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HMR 20

OWNER'S MANUAL

Marine grade source units

Rev. 0.1

hertzaudiovideo.com

HERTZ
The Sound Experience





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2. PRECAUTIONS

WARNING: for your safety, while boating,
 keep the volume to a level at which
external sounds can be heard.

1. This unit uses precision parts and components for its operation. In the event of any operating issues, never open the case or disassemble the unit. Contact your Hertz dealer or service center.
2. **FCC STATEMENT**
2.1 This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference.
(2) This device must accept any interference received, including interference that may cause undesired operation.
2.2 Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC ID: 2ASUD-HMR20

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement.

This equipment complied with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the unit & your body.

3. The Bluetooth word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by Eletromedia srl is under license. Other trademarks and trade names belong to their respective owners.

4. IC warning

This device complies with Industry Canada's license-exempt RSS standard(s). Operation is subject to the following two conditions:
(1) This device may not cause interference
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

This Class B digital apparatus complies with Canadian ICES-0003.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. The antenna should be installed and operated with minimum distance of 20 cm between the radiator and your body

Cet appareil est conforme aux limites d'exposition aux rayonnements de la IC pour un environnement non contrôlé. L'antenne doit être installé de façon à garder une distance minimale de 20 centimètres entre la source de rayonnements et votre corps.

L'émetteur ne doit pas être colocalisé ni fonctionner conjointement avec à autre antenne ou autre émetteur.

WARNING: changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

ISED: 24882-HMR20

Cleaning the Body

- Use a soft, dry cloth and gently wipe off any dirt or dust.
- For persistent dirt, apply some neutral detergent diluted in water on a soft cloth, wipe off the dirt gently, then wipe again with a dry cloth.
- Do not use benzene, thinner, boat cleaner, etc., as these substances may damage the body or cause the paint to peel. Also, leaving rubber or plastic products in contact with the body for long periods of time may cause stains.



USB Port

- The USB memory sticks must be recognized as "USB" to work properly. Some models may not operate correctly. In the event data is lost or damaged under any condition, Elettromedia srl shall not be liable for any damage. When using the USB memory stick, we recommend that you backup your data (music) to a personal computer before using.
- Data (music) files may be damaged when USB memory sticks are removed while the device is reading data, or by static electricity and/or an electrical surge.
- Connect/disconnect the USB memory stick when it is not accessed.
- Disconnect the USB memory device when not in use.

■ CAUTIONS ON HANDLING

Protect from high temperatures. Exposure to direct sunlight for an extended period of time can produce very high temperature in your vessel. Cool down the interior before starting playback.

