History 29Sonar Menu 30Sonar Page 17, 29Sonar palette 34Sonar Settings Menu 79Sonar Source 79Specifications 113Split 31Start Logging 37stop logging 38Surface Clarity 80Symbology 65System 69TTarget Expansion 86Target Trails 86Temperature Averaging 84Temperature Calibration 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loca-tions before making a permanent installation. If you are using a NMEA 2000 network, both branches of the 3. power cable with red and solid. Check to be sure power is reaching the GPS receiver. Also, check the power to the blue connector network and the red connector network. Make sure your unit has the latest software version. Go to the software version. We can download updates for free. Sometimes resetting your unit can solve unusual issues. model you own. Try a Soft Reset rst, this will return your settings to factory defaults. If you decide to try a Hard Reset, save any important stored data to an MMC or SD card or write the information down. The data will be deleted during this process. If the radar, does not start up, try the following steps: Verify head unit has the latest code that supports radar. 1. Verify that the communication port is set to RADAR2. Turn the unit, radar and network off, then turn everything 3. back on. On power up the Radar should start initializing. Change over to the Radar Page and see if the unit is initial-izing or giving the count down indication. a. If you are getting a countdown: allow it to complete and then try to power on the Radar. If the Radar does not start rotating then the Radar will need to be sent in for service. b. If you are NOT getting a countdown, press ENT. Radar won't Start UpReset the UnitUpdate the SoftwarePage 5119Troubleshooting When no noise appears on the sonar unit after all of the 5. above tests, then the noise source is probably cavitation. Many people make sonar installations which function per-fectly in shallow water, or when the boat is at rest. In most cases, the cause of the transducer. The face of the transducer must be placed in a location that has a smooth ow of water at all boat speeds. Read your transducer owner's manual or the Installation instructions in this manual for the best mounting position. Lowrance Electronics obtains its mapping data from gov-1. ernment agencies. Mapping is not an exact science. A unit's GPS position (Latitude/Longitude) can be extremely accu-rate, but the location of a cartographic item such as a street, highway, or point-of-interest may be slightly inaccurate. In most cases, we have found the mapping detail in our products to be very accurate. We encourage the reporting of inaccurate in our products are designed to be aids to navigation and not the sole means of navigation. A prudent navigator will also have several items necessary for safe navigation. The accuracy of your position may appear to be in the center of a highway your are driving on. However, if you zoom into a much closer .1 mile range, the position may appear off-center due to the variables mentioned above. Try this simple method to verify that the GPS
position in a known location like your unit is accurate. Have your unit is accurate. Have your unit is accurate away from the known location. Stop and recall the saved waypoint in the unit. Select GO TO to start the unit navigating back to that location. When you arrive at your waypoint, the Distance To Go should be close to 0.GPS Not AccuratePage 6117Troubleshootingtransducer cables away from other electrical wiring on the boat. When trolling over weed beds in 20ft of water or less, you 3. may experience vertical bars, loss of the chart picture, or the digital depth. First, do a soft reset of the unit. Then go to the Full Sonar Chart screen. Press Menu and select So-nar Features. Now turn the Chart Manual Mode to On. This will leave everything over weed beds in 20ft of water or less, you 3. may experience vertical bars, loss of the chart picture, or the digital depth. in Automatic Mode except depth. Now go back to the main menu and set the depth range for the depth range for the depth you are in such as 0-20 feet. It can sometimes be difcult for a high-powered unit to cap-4. ture the lightning-fast return in shallow water. bottom. If two or more sonar units using the same frequency are op-5. erating at the same time, one or more of them