



GARMIN®

R V C A T A L O G



GARMIN®

OPERATION, NAVIGATION AND ENTERTAINMENT. ONE COMPANY.

ONE SOLUTION, ONE COMPANY.

Combining industry-leading Garmin, Fusion® and EmpirBus™ technology, the Garmin ONE solution provides your customers with a completely connected system and a superior on-road experience.

Easily control and monitor any onboard function from the Garmin infotainment display, using the power of EmpirBus Digital Switching. The user interface and system can be custom designed for any RV to deliver an intuitive, premium experience.

The Garmin infotainment system is loaded with RV-specific navigation features and safety functions so your customers can have the confidence to take on the adventure ahead while listening to their favorite soundtrack via the fully integrated Fusion entertainment system.

It's the one RV solution you've been waiting for.



OPERATION

EMPIRBUS DIGITAL SWITCHING

With EmpirBus customers can experience the power and convenience of advanced home and luxury car automation in their RV by controlling and monitoring all onboard electronic systems from a Garmin infotainment system. That includes lighting, slide-outs, entertainment, security systems, air-conditioning, temperature and much more. EmpirBus replaces the standard mechanical circuit breakers and switches with state-of-the-art digital power distribution that provides reliable, convenient and easy-to-use operation.

ADVANCED AUTOMATION FOR THE RV

Featuring scalability and durability from extensive use in tough environments, it is designed for cost efficiency, modularity and an intuitive experience. Control electronic systems such as lighting, air conditioning, cooler, ramp, entertainment systems and much more from any Garmin display.

THE POWER OF DIGITAL SWITCHING

Instead of space-consuming and labor-intensive fuse and circuit breaker assemblies, EmpirBus™ Digital Switching uses compact digital control modules to simplify a user’s control system resulting in lower warranty and labor costs per unit. Each module can support between 16 and 31 input and output circuits that are customized to meet the exact needs of the equipment being controlled or monitored.

Each EmpirBus system connects to the existing network, which lets it communicate with the Garmin infotainment display and other technology on the network. Flexible network architecture enables EmpirBus systems to be mounted near the equipment they are controlling, reducing the amount of necessary cabling. This makes the system easier to install and troubleshoot than traditional switch systems, reducing cost and complexity. EmpirBus Digital Switching paired with Garmin fixed or wireless touchscreens brings a whole new level of freedom and flexibility to your design.



ENTERTAINMENT



TANK MONITORING



SLIDE-OUT



BLINDS AND CURTAINS



PUSH-UP BEDS



LIGHTING



CLIMATE CONTROL



POWER MANAGEMENT



LEVELING

EMPIRBUS™ CLOUD SOLUTION GRAPHICS

EmpirBus GraphiX allows you to customize the user Interface to suit your desired appearance on any screen individually per model or floorplan and can be easily managed within the OEM workspaces or with assistance from the Garmin support team. Some of the features our graphics offer are:

CUSTOMIZABLE INTERFACE

Personalize layouts by uploading proprietary icons, buttons and images.

Drag and drop icons, buttons and images into any configuration.

Create controls for every type of circuit switch or monitor.

Make changes to graphics and logic in-house with EmpirBus™ LogiX and EmpirBus™ GraphiX.



EmpirBus GraphiX is a graphical programming tool for various platforms, designed to help you create amazing graphical user interfaces via a simplified work process. In other words, if you can think it, you can program it.

GARMIN RV CONTROLS APP

The free Garmin RV Controls app creates a powerful connection between your RV’s onboard system and your compatible mobile device when connected to your Wi-Fi® network.. Simply connect your compatible smart device to your RV network to control and monitor your onboard systems.



EMPIRBUS™ LOGIX

The easy-to-use EmpirBus LogiX software provides a wide set of customization possibilities. This software features a graphic programming user inter—face to help you build the desired back—end functionality of each system. EmpirBus LogiX—as well as all other EmpirBus software—is supplied to customers free of charge.

EMPIRBUS™ GRAPHIX

EmpirBus GraphiX is a graphical programming tool for various platforms, designed to help you create amazing graphical user interfaces via a simplified work process. In other words, if you can think it, you can program it—without having to wait for the next product iteration.



GARMIN DISPLAYS

GARMIN SERV+™ 7" AND 10" DIGITAL SWITCHING SYSTEM DISPLAYS TD 50 TOUCHSCREEN DISPLAY

The Garmin SERV+ digital switching system display is the command center for any adventure. For a smart RV experience, control and monitor your systems and entertainment from a sleek touchscreen. Integrate select Garmin, Fusion® and EmpirBus™ products on board for streamlined control. Additionally, Garmin created the TD 50, a 5" touchscreen intended for use as a secondary digital switching display for smaller spaces.



NXT DCM DC MODULE

The NXT DCM connects to the main DC power and provides inputs and outputs to the system. Its compact size allows it to be easily mounted in small spaces. It provides 16 channels featuring:

- Two 16-way Molex MX150L connectors
- NMEA 2000® connectivity
- 12/24V DC operation, 100A rating, reverse polarity protection
- 16 universal user-configurable bidirectional (I/O) channels
- Optional EnOcean receiver (model dependent)
- IP65

CONNECT 50 DC MODULE

The EmpirBus™ Connect 50 is a 31-channel DC module that provides state-of-the-art technology to digital switching. Based on components designed for the automotive industry, the Connect 50 module has been given an outstanding cost/performance ratio while still managing to provide exciting new features to the market. Its compact size allows it to be easily mounted in small spaces. It provides:

- NMEA 2000 DC module
- 12/24V DC operation, 50A rating, reverse polarity protection
- NMEA 2000, no bus power needed (zero load from NMEA bus power supply)
- Up to 31 (I/O) channels; optional CAN(RVC)-port, RS-485, LIN-bus, integrated **WiFi®**, EnOcean receiver (model dependent)
- IP65



WDU v2 WEB DISPLAY UNIT

The EmpirBus™ Web Display (WDU) unit is a webserver unit that distributes customized graphics to any HTML5-supporting device. The WDU v2 allows any EmpirBus system to be controlled and monitored by a user interface that's fully optimized for its purpose.

- NMEA 2000
- USB
- Integrated Wi-Fi module
- Ethernet
- Optional integrated worldwide 4G module
- IP65



NAVIGATION

GARMIN SUPERIOR NAVIGATION

Your customers can spend less time planning their trip and more time enjoying it with RV-specific navigation from Garmin. Customized RV routing¹, directories of campgrounds, parks, services, route warnings, elevation profiles and hands-free features deliver a superior navigation solution.

With innovative features and unparalleled reliability, Garmin lets consumers make the most of their time on the road.

MADE FOR THE RV EXPERIENCE

Not all roads are created equal. That's why the size of your customer's RV plays a crucial role in deciding which route to take. By creating a unique RV profile and inputting height, length, width and weight, the Garmin infotainment system can suggest the most efficient route to the destination. No more backtracking or close calls.

CUSTOM ROUTING

Custom RV routing¹ suggests routes that best suit each RV. This includes RV speed limits for the size and weight of each vehicle.

ROAD WARNINGS

See road warnings for bridge heights, weight limits, sharp curves, steep gradients and more.

REAL DIRECTIONS

Easy-to-understand, spoken turn-by-turn directions guide like a friend, using street names, store names and recognizable landmarks.

ELEVATION PROFILE

This profile shows upcoming elevation and possible steep grades along each route.



DIRECTORIES OF RV PARKS AND SERVICES

The Garmin infotainment system has a wealth of knowledge and is the perfect companion for on-road expeditions. It features a frequently updated directory containing information for more than 20,000 locations, including campgrounds, hostels, supermarkets, emergency services, entertainment, points of interest and more.

RV DIRECTORY

Access more than 20,000 RV parks and campgrounds with the comprehensive RV directory.

