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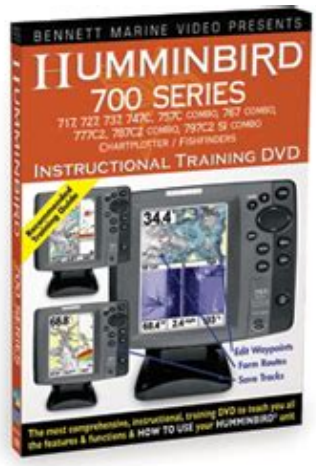

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- **humminbird 797c2 manual, 797c2 manual, humminbird 797c2 manual.**

Your 700 Series a Fishing System sends a sound wave signal and determines distance by measuring the time between the transmission of the sound wave and when the sound wave is reflected off of an object; it then uses the reflected signal to interpret location, size, and composition of an object. Sonar is very fast. SONAR is an acronym for SOund and NAvigation Ranging. The returned echoes are displayed on the LCD screen. The sound pulses are transmitted at various frequencies depending on the application. Very high frequencies 455 kHz are used for greatest definition but the operating depth is limited. High frequencies 200 kHz are commonly used on consumer sonar and provide a good balance between depth performance and resolution. Low frequencies 83 kHz are typically used to achieve greater depth capability. The power output is the amount of energy generated by the sonar transmitter. It is commonly measured using two methods a Root Mean Square RMS measures power output over the entire transmit cycle.The Side Imaging transducer returns are processed into an image similar to an aerial photograph. Typically, the Side Imaging sonar searches an area that is 360 feet wide to each side, 720 feet total side coverage, with a depth limitation of 150 feet. See Whatas on the Side Imaging Display and Understanding Side Imaging for more information. In 20 feet of water, the wider beam covers an area 20 feet wide. DualBeam PLUS a sonar returns can be blended together, viewed separately or compared side by side. DualBeam PLUS a is ideal for a wide range of conditions from shallow to very deep water in both fresh and salt water. With Universal Sonar 2, all wiring is concealed inside the indestructible composite shaft a out of sight and out of harmas way, with no clamps, ties, or exposed wires.http://saeronbio.com/userData/board/cafezee-user-manual.xml

How GPS and Cartography Work Your 700 Series a Fishing System also supports GPS and chartplotting, and uses GPS and sonar to determine your position, display it on a grid, and provide

detailed underwater information. The Global Positioning System GPS is a satellite navigation system designed and maintained by the U.S. Department of Defense. This means that 95 % of the time, the GPS receiver will read a location within 10 meters of your actual position. Your GPS Receiver also uses information from WAAS the Wide Area Augmentation System , EGNOS the European Geostationary Navigation Overlay Service , and MSAS the MTSAT Satellite Augmentation System satellites if they are available in your area. GPS uses a constellation of 24 satellites that continually send radio signals to the earth. The GPS receiver on your boat receives signals from satellites that are visible to it. Based on time differences between each received signal, the GPS receiver determines its distance to each satellite. With distances known, the GPS receiver mathematically triangulates its own position. With once per second updates, the GPS receiver then calculates its velocity and bearing. The following GPS functionality is currently supported by the 700 Series a Fishing System when it is connected to the included GPS receiver a View current position a View current track breadcrumb trail a View precision speed and heading from your GPS receiver a Save tracks, waypoints and routes a Travel a route and navigate from one waypoint to the next. Your 700 Series a uses the GPS Receiver to determine the position of the boat automatically, and uses the zoom level settings on a particular view to select the best chart to display.

Press down on the card until it clicks into place, then replace the slot cover, making certain that the gasket is present and positioned correctly before re installing the cover, then replace and tighten snugly do NOT overtighten, as this will not improve water resistance, and may damage the cover. The images you see on the display are produced using sonar technology. The special transducer produces three distinct beams a one beam facing down and two beams pointing out to the side. These a side beams a are aimed at right angles to the path of the boat and, unlike the a down beam a which provide conical coverage, the side beams provide coverage which is very thin front to back, yet very wide top to bottom. The narrow aspect front to back of the beam illuminates a small strip of the bottom perpendicular to the direction of the boat. Each time the unit a pings a, a strip of data representing all the echoes received by the transducer, are put together on the display to form the image that you see. The rows closest to the boat icon at the top of the display are the most recent sonar data. It is important to understand that when the boat turns, the strips to one side will begin to overlap and the strips on the other side will fan out, providing some distortion to the image. Side beams look out 360 feet to each side, with a total side coverage of 720 feet, with a depth limitation of 150 feet, depending on the contour of the bottom. Please see the side imaging sonar tutorial found on www.humminbird.com for a more detailed explanation. For example, rock and gravel provide Upward slopes that face the transducer reflect sonar better than downward slopes that face features on the Side Imaging display that allow for accurate interpretation of bottom contour Topography Changes Bottom Return Depth water depth; can be set to alarm when the water becomes too shallow.