may lose the depth reading due to the interference. It is like two radio sta-tions trying to both broadcast on 97.3FM. In shallow water, if the transducers are far enough apart, you may be able to operate them together. However, the deeper the water, the wider the beams spread out. When they cross each other, the interference occurs. If you are using a transom-mounted transducer may prevent a sh arch from displaying properly. If the arch slopes up but not down, then the front of the transducer may prevent a sh arch from displaying properly. If the arch slopes up but not down, then the from displaying properly. If the arch slopes up but not down, then the from displaying properly. half of the arch is shown, the nose of the trans-ducer is angled too low and needs to be raised. This is the most common problem if a partial arch, it has to be able to receive the sh's echo from the time it enters the cone until it leaves. If the sensitiv-ity is not high enough, the unit shows the sh only when it is in the center of the cone. Use the Zoom feature. It is much easier to display sh arch-3. es when zoomed in on a small range of water than a large one. If your boat is in water deeper than 20ft, try setting the upper and lower limits to a 20ft depth section, such as 40ft No sh arches when Fish I.D. is turned offPage 7115TroubleshootingIf your unit is not working, or if you need technical help, use the following troubleshooting section before contacting the unit.1. Make sure the power cable is wired properly. The red wire 2. connects to the positive battery terminal, black to negative or ground. Check the fuse. 3. Measure the battery voltage at the unit's power connector. 4. You will measure the two biggest pins. It should be at least 10 volts. If it isn't, the wiring to the unit is defective, the battery needs charging. Electrical noise from the boat's motor, trolling motor or an 1. accessory may be interfering with the sonar unit. Rerouting the power and transducer cables away from other electrical wiring on the boat may help. Route the sonar unit's power cable directly to the battery instead of through a fuse block or ignition switch. Inspect the transducer cable for breaks, cuts, or pinched 2. wires. Check the transducer and power connector. Make sure it's 3. securely plugged into the unit. Make sure it is 2. shooting through only one layer of berglass, that it is securely bonded to the hull, be sure it is 2. shooting Unit won't turn onUnit freezes, locks up, or operates erraticallyWeak bottom echo, erratic readings or no sh returnsPage 8113Unit CareSpecicationsGENERALCase Size: HDS-5•: 5.8" H x 7.3" W x 4" D (14.6 x 18.4 x 10.2 cm), 2.30 lbs HDS-5•: 5.8" H x 7.3" W x 4.5" D (12.7 cm) diagonal high contrasticallyWeak bottom echo, erratic readings or no sh returnsPage 8113Unit CareSpecicationsGENERALCase Size: HDS-5•: 5.8" H x 7.3" W x 4.5" D (16.3 x 22.4 x 8.8 cm), 3.10 lbsDisplay: HDS-5•: 5.0" (12.7 cm) diagonal high contrasticallyWeak bottom echo, erratic readings or no sh returnsPage 8113Unit CareSpecicationsGENERALCase Size: HDS-5•: 5.0" (12.7 cm) diagonal high contrasticallyWeak bottom echo, erratic readings or no sh returnsPage 8113Unit CareSpecicationsGENERALCase Size: HDS-5•: 5.0" (12.7 cm) diagonal high contrasticallyWeak bottom echo, erratic readings or no sh returnsPage 8113Unit CareSpecicationsGENERALCase Size: HDS-5•: 5.0" (12.7 cm) diagonal high contrasticallyWeak bottom echo, erratic readings or no sh returnsPage 8113Unit CareSpecicationsGENERALCase Size: HDS-5•: 5.0" (12.7 cm) diagonal high contrasticallyWeak bottom echo, erratic readings or no sh returnsPage 8113Unit CareSpecicationsGENERALCase Size: HDS-5•: 5.0" (12.7 cm) diagonal high contrasticallyWeak bottom echo, erratic readings or no sh returnsPage 8113Unit CareSpecicationsGENERALCase Size: HDS-5•: 5.0" (12.7 cm) diagonal high contrasticallyWeak bottom echo, erratic readings or no sh returnsPage 8113Unit CareSpecicationsGENERALCase Size: HDS-5•: 5.0" (12.7 cm) diagonal high contrasticallyWeak bottom echo, erratic readings or no sh returnsPage 8113Unit CareSpecicationsGENERALCase Size: HDS-5•: 5.0" (12.7 cm) diagonal high contrasticallyWeak bottom echo, erratic readings or no sh returnsPage 8113Unit CareSpecicationsGENERALCase Size: HDS-5•: 5.0" (12.7 cm) diagonal high contrasticallyWeak bottom echo, erratic