US RV-specific POIs

Tripadvisor® ratings for points of interest
Millions of Foursquare® points of interest
KOA (Kampgrounds of America)
iOverlander™ points of interest
Ultimate Public Campgrounds
RV parks and services directory

EU RV-specific POIs

Millions of Foursquare® points of interest
Tripadvisor® ratings for points of interest
Trailer's PARK (free RV parking/stopover)
Campercontact™
ACSI

AUS RV-specific POIs

Millions of Foursquare® points of interest
Tripadvisor® ratings for points of interest
HEMA points of interest
HEMA Maps raster mapping

THE CONFIDENCE TO EXPLORE

Clearly spoken directions and easy-to-read information help ensure a happy driver and happy campers. Exclusive features, including lane guidance, Bird's Eye junction view and photoReal junction view, point the driver to the right path while the brightly colored on-screen arrows lead the way.

PHOTOREAL JUNCTION VIEW

The driver gets a realistic view of upcoming junctions on screen, just as they appear in real life. Brightly colored arrows indicate the correct lane.

LANE GUIDANCE

Stay on the right path for the journey with visual directions that provide lane-specific information.



BIRD'S EYE JUNCTION VIEW

The Bird's Eye junction view points the driver directly to the right path, while brightly colored on-screen arrows lead the way.

CONNECT FOR A BETTER DRIVE

With the easy-to-use Garmin Drive™ app downloaded on your compatible smartphone, your RV navigator can help simplify your drive. Always be in the know with live traffic and parking updates, weather, smart notifications and quick access to footage from your paired Garmin cameras (sold separately).

SIMPLE USER INTERFACE

The intuitively designed user interface ensures a seamless experience while navigating, using controls and adjusting audio entertainment. Featuring a customizable digital switching interface specific to the customer's RV model, controlling an RV from the Garmin infotainment system is a breeze.

UP-AHEAD INFORMATION

See what campsites, rest areas, attractions and fuel stations are coming up ahead, along with milestones along the route.

FATIGUE WARNINGS

Time for a break? During longer journeys, fatigue warnings suggest break times and potential rest areas.



ADDED AWARENESS

An intuitive driving mode makes Garmin infotainment systems simple to use while at the wheel. Quick-access media control buttons minimize the distractions, letting the driver stay focused on the road. To prioritize awareness, the screen automatically displays any blind spots and obstacles behind the vehicle every time the driver activates a turn signal or shifts into reverse (rear-view and side-view camera required; sold separately).



VOICE-ACTIVATED NAVIGATION

Drivers can keep their hands on the wheel because now they can simply speak to the Garmin infotainment system instead of physically entering their destination. They'll enjoy improved situational awareness and focus with hands-free, voice-activated navigation.



¹Not available in all areas. Entering your RV or trailer profile characteristics does not guarantee your RV's characteristics will be accounted for in all route suggestions. Always defer to all posted road signs and road conditions.



GARMIN PRODUCTS

VIEO™ RV INFOTAINMENT SYSTEM

The ultimate RV adventure starts by combining Garmin navigation, premium Fusion® audio entertainment and optional EmpirBus™ technology in a single, portable touchscreen display we proudly call Vieo™.

The Vieo stereo dock is your home base for fully integrated RV infotainment and the first step for installation in any RV. It reduces inventory requirements, provides power for the charging display when docked and is compatible with the 8" and 10" removable Vieo touchscreens. The touchscreen display can be removed from its base and used as a remote throughout the interior and exterior of the RV for full control of the infotainment experience.

Vieo provides:

SUPERIOR NAVIGATION

- Custom Routing
- Lane Guidance
- RV Directory
- Up-ahead Information
- Road Warnings
- Elevation Profile
- Hands-free Options
- Rearview Camera Compatible

AUDIO SOURCES

- BLUETOOTH®
- AM/FM radio
- Apple AirPlay®
- USB connection with Apple® and Android™ devices
- AUX
- SiriusXM®-Ready (RV 51 dock)
- DAB+ Ready (RV 51 dock, requires MS-DAB100 module, only available in parts of Australia and Europe)
- DAB receiver (RV 52 dock, only available in parts of Australia and Europe)

FUSION AUDIO CONTROL

The Vieo series gives you full control of your entertainment experience, right from your fingertips with the Fusion® Audio app.



VIEO SYSTEM INFORMATION

SPECIFICATIONS

	VIEO
PRELOADED STREET MAPS	Yes
SPECIALIZED RV ROUTING¹	Yes, custom routing¹ takes into account the size and weight of your vehicle, then finds the best route for your trip
ROAD ELEVATIONS	Yes
SPEED LIMIT CHANGES	Yes
STATE AND COUNTRY BORDER NOTICES	Yes
SUNRISE/SUNSET TIMES	Yes
MILE MARKER INFO	Yes
3-D BUILDINGS AND TERRAIN	Available on the 8" and 10" displays
INCLUDES MAP UPDATES	Yes, Wi-Fi® map updates
DATA CARDS	microSD™ card (not included)
GARMIN REAL DIRECTIONS™ LANDMARK GUIDANCE	Yes
ROUTE SHAPING THROUGH PREFERRED CITIES/STREETS	Yes
VOICE-ACTIVATED NAVIGATION (OPERATE DEVICE WITH SPOKEN COMMANDS)	Yes
BLUETOOTH® CALLING²	Yes
LANE ASSIST WITH JUNCTION VIEW (DISPLAYS JUNCTION SIGNS)	Yes
SPEED LIMIT INDICATOR (DISPLAYS SPEED LIMIT FOR MOST MAJOR ROADS IN THE U.S. AND EUROPE)	Yes
DRIVER ALERTS FOR SHARP CURVES, SCHOOL ZONES, RED LIGHT AND SPEED CAMERA WARNINGS, AND MORE	Yes
GPS	Yes
GLONASS	Yes
GALILEO	Yes
SMARTPHONE NOTIFICATIONS THROUGH LIVE PARKING VIA THE GARMIN DRIVE™ APP	Yes
ADDRESS SHARING	Yes
PHOTOLIVE TRAFFIC CAMERAS	Yes
LIVE TRAFFIC	Yes
BASIC WEATHER AND FORECASTS	Yes
WEATHER RADAR	Yes
WEATHER ROAD CONDITIONS	Yes
WEATHER ALERTS	Yes
LIVE PARKING INFORMATION	Yes

¹Not available in all areas. Entering your RV or trailer profile characteristics does not guarantee your RV's characteristics will be accounted for in all route suggestions. Always defer to all posted road signs and road conditions.
²When paired with a compatible smartphone, see [Garmin.com/ble](#)



SPECIFICATIONS

	8" DISPLAY	10" DISPLAY
TOUCH SCREEN	Yes	Yes
DISPLAY SIZE	6.8" W x 4.2" H (17.2 x 10.7 cm); 8" (20.3 cm)	8.5" W x 5.3" H (21.6 x 13.5 cm); 10.1" (25.7 cm)
UNIT WEIGHT	.86 lbs, 13.8 oz	1.19 lbs, 19.1 oz
DISPLAY RESOLUTION	1280 x 800 WXGA	1280 x 800 WXGA
BATTERY	Rechargeable lithium-ion	Rechargeable lithium-ion
DISPLAY CONTROLS	Power, Volume Up/Down, micro USB, microSD™	Power, Volume Up/Down, micro USB, microSD™

¹Not available in all areas. Entering your RV or trailer profile characteristics does not guarantee your RV's characteristics will be accounted for in all route suggestions. Always defer to all posted road signs and road conditions.
²When paired with a compatible smartphone, see [Garmin.com/ble](#)