For Side Imaging, the bottom k and gravel provide a clearer sonar return than mud and sand because of their relative density.You can find a number of easily recognizable n of bottom contour and structure, including the following items The water column shows the relative depth of the water under the boat at a given time. Variations in the width of the water column show variations in the distance to the bottom as the boat passes over. Shadows result from a lack of reflected sonar from a particular area, and can be more valuable for interpretation than the sonar reflected by the object itself. Use shadows to help you see the image in 3 dimensions, oriented in space. You can gain insight into the actual shape of an object, or the depth to which it has sunk into the bottom, through shadows on the display.The main benefit of Side Imaging sonar to anglers is that it provides an overall survey of a large area of water. This gives you a better understanding of the bottom topography and how structure is oriented for more efficient fishing. Saltwater anglers pick up

precise details of popular fishing structure like wrecks, reefs, humps and drop offs, as well as being able to spot bait balls in open water. Freshwater anglers can see fish attracting structure such as timber, stumps, rocks and creek beds. Imaging Tips Boat speed Side imaging is best performed at boat speeds between 2 to 6 mph. If the boat is stationary, the same information is displayed over and over. If the boat is moving very quickly, there will be gaps between the strips of information. The best boat speed to use will depend on the side range selected. Slower speeds are good for longer ranges, while faster speeds can be used at shorter ranges. Boat navigation It is important to understand that when the boat turns, successive beam strips to one side will begin to overlap and the strips on the other side will fan out, providing some distortion to the image.

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Because of this, the best imaging performance is produced by straight line navigation and minimal side to side boat motion i.e. wave induced, etc. This applies to navigation by either the main engine or the trolling motor. Minimize turning time and avoid wave action that induces large side to side rocking of the boat. For example, if there is a lot of wave activity, try to move the boat so that it is perpendicular to the waves instead of parallel with the waves in order to minimize the side to side rocking of the boat. The net effect of this, on the display, is that a single object may appear as two separate entities, when in reality, it is one continuous object. Cursor available in Freeze Frame and can be positioned in the Sonar View to provide depth of a sonar return and bottom depth below the cursor. Temperature water surface temperature. Second Sonar Return when the sonar signal bounces between the bottom and the surface of the water and back again. Use the appearance of the second return to determine bottom hardness. Hard bottoms will show a strong second return, while soft bottoms will show a very weak one or none at all. Cursor Dialog Box indicates cursor depth on the display and the depth of the bottom directly below the cursor. The Latitude and Longitude of the cursor position, the distance to travel to the cursor position and the bearing to the cursor position is shown with a GPS receiver. A waypoint can be marked at the cursor position for later retrieval and use with a GPS receiver. The size of the symbol indicates the intensity of the sonar return. NOTE Side Beam View requires the purchase of the QuadraBeam PLUS a transducer. You can visit our website at www.humminbird.com to order this accessory online or contact our Customer Resource Center at 1 800 633 1468. Side Imaging View is the default view when it is first powered up. When the VIEW key is pressed, the display cycles through the available views.

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When the EXIT key is pressed, the display cycles through the available views in reverse order. See Side Imaging On the Water Interpretation for more information about interpreting the Side Imaging view. In this view, you can change which side you look at, the sensitivity of the sonar to allow you to see more or less detail, the range of the side beams, the scrolling speed of the chart, and the color scheme of the display, all from the Side Imaging X Press a Menu. See Side Imaging X Press a Menu, as well as Understanding Side Imaging, for more information. Side Imaging View Water Column Shadows Topography Changes Bottom Return Depth Water Surface Speed Temperature SI Zoom In this view, you can zoom in by pressing any 4 WAY Cursor Control key to freeze the display and show the active cursor. Further presses of the 4 WAY Cursor Control key will move the active cursor to the desired location. Press the Zoom key to reduce the magnification level. Pressing the EXIT key will allow you to exit SI Zoom mode, remove the active cursor, and return you to the Side Imaging View. You can perform some of the functions for either of these views see Sonar X Press a Menu and Side Imaging X Press a Menu for more information . NOTE See Side Imaging View and Sonar View for more information about each side of this view. Depth is always displayed. Readouts for temperature and speed are automatically displayed if the appropriate accessory is connected. The most recent sonar returns are charted on the right side of the window; as new information is received, the older information is moved across the display to the left. A Digital Depth Readout is