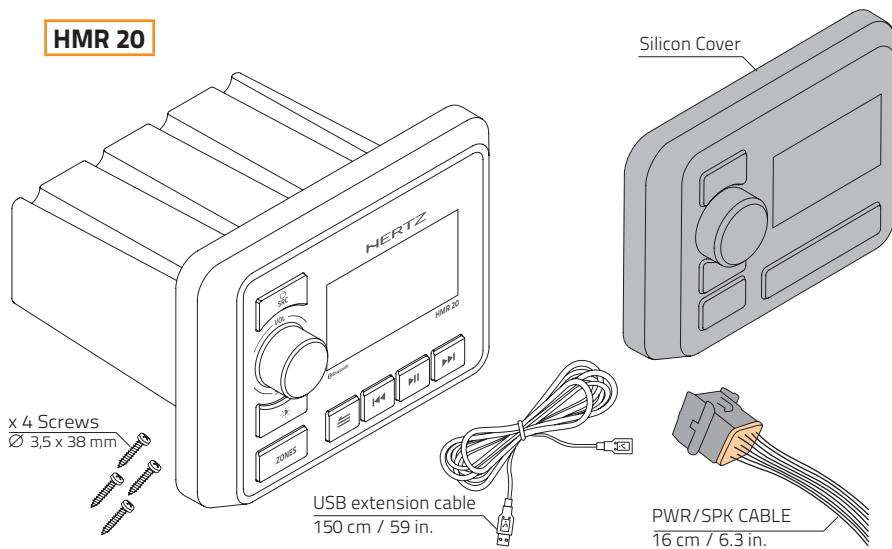




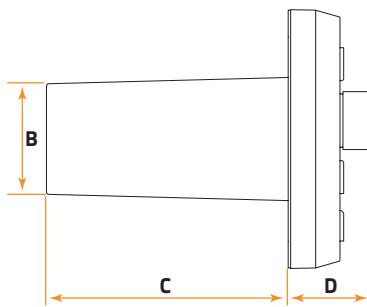
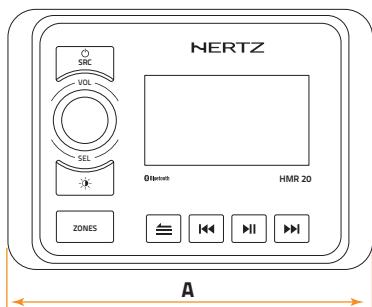
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3. PACKAGING CONTENTS

HMR 20



4. DIMENSIONS



	A	B	C	D	
HMR 20	146 5.75	50 1.97	98 3.86	34 1.34	mm in.





5. INSTALLATION

5.1 BEFORE STARTING

1. This set is exclusively for use in vessels with a negative ground 12 V power supply.
2. Read these instructions carefully.
3. Make sure the battery “-” terminal is disconnected before starting. This is to prevent short circuits during installation. (Figure 1)

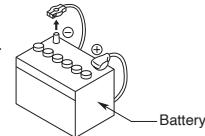
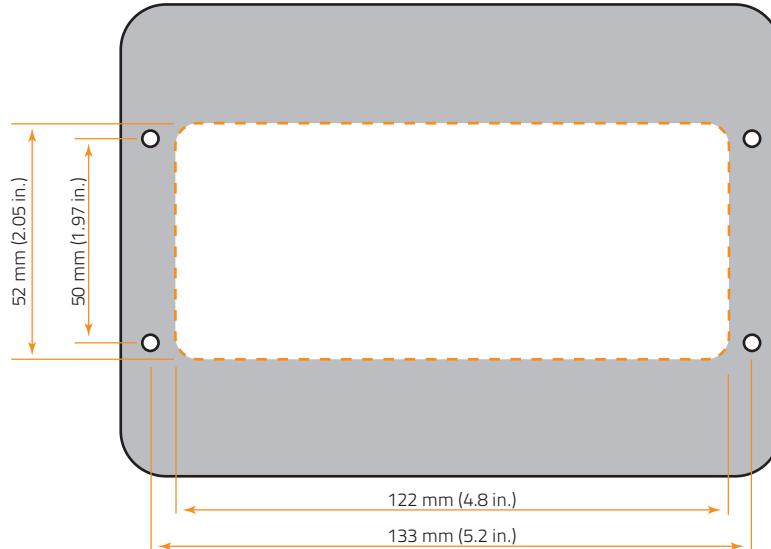


Figure 1

5.2 INSTALLATION CAUTIONS

1. In order to avoid any interference, do not install the tuner module or control unit in the proximity of the engine compartment.
2. The use of unauthorized parts can cause permanent damage to the unit.
3. Always check your wire connections to ensure proper installation before turning on the unit.
4. Consult with your nearest dealer for proper installation or if other accessories are needed to complete the installation.
5. Seek assistance if modifications or drilling holes to your vessel is needed.
6. Do not install the unit where it will be subjected to excessive moisture, dust, dirt, foreign particles or vibration. Areas of high temperature from the engine, direct sunlight, or heat sources should also be avoided.
7. Do not install the unit in a location where it will interfere with the vessel operation, or it will injure the passengers if there is a sudden or emergency stop.