VIEO STEREO DOCK

STEREO FEATURES

SOURCES	AM/FM RDS/BLUETOOTH/Apple AirPlay 2 Wi-Fi audio streaming/USB audio/AUX x2/UPnP/ MTP/ SiriusXM-Ready (U.S. only, requires optional SiriusXM Connect vehicle tuner, not included)/ DAB+ (available in Europe and Australia only)
DAB+ (EU AND AUS SKU'S)	DAB ensemble and DAB/DAB/DAB/FM service following both on RV 52
RADIO FEATURES	Dual tuner (RV 52), REG/Regional setting, Alternate Frequency (AF) setting
SIRIUSXM (NA SKUS)	Yes, with advanced features
NUMBER OF PRESETS	15 Presets on each: AM/FM/DAB/SiriusXM
MULTI-ZONE TECHNOLOGY	Yes, four independent audio zones are available for a customized listening experience
DIGITAL SIGNAL PROCESSING (DSP)	Yes, using environmental information and customized Fusion speaker profiles, you can now achieve customized optimized audio
FUSION AUDIO CONTROL (WIRELESS)	Yes, via the Fusion Audio app downloaded to your compatible smartphone
PARTYBUS™ TECHNOLOGY	Yes (receive and broadcast — wired or wirelessly). Audio distribution network that allows the ability to switch between Party Mode and Personal Mode without disrupting the audio in other areas of the vehicle.
BLUETOOTH WIRELESS TECHNOLOGY	BLUETOOTH audio streaming, music control (via devices compatible with A2DP/AVRCP 1.3 BLUETOOTH protocols) (Up to 10 m (30 ft))
WI-FI	Yes
ANT TECHNOLOGY	Yes (Up to 3 m 10')
INTERNAL AMPLIFIER	Class-D
PEAK POWER	280-watt max
AUDIO OUTPUT	4 x 26 watts RMS @ 4 ohms per channel @ 10% THD+N; 4 x 43 watts RMS @ 2 ohms per channel @ 10% THD+N
CAMERAS	Connect up to 4 wired cameras and 1 with microphone input; compatible with Garmin BC™ 35 Wireless Backup Camera
COMPATIBLE DEVICES	Garmin Connect IQ™ watch models, ARX70 and ERX400 remotes for media controls PartyBus networking with SRX400, RA770 and IN1501 EmpirBus Connect 50 and DCM family modules via NMEA 2000®
STEERING WHEEL CONTROL	Integrates with compatible vehicle chassis steering wheel controls
OPERATING VOLTAGE	+10.8 - 16V dc

CONNECTIONS

AUXILIARY INPUTS	2 x RCA Inputs (AUX 1 stereo input; AUX 2 camera audio input only)
ETHERNET	One Ethernet port
USB 2.0 PORT	2 x USB 2.0 port (1 for phone charging/media playback on the dash; 1 reserved for Garmin accessory use)
DAB+ (EU AND AUS SKUS)	DAB antenna FAKRA connector (RV 52)
SIRIUSXM (NA SKUS)	One SiriusXM port (requires optional SiriusXM Connect vehicle tuner, not included)
AM/FM RADIO	Motorola port on the RV 51 and FAKRA port on the RV 52.
SPEAKER	4 x speaker connections (2 zone amplified)
RCA PRE-OUT (LEFT, RIGHT AND SUBWOOFER)	2 x zones of RCA pre-outs (L, R, sub; 2 additional zones are in the ISO harness)
CAN	2 x CAN connections (for the vehicle and house/EmpirBus)
IGNITION	2 ignition connections (powered from house batteries with dual on/off control from ignition and/or house switch; plus front panel on/sleep button)
COMPOSITE VIDEO	4 x CVBS inputs (for backup, blindspot and forward-looking cameras)
DIGITAL I/OS	3 x camera selects, such that blind spot and back up can be triggered both automatically and manually by user via SW

DOCK

CONTROL BUTTONS	Power, Volume Up/Down, Mute, Fast Forward, Play/Pause, Rewind, Source
DISPLAY SIZES	Accommodates RV 2020 Series 7", 8" and 10" Displays
PHYSICAL DIMENSIONS (W X H X D)	178mm width, 98mm height, 135mm depth
UNIT WEIGHT	2.53 lbs, 40.5 oz
FITS DDIN CUT-OUT	Yes



EUROPE

MILLIONS OF FOURSQUARE® POINTS OF INTEREST	Yes
TRIPADVISOR® RATINGS FOR POINTS OF INTEREST	Yes
TRAILER'S PARK (FREE RV PARKING/STOPOVER)	Yes
CAMPERCONTACT	Yes
ACSI	Yes
RDS TRAFFIC	With optional traffic cable accessory, sold separately
LIVE TRAFFIC VIA SMARTPHONE	Yes
LIVE TRAFFIC VIA DAB+	With optional traffic cable accessory, sold separately

AUSTRALIA/NZ

MILLIONS OF FOURSQUARE® POINTS OF INTEREST	Yes
TRIPADVISOR® RATINGS FOR POINTS OF INTEREST	Yes
HEMA POINTS OF INTEREST	Yes
HEMA RASTER MAPPING	Yes
RDS TRAFFIC	With optional traffic cable accessory, sold separately
LIVE TRAFFIC VIA SMARTPHONE	Yes
LIVE TRAFFIC VIA DAB	With optional traffic cable accessory, sold separately

NORTH AMERICA

TRIPADVISOR® RATINGS FOR POINTS OF INTEREST	Yes
MILLIONS OF FOURSQUARE® POINTS OF INTEREST	Yes
KOA (KAMPGROUNDS OF AMERICA)	Yes
IOVERLANDER™ POINTS OF INTEREST	Yes
ULTIMATE PUBLIC CAMPGROUNDS	Yes
RV PARKS & SERVICES DIRECTORY	Yes
HD DIGITAL TRAFFIC	With optional traffic cable accessory, sold separately
RDS TRAFFIC	With optional traffic cable accessory, sold separately
LIVE TRAFFIC VIA SMARTPHONE	Yes



ENTERTAINMENT

FUSION® ENTERTAINMENT BY GARMIN

With its Fusion lineup of RV entertainment solutions, Garmin is passionate about enhancing on-road experiences. Our determination to continually innovate has brought new capabilities to Garmin RV solutions, including the integration of touchscreens to audio entertainment stereos, along with Wi-Fi® audio streaming, Apple AirPlay® 2, PartyBus™ and advanced Digital Signal Processing (DSP) technology.

We're dedicated to developing and delivering world-class audio entertainment systems to provide your customers with a superior audio entertainment experience.

MULTI-ZONE™ TECHNOLOGY

Multi-Zone technology gives your customers the freedom to independently control the music in up to 4 separate zones on board their RV. Adjust the balance, subwoofer and volume levels, with each zone able to be named for quick identification, providing a simple, quick and easy way to control the audio in each zone of the RV.

FUSION AUDIO CONTROL



Your customers can wirelessly control their entertainment right from their fingertips via BLUETOOTH® or Wi-Fi® technology with the free Fusion® Audio app. Customers can simply download the app from the Apple App Store® or Google Play™ to connect to their stereo and enjoy control via the Fusion Audio app on their compatible Apple® or Android™ device. They can also control entertainment right from their wrist with the free Fusion Audio app and their compatible Garmin watch. Download the app from the Garmin Connect IQ™ Store.

BUILT-IN WI-FI® AND OVER-THE-AIR SOFTWARE UPDATES

Enjoy the convenience and sheer quality of Wi-Fi audio streaming via universal plug-and-play (UPnP) or Apple® AirPlay® 2 on board. Wi-Fi audio streaming provides higher-quality audio with a faster data transfer rate than BLUETOOTH. Over-the-air software updates are available from a compatible smartphone or device via the free Fusion Audio app

OUTDOOR-READY DESIGN

The Outdoor-Ready design philosophy stems from our collective experience confronting harsh outdoor environments. With Outdoor-Ready design, be assured that each product is engineered specifically to last the test of time in your customer's vehicle.