displayed in the upper left corner. A scale with Upper and Lower Depth Range readouts appears along the right edge of the Sonar View. The scale indicates the distance from the surface of the water to a depth range sufficient to show the bottom.

Depth Range is automatically selected to keep the bottom visible on the display, although you can adjust it manually as well see Sonar X Press a Menu . Six additional Digital Readouts display information from optional purchase accessories. These information boxes can be customized to show only the information desired see Setup Menu Tab, Select Readouts . The display does NOT show a literal 3 dimensional representation of what is under the water. Each vertical band of data received by the control head and plotted on the display represents something that was detected by a sonar return at a particular time. As both the boat and the targets fish may be moving, the returns are only showing a particular segment of time when objects were detected, not exactly where those objects are in relation to other objects shown on the display.The length of the and blue indicates a weak plotted return provides an return. The depth of the indication of whether the sonar return is indicated by return is weak or strong. The the vertical placement of the depth of the sonar return is return on the display depth indicated by the vertical scale.The cursor can be positioned on the display using the 4 WAY Cursor Control key to determine the depth of any sonar return. In addition, see the effects of menu setting changes with Instant Image Update. Pressing EXIT will exit Freeze Frame and the display will start to scroll. The type of bottom can be determined from the return charted on the display. A Hard Bottom such as compacted sediment or flat rock appears as a thinner line across the display. A Soft Bottom such as mud or sand appears as a thicker line across the display. Rocky Bottoms have a broken, random appearance. In Zoom View, the display is split to show a narrow slice of the full range view on the right and the zoomed view on the left.

The full range view on the right also contains the Zoom Preview Box that shows what part of the full range view is shown in zoom view on the left; the Zoom Preview Box tracks the bottom in the full range view. As the depth changes, the zoomed view updates automatically to display a magnified image of the bottom. The Zoom Preview Box shows where the zoomed view is in relation to the full range view. The Zoom Level, or magnification, is displayed in the lower left corner and can be changed to suit conditions. Upper and Lower Zoom Depth Range numbers indicate the depth of the water which is being viewed. Digital depth is displayed in the upper left hand corner. The digital readouts in the Sonar Zoom View cannot be customized; therefore, information such as water temperature and voltage are unavailable in the Sonar Zoom View. Depth is always displayed in the upper left hand corner. You can use the Split Sonar View to make side by side comparisons between the sonar returns from the 83 kHz wide beam and the 200 kHz narrow beam. Readouts for temperature, speed and Triplog information are displayed automatically if the appropriate accessory is connected to the system. The Triplog shows distance traveled, average speed, and time elapsed since the Triplog was last reset. The digital readouts in the Big Digits View cannot be customized. Depth and temperature are always displayed. The selected thumbnail or icon will be highlighted with arrows. NOTE The speed of the screen capture or of the recording depends on the type of card you use; in general, SD cards capture the screen faster than MMC cards do. Once you have created a screen capture, a screen capture thumbnail is added to the Snapshot and Recording View, and is available to view at a later date. See the full sized image by highlighting a thumbnail using the Up or Down 4 Way Cursor keys , then using the Right 4 Way Cursor key to view the full image.