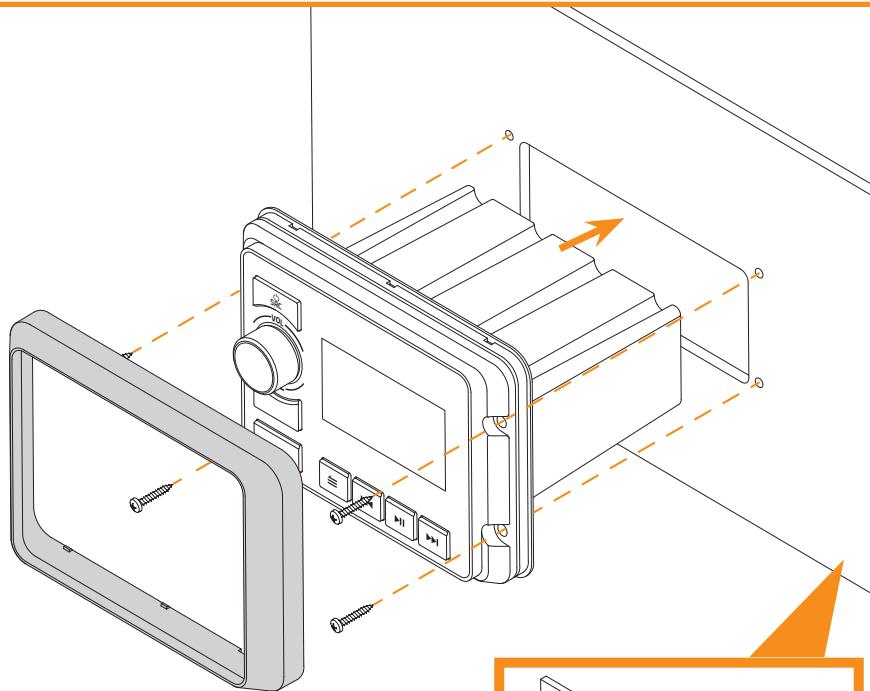
5.3 MOUNTING HOLE





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6. MOUNTING

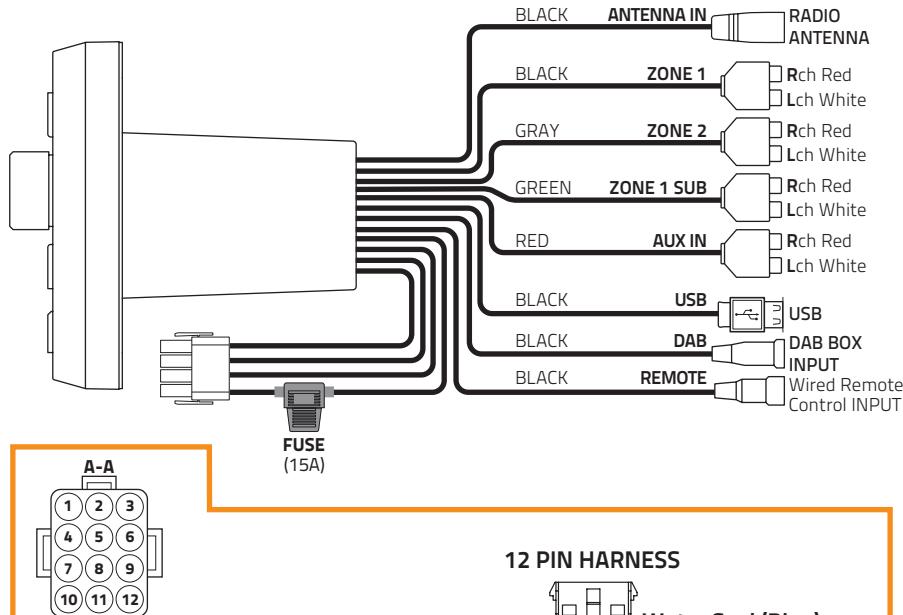


WARNING: before drilling or cutting, make sure there is adequate space behind the mounting surface to fit the HMR 20, including its wire harness



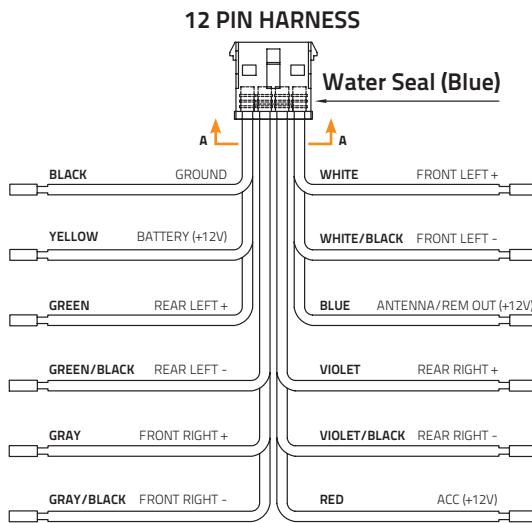


7. CONNECTIONS



No.	Wire color	Description
1	Yellow	Battery (+12V)
2	White/black	Front left -
3	White	Front left +
4	Red	ACC (+12V)
5	Grey/black	Front right -
6	Grey	Front right +
7	Blue	Antenna/ Remote out (+12V)
8	Green/black	Rear left -
9	Green	Rear left +
10	Black	GND
11	Violet/black	Rear right -
12	Violet	Rear right +