DSP TECHNOLOGY

With the power of Fusion DSP, the audio played on Fusion speakers can be optimized for each zone, providing customized listening in any environment. Every step of the audio chain is calculated and optimized by our engineers to deliver a technically superior listening experience — without the need for you to have the technical understanding. From the kick drum to your eardrum, Fusion DSP ensures your customers enjoy the music at the quality the musicians intended.



FEED-FORWARD LIMITER

Experience superior audio with minimized distortion and enhanced system protection.



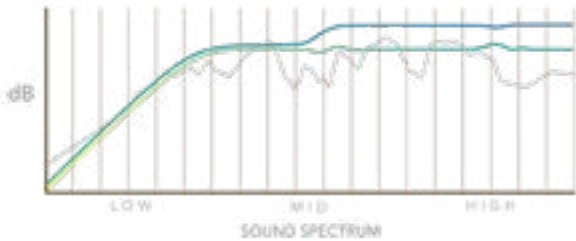
VOLUME EQUALIZER

Get volume optimization and listen to quality audio at all volumes.



SPEAKER AND ENVIRONMENTAL PROFILING

Enjoy optimized audio in any listening environment.

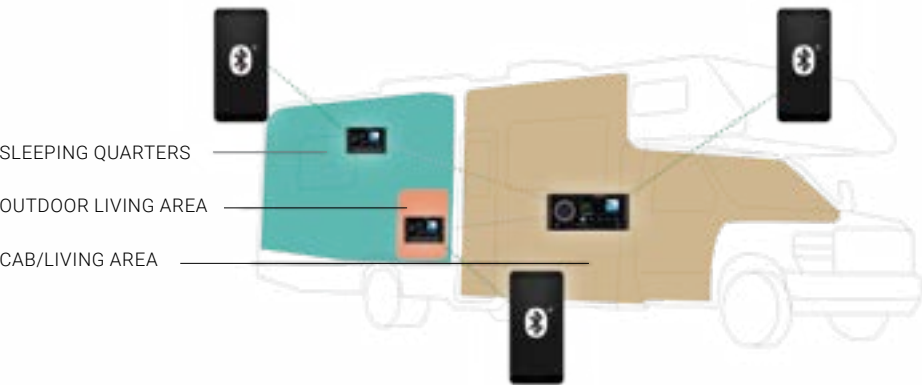


PARTYBUS™-NETWORK

The audio distribution network of the future, PartyBus is engineered for those who value the freedom of musical choice, and the freedom to play what they want, where they want. Navigate and control the entire RV's audio network seamlessly with the intuitive user experience.

Key functionalities include:

- Stereo grouping: play the same synchronized audio source across grouped stereos
- Volume control: individual or group volume control
- Power options: turn on or off any Apollo™ series stereo or Garmin infotainment product on the PartyBus Network from another Apollo series stereo or Garmin infotainment product
- Home zone: easy access to control where the stereo is installed.



FUSION STEREO UNITS

APOLLO™ RA770 ENTERTAINMENT SYSTEM

RV-RA770

The Apollo series led by the Apollo RA770 takes audio entertainment to the next level. Through creative design and technological brilliance, our purpose-built outdoor audio entertainment system includes many innovations your customers are used to at home.

The Apollo RA770 is designed to work seamlessly with its perfect companion, the SRX400. Both feature built-in Wi-Fi® so your customers can wirelessly connect them to enjoy enhanced PartyBus™-Network capabilities including Stereo Grouping, Power Options, Volume Control and Home Zone. Other features include Fusion® DSP technology for a superior listening experience, high-quality Wi-Fi® audio streaming with Apple AirPlay® 2, over-the-air software updates and more.

Apollo RV-RA770 offers:

AUDIO SOURCES

- AirPlay® 2
- UPnP
- BLUETOOTH®
- Optical in
- USB
- iPhone®, iPod®
- MTP
- AUX x2
- AM/FM Radio
- SiriusXM® Ready¹
- DAB+ Ready (requires MS-DAB100A module)



RA210 STEREO

MS-RA210

The MS-RA210 compact stereo is designed to deliver a quality audio entertainment experience. The MS-RA210 features Fusion's modern design aesthetics and revolutionary Digital Signal Processing technology for optimized listening in any environment. The sleek design with the option of either mounting the stereo with a conventional flush finish or integrating it flat ensures a visually appealing finish to your dash, making the MS-RA210 a stylish addition to your RV.



APOLLO™ WB675 HIDEAWAY STEREO

MS-WB675

Apollo WB675 inherits key audio innovations and technological brilliance from the Apollo RA670, re-engineered in a compact, space saving form factor designed to simplify dash space. Key features include Fusion's Digital Signal Processing Technology, enhanced PartyBus™-Network capabilities, Wi-Fi audio streaming with Apple AirPlay® 2, over-the-air software updates and more source options including Optical Audio for connection to TVs. The Apollo WB675 also has enhanced connectivity options giving you convenience and flexibility when controlling your entertainment system, in up to four separate audio zones.



APOLLO™ RA670 STEREO

MS-RA670

Featuring modern design and aesthetics, this stereo inherits key audio innovations and revolutionary technology from the award-winning Apollo RA770, reimagined in a compact form factor.



APOLLO™ SRX400 ACCESSORY ZONE STEREO

MS-SRX400

The compact Apollo SRX400 is a companion to the RA770 and features Fusion® DSP technology, PartyBus™-Network capabilities, over-the-air software updates, built-in Wi-Fi®, 2.7" color display, Class-D amplifier, front IPX6 and IPX7 rating, and Fusion Audio control.



PANEL-STEREO ENTERTAINMENT SOLUTION

PS-A302B

Outstanding onboard audio from a single product is only a Panel-Stereo away. An impressive collection of acoustic features with brilliant design ensures your customers can enjoy quality music anywhere on board from the convenience of a single unit.

PS-A302B offers:

AUDIO SOURCES

- BLUETOOTH®
- USB
- iPhone®, iPod®
- AUX x2
- AOA
- AM/FM Radio

Experience premium, optimized audio with the perfectly tuned enclosure, combining built-in amplification, stereo source select, two 3" speakers and large surface bass radiator. An unbelievably smooth frequency response is produced with Fusion® Digital Signal Processing, along with high efficiency for outstanding audio reproduction — all from a one-piece, easy-to-install design.



¹SiriusXM for use in the USA only. Requires optional SiriusXM Connect vehicle tuner (not included).



SPEAKERS AND SUBWOOFERS

FUSION® SIGNATURE SERIES 3i SPEAKERS AND SUBWOOFERS

Bring on the elements. The Signature Series 3i speakers and subwoofers deliver crystal-clear audio and withstand the elements like never before. Choose from designs with or without CRGBW LED lighting.

XS SERIES SPEAKERS AND SUBWOOFERS

Enjoy high-performance acoustics season after season with the XS Series range. This series is designed to bring your customers the trademark quality audio reproduction from Fusion®, enhanced aesthetics and RGB LED lighting, all at a midrange price point. Built for versatility and ease of integration, it gives you the option of creating a 2.1 audio zone to simplify installation and reduce system cost without the need for an external amplifier. The XS Series is available in 4", 6.5" and 7.7" speakers and 10" subwoofers with sports and classic grille styles to suit a wide range of vehicles.

FM SERIES SPEAKERS AND SUBWOOFERS

The FM Series is designed to deliver quality acoustics — indoors or outdoors — with a sleek, minimalistic look that adds style to the interior or exterior of your RV. The innovative flush mount system allows for a mounting profile no thicker than 2.5 mm (0.1"), resulting in a near flat finish. Available in 6.5" and 7.7" speakers and 10" subwoofers with four styles: round white, round black, square white and square black, the FM Series blends seamlessly with the aesthetics of a wide range of vehicles.

SM SERIES SPEAKERS

The SM Series is designed for installation where mounting depth is limited. The shallow-mounting depth of only 24 mm (0.94") allows for mounting in thin wall cavities and cupboard panels. These speakers are designed with a sealed, perfectly tuned enclosure to deliver quality audio reproduction, indoors or outdoors. The SM Series also has three optional accessory mounting spacers (sold separately) to allow for more versatility during installation.