readings or no sh returnsPage 8113Unit CareSpecicationsGENERALCase Size: HDS-5•: 5.0" (12.7 cm) diagonal high contrasticallyWeak bottom echo, erratic r 16-bit color TFT, 480 x 480 pixel resolution HDS-7•: 640 x 480 pixel resolution Backlight HDS-5•: 6.4" (16.3 cm) diagonal high contrast 16-bit color TFT, 640 x 480 pixel resolution Backlight HDS-5•: 0.7A at 13VDC with backlight on 0.4A with backlight off HDS-7 •: 0.8A at 13VDC with backlight on, 0.4A with backlight on, 0.4A with backlight offOperating temperature: -15°C to 55°C (5°F to 130°F)MMC slots: Two with waterproof doors. One reads SD and MMC+. One reads SD and MMC+. sonar, GPS/naviga-tion, battery voltage, weather, engine/trans-mission, tank level, AIS and DSC.Communications: NMEA 0183 input and output up to 38,400 baud, NMEA 2000, Navico EthernetStandards compliance: Waterproong: IPX6 and IPX7 with card • door closed EMC: IC RSS-310; FCC Part 15 Class B; • IEC60945BROADBAND SOUNDERFrequency: 50/200 kHz or 83/200 kHz or 83/200 kHz Power output: 250W Peak to Pe depth range and ping speedSurface water temperature: Available built into transducer or via external networkPaddlewheel speed log: Available with optional speed log: Available built into transducer or via external antennas supported via • NMEA 0183 and NMEA 2000Satellite DGPS: WAAS, EGNOS, MSAS supportedCompass Safe Distance: 20cm (8 inches)Charting: Contains built-in Lowrance or Navionics Gold, Platinum, and P (20m) to 2,500 nautical miles (3,000 miles) Built-in GPS recording capacity: 32MB internal memory capacity for up to 5,000 user-denable waypoints, 10 tracks, and 200 routes Audible alarms: Arrival, off-course, anchorNOTE: The above memory capacity for up to 5,000 user-denable waypoints, 10 tracks, and 200 routes Audible alarms: Arrival, off-course, anchorNOTE: The above memory capacity for up to 5,000 user-denable waypoints, 10 tracks, and 200 routes Audible alarms: Arrival, off-course, anchorNOTE: The above memory capacity for up to 5,000 user-denable waypoints, 10 tracks, and 200 routes Audible alarms: Arrival, off-course, anchorNOTE: The above memory capacity for up to 5,000 user-denable waypoints, 10 tracks, and 200 routes Audible alarms: Arrival, off-course, anchorNOTE: The above memory capacity for up to 5,000 user-denable waypoints, 10 tracks, and 200 routes Audible alarms: Arrival, off-course, anchorNOTE: The above memory capacity for up to 5,000 user-denable waypoints, 10 tracks, and 200 routes Audible alarms: Arrival, off-course, anchorNOTE: The above memory capacity for up to 5,000 user-denable waypoints, 10 tracks, and 200 routes Audible alarms: Arrival, off-course, anchorNOTE: The above memory capacity for up to 5,000 user-denable waypoints, 10 tracks, and 200 routes Audible alarms: Arrival, off-course, anchorNOTE: The above memory capacity for up to 5,000 user-denable waypoints, 10 tracks, and 200 routes Audible alarms: Arrival, off-course, anchorNOTE: The above memory capacity for up to 5,000 user-denable waypoints, 10 tracks, and 200 routes Audible alarms: Arrival, off-course, anchorNOTE: The above memory capacity for up to 5,000 user-denable waypoints, 10 tracks, and 200 routes Audible alarms: Arrival, off-course, anchorNOTE: The above memory capacity for up to 5,000 user-denable waypoints, 10 tracks, and 200 routes Audible alarms: Arrival, and 200 routes Audible alarms: Arriv save for recall later is only limited by the number of MMC cards you have. Page 9 111 Settings Source les used in radar, sonar, AIS (Chart) and Weather simulation. To select a source les allow you to use your own data while running a simulation. ENTER. Use the keypad to select a source le and press 2. ENTER. GPS Source from the Advanced menu and estimated course or simulated course or simulated course or simulation. That allows you to use navigation data from sonar, radar, simulated course or simulated course ENTER. Use the keypad to select the desired 2. source and press ENTER. Speed and Course from the Advanced menu and press ENTER. Use the keypad to input the desired value and press 2. ENTER. GPS Source menuSource File menu Page 10 109SettingsCourse Extension from the Vessels menu and press ENTER. Select the desired duration (1, 2, 10, 30, 60 or 120 minutes) and 2. press ENTER. Course Extension Page 11 108Settings used to monitor vessels in your area with an AIS receiver. The Vessels feature