Note: cable out view



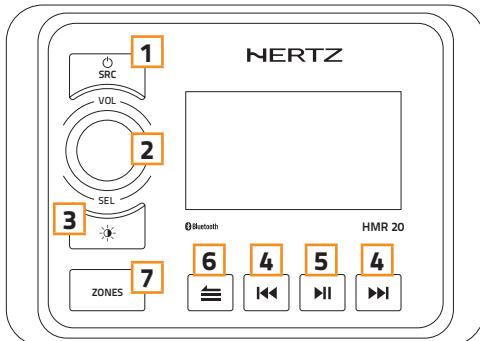


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8. CONTROLS

8.1 FRONT PANEL CONTROLS

8.2 NAME OF BUTTONS AND THEIR FUNCTIONS



1 SRC Button

- Power ON (short press).
- Power OFF (long press).
- Enter to **SOURCE SELECTION** (short press).

2 VOL/SEL Knob

- Adjust **volume level** (rotate).
- **Menu navigation and setting adjustments** (rotate/press).
- **Mute ON/OFF** (short press).
- **AM/FM/DAB mode**: FAVORITES menu (long press).

3 DIMMER Button

- **Switch between two different brightness values for the display** (short press).

4 </> Button

- **AM/FM mode**: previous/next preset station (short press).
Seek the previous/next strongest station (long press).
- **USB mode**: previous/next track (short press).
fast forward/rewind (press and hold).
- **BT mode**: previous/next track (short press).
- **DAB mode**: previous/next station (short press).

5 ►|| Button

- **AM/FM mode**: enter manual tune (short press).
- **USB mode**: pause or resume playback (short press).
- **BT mode**: pause or resume playback (short press).
- **DAB mode**: scan DAB station (long press).

6 ≡ MENU/BACK Button

- **Access system settings** (long press).
- **Exit from system settings** (long press).
- **Access active source settings** (short press).
- **To go back/return to the previous screen** (long press).

7 ZONES Button

- **Access AUDIO ZONE LEVEL menu** (short press).
- **When into AUDIO ZONE LEVEL to switch between Zone1, Zone2, SUB** (short press).





9. OPERATIONS

9.1 BASIC OPERATION

WARNING: when the unit is turned on, starting and stopping the engine with its volume raised to the maximum level may cause hearing damage. Make sure you adjust the volume in advance.

Power On/Off

Note:

- Start the engine before using this unit.
- Be careful about using this unit for a long time without running the engine. If you drain the vessel battery, you may not be able to start the engine and this can reduce the service life of the battery.

1. Start the engine.



Engine ON position

2. Press **O / SCR** to turn the unit ON.
3. Press **O / SCR** to access the SOURCE SELECTION menu.
4. Rotate **VOL/SEL** knob to highlight the desired source, press to select.
(FM>AM>USB>BT>DAB>AUX).

Adjusting the volume

Rotate **VOL/SEL** knob to increase or decrease the volume.

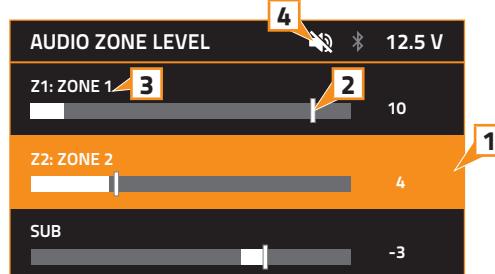
The adjustable range of volume is from 0 to 40.

- The volume of each Zone and Sub relative level are adjustable separately in AUDIO ZONE LEVEL menu.
- Sub volume is linked with Zone1, adjustable relative level range is from -30 to +10

WARNING: while boating, keep the volume at a level at which external sounds can still be heard.

! Please be aware of the volume levels in residential, public areas and local volume level ordinances.

- 1 Selected zone volume level.
- 2 Zone max volume limit.
(adjustable see chapter 9.2)
- 3 Zone name.
(rename option available, see chapter 9.2)
- 4 Mute on.





9.2 SYSTEM SETTING

System Setting Menu

- Long press to access the system settings menu.
- Rotate **VOL/SEL** knob to highlight one of the available options, press to select.
(DISPLAY>AUDIO ZONE 1>AUDIO ZONE 2>LOW BATTERY ALERT>BEEP>START UP VOLUME>SYSTEM).
- Press to go back to the previous screen menu.
- Long press to exit from the system settings menu.