SOUND-PANEL SPEAKERS

The Sound-Panel solves the age-old problem of achieving professional quality audio from the limitations of shallow mounting depths often required in many installations. These speakers boast two soft dome tweeters, two custom 4" speaker drivers, and a bass radiator, all perfectly tuned to the Sound-Panel enclosure. Together this brings 200 Watts of powerful, high-quality audio to your vehicle.

ACCESSORIES

CRGBW WIRELESS REMOTE

Take full control of the LED lighting options for your Fusion CRGBW speakers and subwoofers. Your customers will be able to control the color using the intuitive color select wheel and adjust the brightness, light mode and speed with a touch of a button.

APOLLO™ ERX400 WIRED REMOTE

MS-ERX400

Intuitive audio control in a sleek, compact form factor, the Apollo ERX400 wired remote with Ethernet connectivity features an optically bonded 2.7" color LCD, intuitive user experience and an ultra-shallow mounting depth.



ARX REMOTE

MS-ARX70B/MS-ARX70W

Retrofit Fusion ANT-enabled systems with the MS-ARX70 ANT remote to enjoy the freedom and convenience of wireless audio control from anywhere around the RV. Your customers can control their music anytime, anywhere with the ARX remote. Rated both IPX6 and IPX7 water resistant, the remote is perfect for the living room, bedroom, outdoors or anywhere they might want quick access to audio adjustments. Including an impressive typical 3-year battery life, onboard audio control has never been so easy.

This remote can be used across a variety of Fusion ANT enabled products, including the Apollo™ RA770, Apollo™ RA670, Apollo™ WB675, MS-RA210, PS-A302B, RA70 Series and MS-BB100 stereos. Featuring rubberized tactile buttons and light-bar, the ARX70 is simple and easy to use, even in both wet and low light conditions. The LED lights in the light bar provide essential user feedback as customers control their audio playback.



AMPLIFIERS

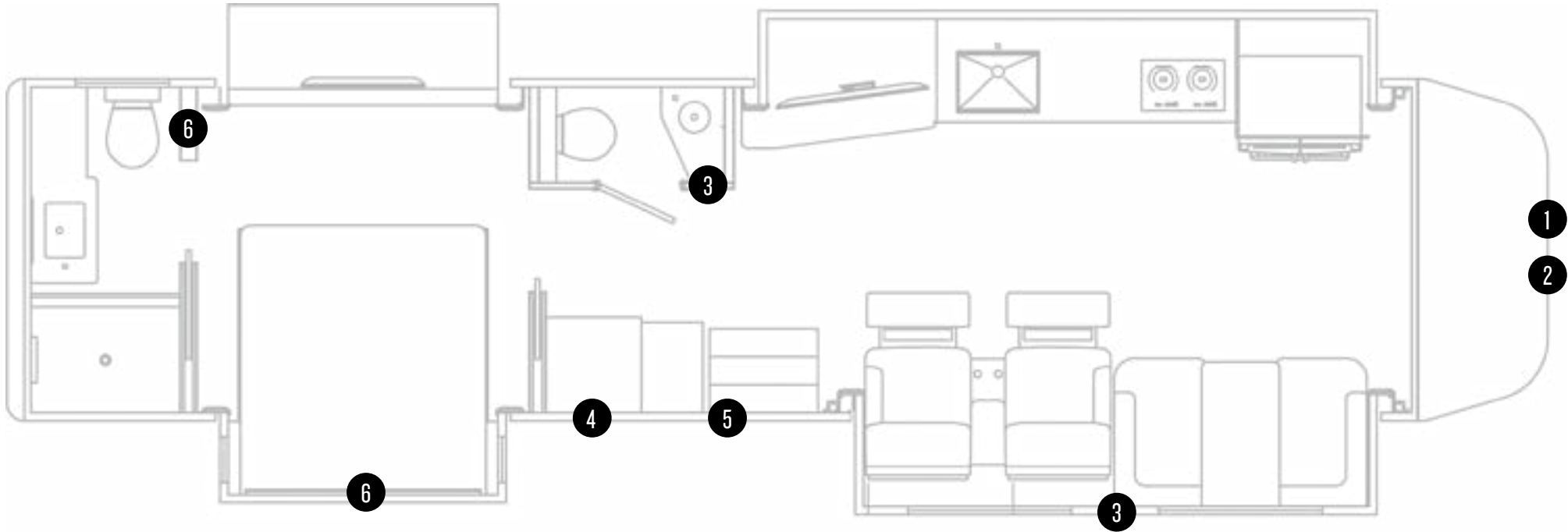
APOLLO AMPLIFIERS

These efficient, easy-to-install amplifiers work with your compatible Fusion® DSP-enabled stereos (Apollo RA770, Apollo RA670, Apollo WB675 and MS-RA210) and Fusion speakers. Choose from monoblock, multichannel and zone amplifier options.



RV PRODUCT ECOSYSTEMS

Combining industry-leading technology, the Garmin solution for RVs provides your customers with a completely connected system. Effortless control, superior navigation and top-of-the-line entertainment let you and your customers have an on-the-road experience like no other.



1 GARMIN VIEO™ RV 1051 – 10" PORTABLE DISPLAY

Combine Garmin navigation, premium Fusion® entertainment and optional EmpirBus™ technology in a single portable display that can go wherever you go in your RV. Available in 7", 8" or 10" sizes.

2 FUSION APOLLO™ RA770 STEREO

Take audio entertainment to the next level with a purpose-built stereo that features Multi-Zone™ Technology, PartyBus™-Network capabilities such as Stereo Grouping, audio streaming with Wi-Fi® technology — including the AirPlay® 2 software feature¹ from Apple® — and more.

3 GARMIN SERV™ 7" DIGITAL SWITCHING DISPLAY

Use this sleek 7" touchscreen display, integrated with your Garmin, Fusion, EmpirBus and other RV OEM products, to control and monitor your vehicle's systems. The Garmin SERV display can integrate with IP security cameras and offers voice control for switching functions. It can be mounted in either portrait or landscape mode to fit wherever you need it on your RV.

4 GARMIN VIEO™ RV 851 – 8" PORTABLE DISPLAY

Bringing Garmin GPS map navigation together with premium Fusion® audio and optional EmpirBus™ networking technology, this 8" removable touchscreen display makes it easy to tailor a fully integrated control, guidance and infotainment system for your RV.

5 GARMIN TD 50 – 5" TOUCHSCREEN DISPLAY





Control and monitor onboard systems, such as lighting, air conditioning and more from a 5" touchscreen display.

6 GARMIN SERV+™ 10" DIGITAL SWITCHING SYSTEM DISPLAY

Offering control/display integration with your Garmin, Fusion, EmpirBus and other RV OEM products, this 10" multifunction touchscreen enables users to view IP security cameras, have voice command support and more. It mounts in portrait or landscape orientation for space-efficient installation.