makes it easier to navigate safely through high trafc areas. To access the Vessels menu, select Vessels from the Settings menu and press ENTER. MMSI (Maritime Mobile Service Identity)Used to input your MMSI number into the unit. To input MMSI number: Highlight 1. MMSI on the Vessels menu and press ENTER. DisplayAllow you to select what vessels will be shown on the display. That helps you customize the screen so you can view only desired vessels. Display optionsAll Displays all vessels in the area around your vessels from the displayMoving Displays vessels that are in motionDangerousShow only vessels that are in motionDangerousShow on the motion select a Display option: Select 1. Show on the Vessels menu and press ENTER. Use the keypad to select the desired displays diagnostic information on NMEA 2000 networks displays the status of information shared between units (UDB). From the UDB tab, you also can select a unit to be used as the master (primary) unit when sharing information. To access the Diagnostics from the Network menu and press ENTER. NMEA 2000 receive/send waypoint controls the unit's ability to receive waypoints over a NMEA 0183 network. To turn on/off NMEA send/receive waypoint turned onDiagnostics screen: NMEA 2000 receive waypoint turned onDiagnostics screen: UDB Page 13 104SettingsDevice Menu OptionsDetails Accesses the Device Information screenRefresh Refreshes the device listSort Allows you to sort devices like a fuel ow, can be calibrated from the device list. To congure a device name or device tank size: Select a device from the device list and press 1. ENTER. The Device Information screen will appear. Highlight the 3. Name or Tank Size text box and press ENTER. A keypad will appear. Use keypad to input the desired information. Select 4. OK and press ENTER. Device List Device Information ScreenDevice Conguration screenNOTE: For more information on device. Page 14102SettingsData Source and add/remove sources from a NMEA 2000 or ethernet network. To access a Data Source menu, highlight a desired source and press MENU. Rename used to rename a Data source from another when they are the same type of source. To Rename a data source menu, highlight a desired data source menu and press ENTER. A keyboard will appear. Input the desired name and select 2. OK and press ENTER. NewAllows you to create a new instance. Select 1. New from the desired source menu and press ENTER. Remove Removes an instance from the Data Source Select list. To remove an instance, select Remove from the desired data source settings are shared/not shared on an ethernet network. Scope lets you select a mode that allows data source settings to be shared by HDS units on an ethernet network. (Global). You can also select a mode that allows each HDS unit to have individual data source settings (Local). Scope SettingsGlobal LocalData source settings will apply to all HDS units on an ethernet network. Data source settings will apply to all HDS unit to have individual data source settings will apply to all HDS unit to have individual data source settings. setting. Data Source menuPage 15 100SettingsTime Period Controls how much time will pass before a point is placed along the trail. To set Time Period keypad will appear. Input the desired distance period keypad will appear. Input the desired distance period keypad will appear. data, ranging from distance and speed to heading and barometric pressure. To access the Units menu, select Units from the Settings menu and press 1. ENTER. Select the a unit of measure and press 2. ENTER. Time Period set to 5 seconds Page 16 98SettingsTo silence an alarm. When an Alarm is triggered, a tone will sound and a alarm window will appear on the screen. Press ENTER to silence the alarm and then enable it again. The bell will not reappear unless the alarm is triggered. Set Limit button will appear at the bottom of the screen when that alarm is highlighted on the alarm list. To set alarm limit: Highlight the desired alarm on the alarm 1. screen and press MENU. Select 2. Set Limit and press ENTER. The Alarm Limit keypad will appear. Input the desired alarm threshold and 3. press ENTER. Siren Enabled on the Alarms menu and press ENTER. Set limit selected on Water Temp Rate menu Page 1799SettingsTrailsControls the way trails are