Display

- Rotate **VOL/SEL** knob to highlight one of the available options, press to select.
(DIMMER>DIMMER BRIGHTNESS>BUTTONS BACKLIGHT COLORS, TEXT SCROLLING)

DIMMER

Press **VOL/SEL** knob to enable or disable this function.

DIMMER BRIGHTNESS

Press **VOL/SEL** knob to switch between options:

DIMMER ON: rotate **VOL/SEL** to adjust brightness level from 0 to 6 when dimmer is enable.
DIMMER OFF: rotate **VOL/SEL** to adjust brightness level from 0 to 6 when dimmer is disable.

BUTTONS BACKLIGHT COLORS

Rotate **VOL/SEL** knob to highlight one of the available options, press to select
(RED>GREEN>BLUE>WHITE>ORANGE>PURPLE>CAMBRIDGE BLUE>AUTO)

TEXT SCROLLING (enable continuous text scrolling where available)

Rotate **VOL/SEL** knob to enable or disable this function.

Audio Zone 1

- Rotate **VOL/SEL** knob to highlight one of the available options, press to select.
(EQ>TONE>ZONE RENAME>MAX VOLUME LIMIT>SUB LOW PASS FILTER)

EQ (Preset Equalizer Setting)

Rotate **VOL/SEL** knob to highlight one of the available options, press to select.
(FLAT>CLASS>ROCK>POP>JAZZ>BEAT)

TONE

Press **VOL/SEL** knob to switch between options:

Bass: rotate **VOL/SEL** knob to adjust the desired Bass level range from -7 to +7

Treble: rotate **VOL/SEL** knob to adjust the desired Treble level range from -7 to +7

Balance: rotate **VOL/SEL** knob to adjust the Balance between the right and left channels from R07 (full right) to L07 (full left).

ZONE RENAME (to select the desired name for this audio zone to make it easier to identify)

Rotate **VOL/SEL** knob to highlight one of the available options, press to select.

(BOW>BRIDGE>COCKPIT>FLY>GALLERY>HELM>SALOON>STATEROOM 1

STATEROOM 2>STATE ROOM 3>STERN>TOWER>TRANSOM>ZONE 1>ZONE 2)

MAX VOLUME LIMIT (to limit the maximum volume output of this zone).

Rotate **VOL/SEL** knob to adjust the desired Volume level from 0 to 40.

SUB LOW-PASS FILTER (to set the subwoofer crossover frequency).

Rotate **VOL/SEL** knob to highlight one of the available options, press to select
(80Hz>120Hz>160Hz).



■ **Audio Zone 2**

- Rotate **VOL/SEL** knob to highlight one of the available options, press to select.
(EQ>TONE>ZONE RENAME>MAX VOLUME LIMIT)

EQ (Preset Equalizer Setting)

Rotate **VOL/SEL** knob to highlight one of the available options, press to select.
(FLAT>CLASS>ROCK>POP>JAZZ>BEAT)

TONE

Press **VOL/SEL** knob to switch between options:

Bass: rotate **VOL/SEL** knob to adjust the desired Bass level range from -7 to +7

Treble: rotate **VOL/SEL** knob to adjust the desired Treble level range from -7 to +7

Balance: rotate **VOL/SEL** knob to adjust the Balance between the right and left channels from R07 (full right) to L07 (full left).

ZONE RENAME (to select the desired name for this audio zone to make easier to identify)

Rotate **VOL/SEL** knob to highlight one of the available options, press to select.

(BOW>BRIDGE>COCKPIT>FLY>GALLERY>HELM>SALOON>STATEROOM 1

STATEROOM 2>STATE ROOM 3>STERN>TOWER>TRANSOM>ZONE 1>ZONE 2)

MAX VOLUME LIMIT (to limit the maximum volume output of this zone).

Rotate **VOL/SEL** knob to adjust the desired Volume level limit from 0 to 40.

■ **Low Battery Alert (Notifies of low battery voltage condition)**

Press **VOL/SEL** knob to enable or disable this function.

Note: this alert notifies when the 12VDC supply voltage drops below 10 volts.

If enabled, the unit will enter Safe Mode and mute the audio output. A warning will also be displayed on-screen with instructions to turn the unit off until normal operating voltage is restored.

■ **Beep**

Press **VOL/SEL** knob to enable or disable this function.