¹Available when connected via Ethernet to a wireless network router (not included), Garmin MFD or Apollo Series stereo network enabled with Wi-Fi technology

ENTERTAINMENT SYSTEM COMPARISON

				
SPECS	RV-RA770	MS-RA670	MS-WB675	MS-SRX400
PEAK POWER	280 W (4x70 W)	280 W (4x70 W)	280 W (4x70 W)	140 W (2x70 W)
AMPLIFIER	Class-D	Class-D	Class-D	Class-D
MULTI-ZONE™ TECHNOLOGY	4 zones	3 zones	4 zones	No
DISPLAY	4.3" optically bonded color LCD touchscreen	2.7" optically bonded color LCD	No	2.7" optically bonded color LCD
LINE OUT	4 (1 x L + R per zone)	3 (1 x L + R per zone)	4 (1 x L + R per zone)	1 (1 x L + R)
SUBWOOFER OUT	4 (1 per zone)	3 (1 per zone)	4 (1 per zone)	1 (mono output)
AUXILIARY INPUTS	2 x RCA inputs	1 x RCA input	1 x RCA input	No
SOURCES				
TUNER	AM/FM with RDS (where available)	AM/FM with RDS (where available)	AM/FM with RDS (where available)	AM/FM with RDS (where available)
BUILT-IN WI-FI®	Yes	No	No	Yes
iPod®/iPhone®	Yes	Yes	Yes	No
ANDROID™/Windows® MTP SUPPORT	Yes	Yes	Yes	No
AOA SUPPORT	Yes	Yes	Yes	Yes
USB	Yes - 1 connection	Yes - 1 connection	Yes - 1 connection	No
BLUETOOTH® WIRELESS TECHNOLOGY	Yes	Yes	Yes	Yes
SIRIUSXM® READY	Yes (continental U.S. and Canada only)	Yes (continental U.S. and Canada only)	Yes (continental U.S. and Canada only)	No
OPTICAL AUDIO INPUT	Yes	Yes	Yes	No
DAB+ READY	Yes	Yes	Yes	No
CONNECTIVITY				
FUSION AUDIO CONTROL VIA NMEA 2000®	Yes	Yes	Yes	No
FUSION AUDIO CONTROL VIA ETHERNET/WI-FI	Yes	Yes¹	Yes¹	Yes
FUSION AUDIO CONTROL VIA BLUETOOTH	Yes	Yes	Yes	Yes
FUSION AUDIO CONTROL VIA ANT® TECHNOLOGY	Yes	Yes	Yes	No
MECHANICAL DESIGN				
WATER RESISTANCE (IP RATING)	IPX6 and IPX7 front panel	IPX6 and IPX7 front panel	IPX2	IPX6 and IPX7 front panel
CHASSIS	Electrically isolated, impact-resistant plastic	Electrically isolated, impact-resistant plastic	Electrically isolated, impact-resistant plastic with heat sink	Electrically isolated, impact-resistant plastic
MOUNTING OPTIONS	Flush and flat	Flush and flat	Surface	Flush and flat
WARRANTY	3 years	3 years	3 years	3 years








NOTE: All full-range and subwoofer line outs require external amplification.
¹An external router is required for Wi-Fi² connectivity (sold separately) • Wi-Fi is a registered trademark of the Wi-Fi Alliance.

ENTERTAINMENT SYSTEM COMPARISON

					
SPECS	MS-RA210	MS-RA70 MS-RA70N MS-RA70NSX	MS-RA60	MS-BB100	PS-A302B
PEAK POWER	200 W (4x50 W)	200 W (4x50 W)	180 W (4x45 W)	200 W (4x50 W)	140 W
AMPLIFIER	Class-D	Class-AB	Class-D	Class-AB	Class-D
MULTI-ZONE™ TECHNOLOGY	2 zones	2 zones	2 zones	2 zones	No
DISPLAY	2.7" optically bonded color LCD	2.6" optically bonded monochrome LCD	2.3" perimeter bonded monochrome LCD	No	No
LINE OUT	2 (1 x L + R per zone)	2 (1 x L + R per zone)	1 (1 x L + R zone 1)	2 (1 x L + R per zone)	1 x RCA output
SUBWOOFER OUT	2 (1 per zone)	1 (zone 1)	1 (zone 1)	1 (zone 1)	No
AUXILIARY INPUTS	1 x RCA input	1 x RCA input	1 x RCA input	1 x RCA input	2 x RCA inputs
SOURCES					
TUNER	AM/FM with RDS (where available)	AM/FM with RDS (where available)	AM/FM with RDS (where available)	AM/FM with RDS (where available)	AM/FM
BUILT-IN WI-FI®	No	No	No	No	No
iPod®/iPhone®	Yes	Yes	No	Yes	Yes
ANDROID™/Windows® MTP SUPPORT	Yes	No	No	No	No
AOA SUPPORT	Yes	Yes	No	Yes	Yes
USB	Yes - 1 connection	Yes - 1 connection	No	Yes - 1 connection	Yes - 1 connection
BLUETOOTH® WIRELESS TECHNOLOGY	Yes	Yes	Yes	Yes	Yes
SIRIUSXM® READY	Yes (continental U.S. and Canada only)	MS-RA70NSX only (continental U.S. and Canada only)	No	No	No
OPTICAL AUDIO INPUT	No	No	No	No	No
DAB+ READY	Yes	MS-RA70 and MS-RA70N only	Yes	Yes	No
CONNECTIVITY					
FUSION AUDIO CONTROL VIA NMEA 2000®	Yes	MS-RA70N and MS-RA70NSX only	No	Yes	No
FUSION AUDIO CONTROL VIA ETHERNET/WI-FI	No	No	No	No	No
FUSION AUDIO CONTROL VIA BLUETOOTH	Yes	Yes	Yes	Yes	Yes
FUSION AUDIO CONTROL VIA ANT® TECHNOLOGY	Yes	Yes	Yes	Yes	Yes
MECHANICAL DESIGN					
WATER RESISTANCE (IP RATING)	IPX6 and IPX7 front panel	IPX7 front panel	IPX6 and IPX7 front panel	IPX3 black box with IPX7 remote	IP65
CHASSIS	Electrically isolated, impact-resistant plastic	Glass reinforced composite	Electrically isolated, impact-resistant plastic	Aluminum	Sealed chassis
MOUNTING OPTIONS	Flush and flat	Flush and flat	Flush and flat	Flush and flat (remote)	Flush, flat and surface
WARRANTY	1 year	1 year	1 year	1 year	1 year




NOTE: All full-range and subwoofer line outs require external amplification.

SIGNATURE SERIES 3i SPEAKER COMPARISON


							
SPECS	SG-FL883SPW SG-FL883SPG	SG-F883W	SG-FL773SPW SG-FL773SPG SG-F773SPG	SG-F773W	SG-FL653SPW SG-FL653SPG SG-F653SPW SG-F653SPG	SG-F653W	SG-TW101SPW
SPEAKER SIZE	8.8"	8.8"	7.7"	7.7"	6.5"	6.5"	1"
PEAK POWER (WATTS)	330	330	280	280	230	230	330
RMS POWER RATING (WATTS)	130	130	100	100	75	75	60
EFFICIENCY (1W/1M)	91 dB	91 dB	91 dB	91 dB	90 dB	90 dB	91 dB
FREQUENCY RESPONSE	50 Hz-20 kHz	50 Hz-20 kHz	60 Hz-22 kHz	60 Hz-22 kHz	70 Hz-22 kHz	70 Hz-22 kHz	3 kHz-20 kHz
IMPEDANCE	4 ohms	4 ohms	4 ohms	4 ohms	4 ohms	4 ohms	4 ohms
TWEETER TYPE	Silk dome	Silk dome	Silk dome	Silk dome	Silk dome	Silk dome	Aluminum dome
CONE MATERIAL	CURV®	CURV®	CURV®	CURV®	CURV®	CURV®	N/A
VOICE COIL DIAMETER	1.5"	1.5"	1.4"	1.4"	1.2"	1.2"	1"
MOUNTING DIAMETER CLEARANCE	188 mm [7-3/8"]	188 mm [7-3/8"]	156 mm [6-1/8"]	156 mm [6-1/8"]	136 mm [5-3/8"]	136 mm [5-3/8"]	51 mm [2"]
MOUNTING DEPTH CLEARANCE	105 mm [4-1/8"]	105 mm [4-1/8"]	86 mm [3-3/8"]	86 mm [3-3/8"]	79 mm [3-1/8"]	79 mm [3-1/8"]	31 mm [1-1/4"]
LED LIGHTING	CRGBW	No	CRGBW¹	No	CRGBW¹	No	No
WARRANTY	3 years	3 years	3 years	3 years	3 years	3 years	3 years