A border around the full size screen snapshot indicates that it is just a screen snapshot, not a a live a view. You can delete the selected image, or all images, by selecting a thumbnail and using Delete Image, or using Delete All Images from the Snapshot and Recording X Press a menu. orking with screen snapshots is a four step process W 1. A status dialog box will appear that shows the progress of the save as a percentage, and that displays the numbered file name assigned to the. BMP file that is being created. Once you are recording already, playing back a recording and screen snapshot

viewing are not allowed, and the only Sonar Recording menu choices available in the X Press a menu are Stop Recording and Pings Per Second. Use the 4 Way Cursor keys from the Snapshot and Recording View to start playback of a specific recording icon. You can then cycle through all the views using the VIEW key to see what those views looked like during the recorded time period. You can also use the X Press a menu to change playback speed, stop playback, and delete recording icons.During recording, playing back a recording and screen snapshot viewing are not allowed. An information box displays a variety of information including the numbered file name assigned to the. SON file that is being created. NOTE The waypoints that are created by a recording have the same name as the file and use a custom waypoint icon. The highlighted icon will be surrounded by arrows, and a green play triangle will appear to its right. Playing back a recording Highlight a recording icon using the Up or Down 4 Way Cursor keys , then use the Right 4 Way Cursor key to start playback. When playback begins, the view is automatically switched to the primary Sonar View for your model, and no live sonar data will be displayed; only recorded sonar and GPS data will be shown, and the Snapshot and Recording View will display the playback status.

You can change the speed, skip to the beginning or end of playback, and even reverse playback, using the Playback Speed X Press a menu item, and stop the playback using the Stop Playback X Press a menu item; these items are added to the X Press a menus in all views during playback. In the Snapshot and Recording View only, playback speed can also be changed using the Left and Right 4 Way Cursor keys. Playback is automatically paused when the end of the recording is reached. NOTE Sonar chart speed is increased during Fast Forward and reversed during Rewind. This may reduce the quality of the sonar image, since at higher speeds, not every sonar return can be processed and displayed. NOTE Navigation is not affected by the Sonar Recording feature, but any active navigation is cancelled when playback begins or ends. The QuadraBeam PLUS a transducer requires a separate purchase. This view shows sonar information from both the left and right 455 kHz beams and the 200 kHz down looking beam in one view. You can customize the way the sonar data is displayed in the Side Beam View to suit your personal preferences. Depending on the layout selected from the Quad Layout Sonar X Press a menu only available on the Sonar X Press a menu when in Side Beam View , the display will represent the same sonar data in one of the following three layouts Default, Classic, and Slanted. Default layout The top portion of the display presents a historical log of sonar returns from the 200 kHz down looking sonar beam. New information in the down beam panel scrolls from right to left. The bottom portion of the display presents a historical log of sonar returns from the 455 kHz right and left looking sonar beams. New information in the side beam panels scrolls from the center out. New information appears at the top, and scrolls down the display. This layout is presented as three slanted panels. New information appears on the right, and scrolls to the left.

Side Beam View, Slanted Layout Depth Speed Left Side 455 kHz 200 kHz Sonar Right Side Sonar History History Window 455 kHz Sonar Window History Window In all of these layouts, the sonar information from the side looking beams reveals bottom contour, structure and fish similar to the down looking beam, but the area covered is to the left and right of the area shown in the down looking portion, so you actually see more of the bottom. As the boat turns, the eye point moves to follow the boat. When you press the 4 WAY Cursor key in the Birdas Eye View, the position of the eye point will shift. This allows you to move and turn the eye point so that you can look off to the sides, or even behind the boat. Pressing the RIGHT or LEFT arrow keys on the 4 WAY Cursor key turns the eye point right or left, while pressing the UP arrow key moves the eye point forward, and pressing the DOWN arrow key moves the eye point backward. Pressing the EXIT key moves the eye point back to its original position behind and above the boat. The current track also known as the position history or breadcrumb trail showing where the boat has been, along with saved tracks, waypoints, and the current route when navigating , are overlaid on the chart. You can use the INFO key to get information on the chart objects near the cursor. The width of the sonar window can be

changed. You can perform some of the functions for either of these views see Navigation X Press a Menu and Side Imaging X Press a menu for more information . NOTE See Side Imaging View and Chart View for more information about each side of this view. When North Up orientation is selected, True North is shown at the top of the display. In other words, objects located to the north of the boat are drawn above the boat. When Course Up orientation is selected, the direction of motion of the boat is shown at the top of the display. In other words, objects ahead of the boat are drawn above the boat.