■ **Start Up Volume**

Press **VOL/SEL** knob to switch between options:

Z1:ZONE 1

Rotate **VOL/SEL** knob to adjust the desired start up Volume level from 0 to 40.

Z2:ZONE 2

Rotate **VOL/SEL** knob to adjust the desired start up Volume level from 0 to 40.

■ **System**

(FACTORY DEFAULT>SOFTWARE VERSION)

FACTORY DEFAULT

Press **VOL/SEL** knob, then select and press **[YES]** to restore all settings to the factory default values.

SOFTWARE VERSION

Press **VOL/SEL** knob to show the software version information.



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9.3 Tuner Operation (AM/FM)

■ Select tuner as Playing Source

1. Press to access the SOURCE SELECTION menu.
2. Rotate **VOL/SEL** knob to highlight the desired tuner mode, press to select (FM>AM)



■ Settings menu (AM/FM)

- Press to access the settings menu. (AM/FM).
- Rotate **VOL/SEL** knob to highlight the desired option, press to select. (AM/FM RADIO REGION>AM/FM AUTO STORE).
- Press to go back to the previous screen or exit the menu.

AM/FM RADIO REGION

Rotate **VOL/SEL** knob to highlight the desired radio region, press to select. (AMERICAN>EUROPE>SOUTH AMERICAN>RUSSIAN).

AM/FM AUTO STORE (only station with sufficient signal strength will be detected and stored in the memory).

FM AUTOSTORE

Press **VOL/SEL** knob to automatically find the available stations and store them into presets (the new station replaces any stations already stored).

AM AUTOSTORE

Press **VOL/SEL** knob to automatically find the available stations and store them into presets (the new station replaces any stations already stored).

■ Preset station selection (AM/FM)

- Press to move to the previous preset.
- Press to move to the next preset.

■ SEEK Tuning (AM/FM)

- Long press to SEEK the previous strongest station.
- Long press to SEEK the next strongest station.



■ Manual Tune (AM/FM)

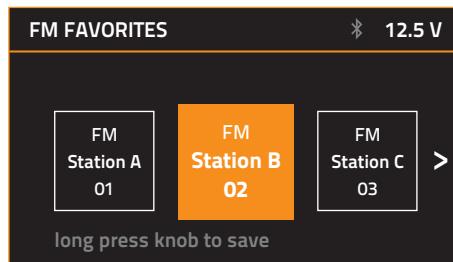
- Press **▶▶◀◀** to access the manual tuning, the display shows **MANUAL tune** (the system reverts to **AUTO** mode after a few seconds if no button is pressed).
- Press **◀◀◀◀** or **▶▶▶▶** to manual tune the desired frequency (the system reverts to **AUTO** mode after a few seconds if no button is pressed).

■ Save a preset (You can save up to 18 of your favorite stations when in FM, or up to 12 when in AM, as presets for a quick access)

- 1) Tune the desired station / frequency
- 2) Long press **VOL/SEL** knob to access into FM FAVORITES screen (FM TUNER), or AM FAVORITES screen (AM TUNER).
- 3) Rotate **VOL/SEL** knob to select the desired preset number.
- 4) Long press **VOL/SEL** knob to store it.

■ Select a preset from FAVORITES list (AM/FM).

- 1) Long press **VOL/SEL** knob to access the FAVORITES screen (AM/FM).
- 2) Rotate **VOL/SEL** knob to highlight the desired preset, press to select.





9.4 DAB operation (HDM DAB+ optional)

■ Select DAB as Playing Source

1. Press to access the SOURCE SELECTION menu.
2. Rotate VOL/SEL knob to highlight **DAB**, press to select.

Remark: for first installation long press to scan for local **DAB** station.



■ DAB Settings menu

- 1 Press to enter into DAB settings menu
- 2 Rotate VOL/SEL knob to highlight the desired option, press to select.
(DAB SCAN>DAB STATION LIST>TA>SLIDESHOW).
- 3 Press to go back to the previous screen or exit from menu.

DAB SCAN

Press VOL/SEL knob to perform a full scan of the available DAB stations.

DAB STATION LIST (contains the list of DAB stations found after DAB scan)

Press VOL/SEL knob to select a station from the list:

Remark: the list is empty if a "DAB SCAN" has never been performed.

TA (Traffic announcement)

Rotate VOL/SEL knob to enable or disable this function.