¹Sports style with LED models only


WAKE TOWER SPEAKERS COMPARISON

			
SPECS	SG-FLT883SPW SG-FLT883SPB	SG-FLT653SPW SG-FLT653SPB	XS-FLT652SPW XS-FLT652SPB
SPEAKER SIZE	8.8"	6.5"	6.5"
PEAK POWER (WATTS)	330	230	200
RMS POWER RATING (WATTS)	130	75	50
EFFICIENCY (1W/1M)	91 dB	90 dB	91 dB
FREQUENCY RESPONSE	50 H-20 kHz	70 Hz-22 kHz	80 kHz-18 kHz
IMPEDANCE	4 ohms	4 ohms	4 ohms
TWEETER TYPE	Silk dome	Silk dome	Aluminum dome
CONE MATERIAL	CURV®	CURV®	Polypropylene
VOICE COIL DIAMETER	1.5"	1.2"	1.18"
MOUNTING DIAMETER CLEARANCE	(Enclosure diameter) 224 mm [8-13/16"]	(Enclosure diameter) 176 mm [6-15/16"]	(Enclosure diameter) 177 mm [6-13/16"]
MOUNTING DEPTH CLEARANCE	(Enclosure depth) 385 mm [15-3/16"]	(Enclosure depth) 234 mm [9-1/4"]	(Enclosure depth) 223 mm [8-13/4"]
LED LIGHTING	CRGBW	CRGBW	RGB
WARRANTY	3 years	3 years	3 years


XS SERIES SPEAKER COMPARISON

					
SPECS	XS-FL77SPGW XS-F77SPGW	XS-F77CWB	XS-FL65SPGW XS-F65SPGW	XS-F65CWB	XS-F40CWE
SPEAKER SIZE	7.7"	7.7"	6.5"	6.5"	4"
PEAK POWER (WATTS)	240	240	200	200	120
RMS POWER RATING (WATTS)	60	60	50	50	30
EFFICIENCY (1W/1M)	92 dB	92 dB	91 dB	91 dB	87 dB
FREQUENCY RESPONSE	70 Hz-18 kHz	70 Hz-18 kHz	80 Hz-18 kHz	80 Hz-18 kHz	100 Hz-18 kHz
IMPEDANCE	4 ohms	4 ohms	4 ohms	4 ohms	4 ohms
TWEETER TYPE	Aluminum dome	Aluminum dome	Aluminum dome	Aluminum dome	Aluminum dom
CONE MATERIAL	Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene
VOICE COIL DIAMETER	1.18"	1.18"	1.18"	1.18"	1"
MOUNTING DIAMETER CLEARANCE	162 mm [6-3/8"]	162 mm [6-3/8"]	135 mm [5-5/16"]	135 mm [5-5/16"]	99 mm [3-7/8"]
MOUNTING DEPTH CLEARANCE	77 mm [3"]	77 mm [3"]	67 mm [2-2/8"]	67 mm [2-2/8"]	54 mm [2-1/8"]
LED LIGHTING	RGB (XS-FL77SPGW only)	No	RGB (XS-FL65SPGW only)	No	No
WARRANTY	3 years	3 years	3 years	3 years	3 years


FM SERIES / SPEAKER COMPARISON

				
SPECS	FM-F77RW FM-F77RB	FM-F77SW FM-F77SB	FM-F65RW FM-F65RB	FM-F65SW FM-F65SB
SPEAKER SIZE	7.7"	7.7"	6.5"	6.5"
PEAK POWER (WATTS)	200	200	120	120
RMS POWER RATING (WATTS)	50	50	30	30
EFFICIENCY (1W/1M)	91 dB	91 dB	87 dB	87 dB
FREQUENCY RESPONSE	80 Hz-18 kHz	80 Hz-18 kHz	100 Hz-18 kHz	100 Hz-18 kHz
IMPEDANCE	4 ohms	4 ohms	4 ohms	4 ohms
TWEETER TYPE	Aluminum dome	Aluminum dome	Aluminum dome	Aluminum dome
CONE MATERIAL	Polypropylene	Polypropylene	Polypropylene	Polypropylene
VOICE COIL DIAMETER	165 mm [6-1/2"]	165 x 165 mm [6-1/2" x 6-1/2"]	138 mm [5-7/16"]	138 x 138 mm [5-7/16" x 5-7/16"]
MOUNTING DIAMETER CLEARANCE	83 mm [3-1/4"]	83 x 83 mm [3-1/4" x 3-1/4"]	70 mm [2-3/4"]	70 x 70 mm [2-3/4" x 2-3/4"]
MOUNTING DEPTH CLEARANCE	No	No	No	No
LED LIGHTING	No	No	No	No
WARRANTY	3 years	3 years	3 years	3 years

SM SERIES / EL SERIES SPEAKER COMPARISON






			
SPECS	SM-F65CW SM-F65CB	EL-F651SPG	EL-F653W EL-F653B EL-F653SPG
SPEAKER SIZE	6.5"	6.5"	6.5"
PEAK POWER (WATTS)	100	80	80
RMS POWER RATING (WATTS)	-	-	-
EFFICIENCY (1W/1M)	84 dB	88 dB	88 dB
FREQUENCY RESPONSE	150 Hz-20 kHz	45 Hz-16 kHz	45 Hz-16 kHz
IMPEDANCE	4 ohms	4 ohms	4 ohms
TWEETER TYPE	N/A	N/A	N/A
CONE MATERIAL	Polypropylene	Polypropylene	Polypropylene
MOUNTING DIAMETER CLEARANCE	130 mm [5-1/8"]	130 mm [5-1/8"]	130 mm [5-1/8"]
MOUNTING DEPTH CLEARANCE	24 mm [15/16"]	43 mm [1-11/16"]	43 mm [1-11/16"]
LED LIGHTING	No	RGB	No
WARRANTY	1 year	1 year	1 year

SUBWOOFER COMPARISON







							
SPECS	SG-SL123SPW SG-SL123SPG	SG-S103W	SG-SL103SPW SG-SL103SPG G-S103SPG	XS-SL10SPGW XS-S10SPGW	SG-S10CWB	FM-S10RW FM-S10RB	FM-S10SW FM-S10SB
SUBWOOFER SIZE	12"	10"	10"	10"	10"	10"	10"
PEAK POWER (WATTS)	1400	600	600	600	600	400	400
RMS POWER RATING (WATTS)	700	300	300	120	120	120	120
EFFICIENCY (1W/1M)	86 dB	86 dB	86 dB	86 dB	86 dB	86 dB	86 dB
MAGNETIC STRUCTURE	113 oz	68 oz	68 oz	41 oz	41 oz	41 oz	41 oz
FREQUENCY RESPONSE	20 Hz-2 kHz	30 Hz-2 kHz	30 Hz-2 kHz	30 Hz-2 kHz	30 Hz-2 kHz	30 Hz-2 kHz	30 Hz-2 kHz
IMPEDANCE	4 ohms	4 ohms	4 ohms	4 ohms	4 ohms	4 ohms	4 ohms
VOICE COIL DIAMETER	4"	2"	2"	1.5"	1.5"	1.5"	1.5"
MOUNTING DIAMETER CLEARANCE	306 mm [12-1/16"]	223 mm [8-3/4"]	223 mm [8-3/4"]	223 mm [8-3/4"]	223 mm [8-3/4"]	269 mm [10-9/16"]	269 mm x 269 mm [10-9/16" x 10-9/16"]
MOUNTING DEPTH CLEARANCE	207 mm [8-3/16"]	133 mm [5-1/4"]	133 mm [5-1/4"]	113 mm [4-1/2"]	113 mm [4-1/2"]	140 mm [5-1/2"]	140 mm [5-1/2"]
LED LIGHTING	CRGBW	No	CRGBW ¹	RGB (XS-SL10SPGW only)	No	No	No
WARRANTY	3 years	3 years	3 years	3 years	3 years	3 years	3 years