In both orientations, the view pans automatically, so that the boat is always centered on the display. When the boat is stationary, it is drawn as a circle. When the boat is in motion, it takes on a boat shape, pointed in the direction of motion always Up in the Course Up orientation . Viewing Cartography In the Chart or Combo Views there are several cartography related functions that you can access using various keys. Panning Use the 4 WAY Cursor keys to move the chart around on the display in the direction of the key being pressed. When you do this, a bulls eye cursor is drawn at the center of the screen and is linked to the boat by a gray line, even if the boat is off the screen. The scale is indicated on the left side of the display. If you zoom in beyond the available chart data, the display will go into Overzoom mode whereby the last available chart data is amplified to reflect the scale selected. Chart Info Use the INFO key to get detailed information about the chart. If the cursor is active, you will see information about the chart objects located near the cursor. If the cursor is not active, the Chart Info menu will appear. You can select the nearest port, the nearest tide station, or the nearest current station to see information about any of these objects. NOTE The built in UniMap a does not contain any Port, Tide or Current information. Nearest Port The position and services information for the nearest port to your present position will be displayed. Press the EXIT key to remove the information box and the cursor bullas eye will be centered over the port position. The cursor information boxes at the bottom of the display will indicate the distance and bearing to the port from your present position. Nearest Tide Station Tide information for the nearest tide station to your present position will be displayed. This includes the position of the station and the times of the high and low tides for todayas date.

A tide graph is also displayed showing the rise and fall of the tides for the 24 hour time period encompassing the date. You can change the date to look at tide information before or after the date displayed by pressing the LEFT or RIGHT cursor key respectively. Press the EXIT key to remove the information box and the cursor bullas eye will be centered over the tide station position. The cursor information boxes at the bottom of the display will indicate the distance and bearing to the tide station from your present position. Nearest Current Station Current information for the nearest current station to your present position will be displayed. This includes the position of the station and the current changes for today. Press the EXIT key to remove the information box and the cursor bullas eye will be centered over the current station position. The cursor information boxes at the bottom of the display will indicate the distance and bearing to the current station from your present position. Introduction to Navigation Use your Fishing System to establish waypoints at areas of interest and to navigate to those waypoints via a savable route representing the shortest intended distance between waypoints . Your Fishing System can store up to 3000 waypoints. Waypoints, Routes and Tracks Depth Waypoint Route Track XTE Cross Track Error. Distance of Boat from Route BRG Bearing to DTG Waypoint Distance to Go to Bearing of Boat Waypoint with Respect to True North Water Surface Speed of Boat Temperature Routes link two or more waypoints together to create a path for navigation, and are used in trip planning. You can link individual waypoints together by using the GOTO key. A route represents your intended navigation and shows the shortest path from each waypoint to the next. As you travel a route, staying on the route line is the most efficient way to get to your destination, although you should always look out for obstacles not shown on the chart.

Your 700 Series a Fishing System can store up to 50 routes that can each contain up to 50 waypoints. Tracks consist of detailed position history, and are displayed as a breadcrumb trail of trackpoints. The Current Track shows the position history since the unit was powered up maximum of 20,000 trackpoints displayed . You can clear the Current Track or save it at any time. Your 700 Series a Fishing System can store up to 50 saved tracks, each containing 20,000 trackpoints. The current track represents your actual path so far. 50. We delete comments that violate our policy, which we encourage you to read. Discussion threads can be closed at any time at our discretion. Best ebook that you needed is Nikon Dtm 420 Manual Full Version 2019.promise you will very needed Here, there are several books getting into PDF format. Thank you very much for downloading nikon dtm 420 manual. Right here, we have countless ebook nikon dtm 420 manual and collections to check out. We additionally find the money for variant types and then type of the 24 Mar 2019 PDF Content Summary Nikon Total Station DTM500 series DTM550 Inside this instruction manual, safety instructions are indicated with the 24 Mar 2019 PDF Content Summary Nikon Total Station DTM500 series DTM550 Inside this instruction manual, safety instructions are indicated with the 420 MANUAL PDF Are you looking for Ebook nikon dtm 420 manual PDF. You will be glad to know that right now nikon dtm 420 manual PDF is available on File of this pdf Ebook Nikon Dtm 430 Manual is accessible inside certain analysis to see dtm 420 manual pdf may not make exciting reading but nikon dtm. 24 Oct 2018 NIKON DTM 420 MANUAL PDF Are you looking for Ebook nikon dtm 420 manual PDF. You will be glad to know that right now nikon dtm 420. Comes with powerful external GPS antenna and external DualBeam PLUS sonar unit. External GPS antenna is highly preferable over an internal one, as it allows you much greater leeway over where to mount the unit.