





Infotainment Core Expansion[™] module (ICE) Operations Manual

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Warranty - A limited warranty on materials and workmanship is given with this Murphy product. A copy of the warranty may be viewed or printed by going to www.fwmurphy.com/warranty.

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Introduction

This document is designed to familiarize you with the Infotainment Core Expansion[™] module (ICE). Before attempting to set up the system, be sure to read and understand this manual in its entirety.

ICE

Murphy's Infotainment Core Expansion[™] module (ICE) brings sound control, connectivity, customization and more to the water. With software and hardware designed to fit with the existing PowerView[®] line of displays, ICE takes the functionality of stereo and multifunctional displays and brings them to the recreational marine market.

ICE software features the standard radio and stereo functions expected, but it also allows for Bluetooth connectivity that allows hands-free notifications on the display for new texts, missed and incoming calls, signal strength, battery life and BT connection status. The software also offers audio profiles, four zone control, five band EQ and customizable sound control. By giving users the ability to sync their smartphone, ICE brings car-like features designed to withstand the marine environment.

The ICE software includes:

- AM/FM
- Auto Station Discovery (finds local stations from any city)
- Auto Discover Based on PTY Category (e.g., scan for all rock stations)
- Favorites / Presets
- Search Stations by Genre (PTY category)
- PTY Recognition (genre radio artwork)
- Bluetooth Phone notifications and Audio
- Hands-free Notifications (new texts, missed calls, incoming call, signal strength, battery life, BT connection status)
- Auxiliary
- Audio Profiles
- Four Zone Control
- Five Band EQ
- Customizable Sound Control

The ICE hardware features:

- Internal Source
- AM Tuner
- Weather Band
- Digital FM Tuner (with RDS, Title Tagging)
- Bluetooth Audio

The ICE inputs are:

- 3.5 mm Analog Stereo Aux Input
- Two 2-channel RCA Analog Inputs
- Networking and Device Connections
- Bluetooth Audio Streaming
- Hands-free Bluetooth Notifications

The ICE audio features include:

- Eight Channels with 4V RMS Differential Pre Out for Audio Quality
- Four Zones with Level and EQ Control
- Five Band Tone Control
- Remote Control Capabilities
- Wireless RF Receiver for Remote Control
- Wired Remote Capability

Components

Audio



Audio Display–Touch Commands

Touchpoint	Description
	Volume: Press \triangle to increase the volume. Press \bigtriangledown to decrease the volume.
	Previous/Tune: Press to go to the closest saved station with a lower dial number . Press to tune the station to the lower dial numbers.
	Next/Tune: Press to go to the closest saved station with a higher dial number. Press to tune the station to the higher dial numbers.
1 5 96 97 98 99	Station Location: This is a visual representation of the location on the dial for the chosen station. Swipe your finger left or right on this dial to turn it.
SCAN	Scan: Press this button to scan to stations with the strongest signal strengths.
FM AM WB	Band Selector: Choose between FM, AM or Weather.
	Save to Favorites: Touch this button to save the displayed station in your favorite stations.
▼ 1 94.1 MHz 95.5 MHz 96.5 MHz 97.5 MHZ 97.5 MHZ	Preset Stations: This list contains six of the previously saved favorite stations.
FAUGRITES	Favorites List: Touch to alternate between List A and List B. This provides 12 saved favorite stations.
TUNE MODE FREQ PRESET	Tune Mode: Choosing FREQ will allow the scanning of all stations on the dial. Choosing PRESET will only scan the saved favorite stations on the dial.
Q All	Channel Classifications: Touch this to display a list to choose only stations that are classified as one of the following: All, News, Information, Sports, Talk, Rock, Classic Rock, Adult Hits, Soft Rock, Top 40, Country, Oldies, Soft, Nostalgia, Jazz, Classical, R&B, Soft R&B, Religious Music, Religious Talk, Public, College, Spanish Talk, Spanish Music or Hip Hop.

Touchpoint	Description	
PRESET 5 92.9 FM 1 94.1 FM 2 95.5 FM 3 96.5 FM KRAV Adult Hits 4 97.5 FM KALB Rock 5 92.9 FM 6 104.5 FM	Complete Preset List: Pull down this list for a total of 30 preset positions to save your favorite stations. To delete a station, touch the X, and this will display:	
	Touch this point to expand the following list of icons:	
	lcon	Description
	((中)) 	Switches to the FM band.
	്സ്) _ AM	Switches to the AM band.
	*	Displays the Bluetooth utility.
	NOAD	Displays the Weather band.
	\bigcirc	Displays the Auxiliary Input display.
	Touch this point to display a list of the following icons:	
	lcon	Description
	\$	Displays the Settings menu.
		Displays the Sound Control (Equalizer) menu.
		Provides a way to update the firmware. This box will appear:
		Insert a USB flashdrive with the update file. (firmware.hex) Touch the check mark when the flashdrive is in place to update the system. Touch the X to abort.

Bluetooth

To display the Bluetooth utility, touch **I** on the left side of the screen. Then touch **I**. The following screen will display:



At the top of the screen, touch **Example**, and the following screen will display:



Follow these steps to connect to Bluetooth:



Settings

The Settings section allows the adjustment of the following:

- Notifications
- Zone Control
- Remotes
- Dealer



Section		Description	
Remotes	D *	[≈] 84 · F [↔] 32 · F 7:09 PM	
	SETTINGS		
	NOTIFICATIONS	REMOTES	
		Wireless Remote Pairing	
	REMOTES	Disabled O Remotes Paired	
	DEALER	Clear Paired Remotes	
		To enable wireless remote pairing, ensure the Disabled box s not checked or filled in. Then press any key on the remote o pair.	
	Touch the r	ed X to clear any paired remotes.	
Dealer		displays the IP Address.	

Sound Control (Equalizer)



The 5 Band Equalizer allows the sound to be modified in all four zones or in the Master:

- Subwoofer
- Front
- Back
- Zone 3

• Master

To control the sounds for the Master, touch Master, and the blue background will appear as shown below.





	Slide your finger to adjust the blue circle on the screen to the preferred location.
Touchpoint	Description
	Reset / Confirm: Touch the blue circle to discard any changes. Touch the green check mark to confirm changes. If the red X is pressed before accepting the changes, the following screen will appear:
	Do you want to save changes? Save All changes, Return to editing, Reset All and Exit, or Exit without saving. Save All Return Reset Exit Press Save All to save any changes; Return to make additional changes; Reset to return all controls back to their previous state; or Exit to delete any changes.

Presets



Presets allows the choosing of pre-established equalizer settings for various classifications of music (e.g., Rock, Electronic, Jazz, Dance, Pop, Acoustic and Classic). Typically, Jazz, Dance and Rock lean heavily upon instruments and bass than Acoustic and Pop, which lean heavily upon treble and vocals.

Touch the appropriate square to enable these pre-established settings. Then touch the green check mark to save these settings.

NOTE: Notice the green check mark on the Equalizer symbol beside Master. This appears whenever a change is made but has not yet been saved. Once saved, that check mark will disappear.

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