logged (updated). Trails mark your movement as you travel, placing points along your path using one of three logging types: Time, Distance or Auto. You can save up to 10 trails with up to 9,999 points, each new point will overwrite a point at the beginning of the trail. Logging TypeControls the method used for updating a trail. Trails can be updated using Time, Distance or the default automatic setting. Logging TypeSimeA point is placed along the trail after you travel a selected distanceAutoA point is placed along the trail every time you change directionTo select a Logging Type on the Trails menu and press ENTER. Use the keypad to select 2. Auto, Distance period: Highlight 1. Distance Period and press ENTER. The distance period keypad will appear. Input the desired distance and select 2. OK. Press ENTER. Trails MenuDistance Period set to 1nmPage 18101SettingsNetworkControls network conguration, data sources, serial port settings, waypoint sharing and allows you to monitor network performance (NMEA 2000 and ethernet) and network devices. To access the Network menu, select Network menu and press ENTER. Auto Conqure Resets all Data Sources to default settings and removes all instances on networked HDS units. To auto conqure a network: Select 1. Auto Conqure from the Network menu, and press ENTER. Highlight 2. Yes and press ENTER. Data SourcesAn advanced feature that allows you to use data from a network data source or data from a sensor connected to your unit's internal GPS antenna, you could use an external GPS antenna, you could use an external GPS antenna connected to your unit's internal GPS antenna, you could use an external GPS antenna connected to your unit's internal GPS antenna, you could use an external GPS antenna, you could use an external GPS antenna connected to your unit's internal GPS antenna, you could use an external GPS antenna connected to your unit's internal GPS antenna, you could use an external GPS antenna connected to your unit's internal GPS antenna connected to your unit's internal GPS antenna, you could use an external GPS antenna connected to your unit's internal GPS antenna connected to your unit's internal GPS antenna connected to your unit's internal GPS antenna, you could use an external GPS antenna connected to your unit's internal GPS antenna connected to your unit's interna conected to your unit's inte Screen, highlight Data Sources on the Network menu and press ENTER. To select a data source: Select a data source and press the keypad to the right. A list of sources will 2. be displayed. Highlight a desired data source and press 3. ENTER. Network menuData Source Selection ScreenPage 19 103SettingsTo select a scope: Highlight 1. Scope on the selected device's data source menu and press ENTER. Use the keypad to select 2. Global or Local and press ENTER. Use the keypad to select a scope: Highlight 1. Scope on the selected device's data source menu and press ENTER. Use the keypad to select 2. Global or Local and press ENTER. Use the keypad to select a scope: Highlight 1. Scope on the selected device's data source menu and press ENTER. Use the keypad to select 2. Global or Local and press ENTER. Use the keypad to select a scope: Highlight 1. Scope on the selected device's data source menu and press ENTER. Use the keypad to select 2. Global or Local and press ENTER. Use the keypad to select 2. Global or Local and press ENTER. Use the keypad to select 2. 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Global or Local and press ENTER. Use the keypad to select 4. Global or Local and press ENTER. Use the keypad to select 4. Global or Local and press ENTER. Use the keypad to select 4. Global or Local and press ENTER. Use the keypad to select 4. Global or all networked HDS units. Reset Local is used to change all sources elections on your HDS unit from Local to Global or local sources: Highlight Resset Global or local sources enter. 2. Device ListDisplays a list of devices connected to a NMEA 2000 network. From the Device List you can: View device data• Change the devices• Enable/disable WAAS/EGNOS/MSAS for GPS antenna by conguring • HDS iGPSTo access the devices• Enable/disable WAAS/EGNOS/MSAS for GPS antenna by conguring • HDS iGPSTo access the devices• Enable/disable WAAS/EGNOS/MSAS for GPS antenna by conguring • HDS iGPSTo access the devices• Enable/disable WAAS/EGNOS/MSAS for GPS antenna by conguring • HDS iGPSTo access the devices• Enable/disable WAAS/EGNOS/MSAS for GPS antenna by conguring • HDS iGPSTo access the devices• Enable/disable WAAS/EGNOS/MSAS for GPS antenna by conguring • HDS iGPSTo access the devices• Enable/disable WAAS/EGNOS/MSAS for GPS antenna by conguring • HDS iGPSTo access the devices• Enable/disable WAAS/EGNOS/MSAS for GPS