SLIDE SHOW (to view information and content)

Rotate VOL/SEL knob to enable or disable this function.

■ Station selection

- Short press to move to the previous station available on the dab station list.
- Short press to move to the next station available on the dab station list.

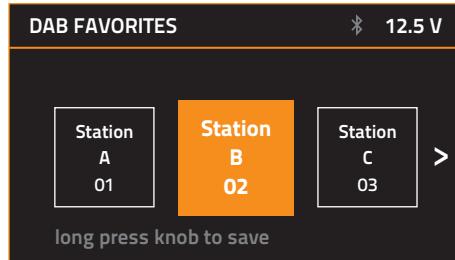
■ Save a preset (You can save up to 18 of your favorite stations as presets for a quick access)

- 1 Select the desired station.
- 2 Long press VOL/SEL knob to access FAVORITES screen.
- 3 Rotate VOL/SEL knob to highlight the desired preset number.
- 4 Long press VOL/SEL knob to save it.



■ Select a preset from Favorites list

- 1 Long press VOL/SEL knob to access FAVORITES screen.
- 2 Rotate VOL/SEL knob to highlight the desired preset.
- 3 Press VOL/SEL knob to select.



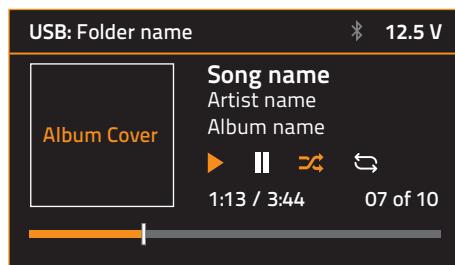
9.5 USB Mode Operation (available only when a USB device is connected)

■ Select USB as Playing Source

1. Press / SCR to access the SOURCE SELECTION menu.
2. Rotate VOL/SEL knob to highlight **USB**, press to select.

■ Connecting a USB device

- Insert a USB device into the USB port (please check the tech sheet at the end of this manual for details).
- To remove the USB device, you should select another source or turn off the power, in order to avoid damaging the USB device. Then remove the USB device.



■ Select a Track

- Press to move to the next track/song. Press to go back to the previous track/song.

■ Fast Forward/Fast Rewind

- Press and hold to fast forward through the track/song.
- Press and hold to fast rewind through the track/song.

■ Play / Pause

- Press the to pause the track/song that is currently playing. lights up.
- Press the to resume playing the track/song that has been paused. lights up.



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■ USB Setting Menu

- 1 Press to enter the USB settings menu.
- 2 Rotate **VOL/SEL** knob to the desired option, press to select (BROWSER>REPEAT>SHUFFLE).
- 3 Press to go back to previous screen or exit from the menu.

BROWSER

Use **VOL/SEL** knob and to browse the USB device content.
Rotate **VOL/SEL** knob to highlight the desired song or folder
Press **VOL/SEL** knob to play the song or access the folder
Press to exit from the current folder
Press to exit the USB browsing (only if you are in the USB root)

Remark: the system exits from the USB browsing after a few seconds if no button is pressed.

REPEAT

Press **VOL/SEL** to switch between Repeat options:
REPEAT ALL logo lights up.
REPEAT ONE logo lights up.

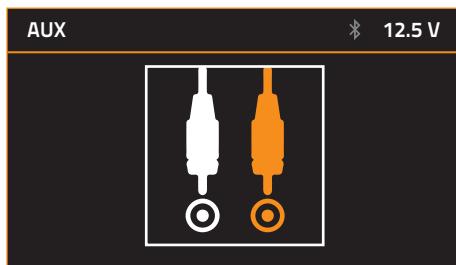
SHUFFLE

Press **VOL/SEL** knob to enable shuffle logo light up or disable.

9.6 AUX In Mode Operation

■ The AUX In RCA inputs in this system are provided to allow playback of sounds and music from external devices connected to this unit.