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To access the Device menu, highlight the desired device and press MENU. Device List Page 20105SettingsTo congure device from the device list and press 1. ENTER. The Device List Page 20105SettingsTo congure device list and press 1. ENTER. appear. Highlight the 3. Location dropdown menu and press ENTER. Select the desired location and press 4. ENTER. Instance from the Device Conguration screen. This, however, should only be attempted by a gualied technician. Calibrating devices Several devices can be calibrated from the devices list including Fluid Levels, Fuel Flows and Trim Tabs. Every device that can be calibrate button on the Device Information screen, which has onscreen calibrate button on the Device from the device list and press 1. ENTER. Highlight the 2. Calibrate button on the Device Information instructions for a uid levelPage 21 107SettingsSerialbrate button Calibrate button on the documentation instructions. NOTE: For more information instructions for a uid levelPage 21 107SettingsSerialbrate button Calibrate button Calibrate button on the Device Information instructions for a uid levelPage 21 107SettingsSerialbrate button Calibrate button Calibrate button Calibrate button Calibrate button Calibrate button for a uid levelPage 21 107SettingsSerialbrate bu PortsCongures communication ports to send or receive data with another electronic device, like an autopilot. To congure serial ports: Highlight 1. Serial Ports on the Network menu and press ENTER. Use the keypad to select the desired option 3. and press ENTER. Highlight 4. OK and press ENTER. NMEA 0183 OutputControls NMEA 0183 devices. The default setting will work well under most conditions. To access NMEA 0183 Output screen: Select 1. NMEA 0183 Output from the Network menu and press ENTER. Highlight a desired sentence and press 2. ENTER to turn it on/off. To nalize changes, select 3. OK and press ENTER. Highlight a desired sentence and press 2. ENTER to turn it on/off. Holding AS\*988-0176-01B\* Page 23 126IndexUUnit Care 114Buttons 114Connectors 114Display 114Units 100Upper and Lower Limits 33VView 33Wwarning thresholds 15Water Speed Calibration 83Water Speed Calibra screen 45search by name 44Waypoints screen menu 44Weather Overlay 57ZZoom 32Zoom Bars 35 Page 24 124IndexHHarbor 63Heading Up 87IInfo Pageadd Dashboard 23Installation Menu 82Interference Rejection 63Invert Text 16KKeel Offset 82Key Beeps 70Keypad 7LLanguage 7, 69Limits 15Log Sonar MenuBytes 36Device 36Filename 36Time Remaining 36Look Ahead 64MMagnetic Variation 71Manual 63Manual Conventions 5Map orientation 41, 55Map Scale 40Measuring Distance 54Menus 8Moving a Gauge 13NNavigation 92Network 101NMEANMEA 0183 106, 107, 113NMEA 0183 Output 107NMEA 2000 101, 103, 106, 113Noise Rejection 79North Indicator 87North Up 87OOffset 64Offshore 63Open Array Park Angle 92Orientation 87Course Up 87Heading Up 87North Up 87PPages Screen 11Palette 34, 86Ping Speed 33Placing a Gauge 13Point of Interest (POI) 40Popup Information 77Position 61, 113Center 64Look Ahead 64Offset 64RRadarReset to Factory Defaults 92Radar Adjust menu 62Radar Adjust to the RX/TX buttons. c. If the TX is not lighting up then either you do not have the com port set to RADAR or the GPS unit is defective. Verify that the Com Port is set properly, if it is then the Lowrance unit will need to be sent in for repair. d. If the TX is blinking but the RX is not then you are not getting any information from the RIM, the processor or the Radar. There is a fuse inside the processor that has more than likely blown. Remove the front of the unit. Gently slide the front of the unit. Gently slide the front of the unit. Gently slide the front cover off, the fuse is located on the left side of the form to pliers to get a good grip on it and gently try to pull it out. Replace the fuse, the faceplate, and the screws, making sure that the front face is securely seated so not to lessen the water seal. If the communication is hooked up properly and all informa-4. tion elds are properly displayed on the "radar information" page, but the unit starts to warm up but you never see a count down to standby on the screen and then radar com-munication is lost after one minute. The voltage supply to the Radar Antenna or the gauge wire supplying the voltage may be to small. Page 26120Troubleshooting Before purchasing a pre-loaded mapping card for a unit, 1. go to our Mapping Index at Click on the type of card you are interested in and look at the list of units that are compatible with that card. When zooming in to see more detail, be sure the cursor is 2. located within the area covered by the mapping card. In the Chart menu, select Chart Options and then Chart 3. Categories. Make sure all the categories you want to see have a check mark beside them. If the card is not recognized by the unit, make sure the card 4. contacts and corresponding unit pins are clean and free of obstructions. Verify that the card is securely seated in the card port. If it is a card for a MapCreate map or saved GPS data, it 5. may need to be formatted. Do not format pre-loaded cards such as Nautic-Path, Fishing Hot Spots Pro, Lake Master Pro, Freedom Maps, or Navionics. The information will be deleted from the card. Please be aware that Lowrance GPS products will only read cards that are FAT formatted. MMC cards formatted using FAT 32 or NTFS will not work with our products. First, make sure the unit is locked onto the satellites and 1. shows a x on the satellite status screen. Then check for cross-hairs on the screen (or for an automotive unit, a red box with an X). If this is on the screen, it means that you want to scroll to a location on the screen or zoom in or out to see more detail. Press the EXIT button to clear the crosshairs and your current position will show in the middle of the display. To determine your current position, the GPS receiver must 2. "lock" onto at least 3 GPS satellites. For the best signal re-ception, an external GPS antenna/receiver should be locat-ed where it can receive as many signals as possible. There Current Position not on the ScreenCards not Read by

This manual is packaged with a Quick Start Guide, Installation Guide, License and Warranty booklet and NMEA 2000 Networks Installation Instructions. If any of these documents are missing, you may acquire them via a free download at ... 2018/10/22 · The following diagram demonstrates a typical small NMEA network. Data cable wiring diagram: HDS-5 & HDS-7 units NMEA wiring (data cable) To exchange NMEA data, the HDS-5 and HDS-7 units have a NMEA ... Lowrance HDS-5 Manuals & User Guides. User Manuals, Guides and Specifications for your Lowrance HDS-5 Fish Finder. Database contains 5 Lowrance HDS-5 Manuals (available for free online viewing or downloading in PDF): Quick start manual, Operation manual, Installation instructions manual . Stallation and operation manual . 2010/04/30 · Apr 29, 2010. #8. Re: Lowrance HDS 5x. You dont need the NMEA 2000 starter kit unless your going to network the head unit to your motor or radar. The gps is internal on the HDS, 7 Operation manual (132 pages) Lowrance HDS-7 Manuals: Lowrance MDS-7 Manuals: Lowrance Marine Equipment HDS-7 Operation manual (131 pages) ... Lowrance HDS-7 Manuals: Lowrance HDS-5x 5" SolarMAX<sup>™</sup> PLUS high-definition display fishfinder 256, Transducer 50/200 or 83/200 KHz, Backlit keypad. ... Lowrance HDS-5x. Date:27/01/12; Format: Pdf; Size: 6.4 Mb; Simplified Guide Italian Lowrance HDS-5x. Date:27/01/12; Format: Pdf; Size: 6.4 Mb; Simplified Guide Italian recommended tools and supplies (not included) If you plan to route the transducer cable through the transom, you will need either a 1" drill bit or a 5/8" drill bit depending on the size of the transducer cable con-nector. View online or download 2 Manuals for Lowrance HDS-9. Basides, it's possible to examine each page of the guide singly by using the scroll bar. ... Lowrance HDS-9 Manual (20 pages) .... Lowrance HDS-9 Manual (20 pages) .... Lowrance HDS-9 Manual (20 pages) Each Crouse-Hinds Scroll bar. ... Lowrance HDS-9 Manual (20 pages) Each Crouse-Hinds Scroll bar. ... Lowrance HDS-9 Manual (20 pages) Ea

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