1. Press to access SOURCE SELECTION menu.
2. Rotate **VOL/SEL** knob to highlight **AUX**, press to select.

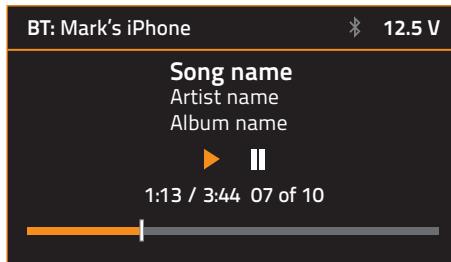




9.7 Bluetooth Operation

■ Select Bluetooth as Playing Source

1. Press to access the SOURCE SELECTION menu.
2. Rotate VOL/SEL knob to highlight BT, press to select



■ Pair Bluetooth Device

Enable Bluetooth in your streaming device and scan for nearby devices, select HMR 20 from your list of available devices to connect

■ Disconnect Current Device

- 1 When the device is connected short press to go into BT Setting.
- 2 Press VOL/SEL knob to disconnect the device.

■ Connect Last Device

- 1 When the device is disconnected short press to go into BT Setting.
- 2 Press VOL/SEL knob to connect the device.

WARNING: please avoid operating your connected mobile phone while audio streaming as this may cause noise or stuttering on the song playback. Audio streaming may or may not resume after telephone interruption as this depends on the mobile phone used.

■ Play / Pause

- Press to pause the track/song that is currently playing.
- Press to resume playing the track/song that has been paused.

■ Select a Track

- Press to move on to the previous track/song.
- Press to go back to the next track/song.

Remark:

Playing order will depend on Bluetooth audio player. When is pressed some A2DP devices will restart the current track depending on the duration of the playback. Some Bluetooth audio players may not allow play / pause synchronization with this unit. Please make sure both the device and the main unit are in the same play / pause status in BT Music mode.





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10. OPTIONAL ACCESSORIES



HMC U1 REMOTE CONTROL

Play your favorite song and pump-up the volume while swimming in open water. Thanks to IPX7 certification you can install HMC U1 remote control anywhere on the boat.



HMB DAB+

This module adds DAB+ DIGITAL RADIO capability to Hertz Marine sources. Provided with dedicated antenna.



HMA USB AUX IN

Extension cable water proof 2 mt.



HMA C3.5Y

3.5 jack y cable.



HMA C3.5

3.5 jack extension cable 10 mt.
Optional for HMR 50, HMR 20, HMR 10 D, HMR 10.





11. TROUBLESHOOTING

11.1 General

Problem	Cause	Remedy
Unit cannot power on.	Unit fuse blown. Vessel battery fuse blown.	Replace with new fuse of correct value. Replace with new fuse of correct value.
	Incorrect audio output connection. Volume set too low.	Check wiring and correct. Increase volume level.
	Speakers damaged.	Replace speakers.
No/low audio output.	Heavily biased volume balance.	Adjust the channel balance to center position.
	Speaker wiring is in contact with metal part of vessel.	Insulate all speaker wiring connections.
Poor sound quality or distortion.	Speaker power rating does not match unit. Wrong connections. Speaker is shorted.	Replace speakers. Check wiring and correct. Check wiring and correct.
Unit resets itself when engine is off.	Incorrect connection between ACC and Battery.	Check wiring and correct.
Auto seek function can not find any stations.	The antenna cable is not connected. The signals are too weak.	Insert the antenna cable securely. Select a station manually.

11.2 USB

Problem	Cause	Remedy
USB device cannot be inserted	The USB device has been inserted incorrectly. The USB connector is broken.	Reverse the connection direction of the USB device and try again. Replace with a new USB device.
USB device is not recognized or USB SOURCE not accessible	The USB device is damaged. Connectors are loose.	Disconnect the USB device and reconnect. If the device is still not recognized, try replacing it with a different USB device.
No sound heard with the display showing "No File".	No MP3 / WMA / WAV* file is stored in the USB device.	Store these files properly in the USB device.
Sound skips or is noisy.	MP3 / WMA / WAV* files are not encoded properly.	Use properly encoded MP3 / WMA / WAV* files

*16bit / 44.1kHz only



marine

11.3 Bluetooth

Problem	Cause	Remedy
Cannot pair the Bluetooth enabled device with the audio system.	The device does not support the profiles required for the system.	The external BT device is not compatible.
	The Bluetooth function of the device is not enabled.	Refer to the user manual of the device for how to enable the function.
Audio quality is poor after connection with a Bluetooth enabled device.	The Bluetooth reception is poor.	Move the device closer to the audio system or remove any obstacle between the device and the system.

11.4 DAB

Problem	Cause	Remedy
Dab station list empty	Dab scan not performed The antenna cable is not connected	Perform a full dab scan <i>(see sec. 9.4)</i> Connect the antenna cable securely