¹Sports style with LED models only



APOLLO AMPLIFIER COMPARISON

					
SPECS	AP-DA214	MS-AP12000	MS-AP41200	MS-AP61800	MS-AP82400
PEAK POWER (WATTS)	140	2000	1200	1800	2400
AMPLIFIER CLASS	Class-D	Class-D	Class-D	Class-D	Class-D
FREQUENCY RESPONSE	20 Hz - 20 kHz (-3dB, dB @ 4 ohm rated power)	20 Hz - 3.5 kHz (-3dB, dB @ 4 ohm rated power)	20 Hz - 20 kHz (-3dB, dB @ 4 ohm rated power)	20 Hz - 20 kHz (-3dB, dB @ 4 ohm rated power)	20 Hz - 20 kHz (-3dB, dB @ 4 ohm rated power)
OPERATING VOLTAGE	10.8 V - 32 V DC	10.8 V - 16 V DC	10.8 V - 16 V DC	10.8 V - 16 V DC	10.8 V - 16 V DC
FUSE RATINGS	16 A electronic fuse	125 A electronic fuse	85 A electronic fuse	125 A electronic fuse	125 A electronic fuse
UNDER/OVER VOLTAGE PROTECTION	Yes	Yes	Yes	Yes	Yes
TOTAL RATED POWER OUTPUT 4 OHM	20-watt RMS x 2 @ 14.4 V input - 4 ohm < 1% THD	650-watt RMS x 1 @ 14.4 V input - 4 ohm < 1% THD	150-watt RMS x 4 @ 14.4 V input - 4 ohm < 1% THD	150-watt RMS x 6 @ 14.4 V input - 4 ohm < 1% THD	150-watt RMS x 8 @ 14.4 V input - 4 ohm < 1% THD
TOTAL RATED POWER OUTPUT 2 OHM	30-watt RMS x 2 @ 14.4 V input - 2 ohm < 1% THD	1100-watt RMS x 1 @ 14.4 V input - 2 ohm < 1% THD	290-watt RMS x 4 @ 14.4 V input - 2 ohm < 1% THD	290-watt RMS x 6 @ 14.4 V input - 2 ohm < 1% THD	290-watt RMS x 8 @ 14.4 V input - 2 ohm < 1% THD
TOTAL RATED POWER OUTPUT	-	-	580-watt RMS x 2 @ 14.4 V input - 4 ohm bridged < 1% THD	580-watt RMS x 3 @ 14.4 V input - 4 ohm bridged < 1% THD	580-watt RMS x 4 @ 14.4 V input - 4 ohm bridged < 1% THD
SIGNAL TO NOISE RATIO @ RATED POWER OUTPUT, 4 OHM	>99 dB	>101 dBA	>97 dBA	>97 dBA	>97 dBA
SEPARATION/CROSSTALK	>72 dB	-	>61 dB	>58 dB	>58 dB
HP VARIABLE CROSSOVER	Configurable via FusionLink DSP profile	Configurable via FusionLink DSP profile	Configurable via FusionLink DSP profile	Configurable via FusionLink DSP profile	Configurable via FusionLink DSP profile
LP VARIABLE CROSSOVER	Configurable via Fusion-Link™ DSP profile	Configurable via Fusion-Link™ DSP profile	Configurable via Fusion-Link™ DSP profile	Configurable via Fusion-Link™ DSP profile	Configurable via Fusion-Link™ DSP profile
WITH MOUNTING BRACKET	Depth: 47.5 mm [1.87"] Width: 100 mm [3.94"] Height: 115 mm [4.53"]	Depth: 50 mm [2.13"] Width: 235 mm [9.25"] Height: 180 mm [7.06"]	Depth: 50 mm [2.13"] Width: 235 mm [9.25"] Height: 180 mm [7.06"]	Depth: 50 mm [2.13"] Width: 297 mm [11.69"] Height: 180 mm [7.06"]	Depth: 50 mm [2.13"] Width: 359 mm [14.13"] Height: 180 mm [7.06"]
WARRANTY	3 years	3 years	3 years	3 years	3 years

SIGNATURE SERIES AMPLIFIER COMPARISON

						
SPECS	SG-DA12250	SG-DA41400	SG-DA51600	SG-24DA61500	SG-DA61500	SG-DA82000
PEAK POWER (WATTS)	2250	1400	1600	1500	1500	2000
AMPLIFIER CLASS	Class-D	Class-D	Class-D	Class-D	Class-D	Class-D
FREQUENCY RESPONSE	10 Hz - 300 Hz - 3 dB (subwoofer)	10 Hz - 50 kHz - 3dB	10 Hz - 50 kHz - 3dB	10 Hz - 50 kHz - 3dB	10 Hz - 40 kHz - 3 dB	10 Hz - 40 kHz - 3 dB
OPERATING VOLTAGE	10.8 - 16 V DC	10.8 - 16 V DC	10.8 - 16 V DC	21.6 V to 32 V DC	10.8 - 16 V DC	10.8 - 16 V DC
FUSE RATINGS	3 x 40 A	2 x 40 A	2 x 40 A	3 x 20 A	3 x 40 A	4 x 40 A
UNDER/OVER VOLTAGE PROTECTION	Yes	Yes	Yes	Yes	Yes	Yes
TOTAL RATED POWER OUTPUT 4 OHM	500 W RMS x 1 @ 14.4 V - 4 ohm 1% THD	150 W RMS x 4 @ 14.4 V - 4 ohm 1% THD	80 W RMS x 4 + 250 W RMS x 1 @ 14.4 V - 4 ohm 1% THD	100 W RMS x 6 @ 28.8 V input < 1% THD	100 W RMS x 6 @ 14.4 V - 4 ohm 1% THD	100 W RMS x 8 @ 14.4 V - 4 ohm 1% THD
TOTAL RATED POWER OUTPUT 2 OHM	850 W RMS x 1 @ 14.4 V - 2 ohm 1% THD	220 W RMS x 4 @ 14.4 V - 2 ohm 1% THD	130 W RMS x 4 + 330 W RMS x 1 @ 14.4 V - 2 ohm 1% THD	140 W RMS x 6 @ 28.8 V input < 1% THD	140 W RMS x 6 @ 14.4 V - 2 ohm 1% THD	140 W RMS x 8 @ 14.4 V - 2 ohm 1% THD
TOTAL RATED POWER OUTPUT	1100 W RMS x 1 @ 14.4 V - 1 ohm 1% THD	440 W RMS x 2 @ 14.4 V - 4 ohm bridged 1% THD	250 W RMS x 2 @ 14.4 V - 4 ohm bridged 1% THD + 250 W RMS x 1 @ 14.4 V - 4 ohm 1% THD	280 W RMS x 3 @ 28.8 V input - 4 ohm bridged < 1% THD	280 W RMS x 3 @ 14.4 V - 4 ohm bridged 1% THD	280 W RMS x 4 @ 14.4 V - 4 ohm bridged 1% THD
SIGNAL TO NOISE RATIO @ RATED POWER OUTPUT, 4 OHM	>80 dB	>95 dB	>95 dB	>85 dB	>85 dB	>85 dB
SEPARATION/CROSSTALK	-	>45 dB	>45 dB	>60 dB	>60 dB	>60 dB
HP VARIABLE CROSSOVER	10 Hz - 80 Hz (subwoofer)	32 Hz - 320 Hz	32 Hz - 320 Hz	32 Hz - 320 Hz	32 Hz - 320 Hz	32 Hz - 320 Hz
LP VARIABLE CROSSOVER	32 Hz - 320 Hz (subwoofer)	32 Hz - 320 Hz	32 Hz - 320 Hz	32 Hz - 320 Hz	32 Hz - 320 Hz	32 Hz - 320 Hz
MOUNTING DIMENSIONS	Length: 300 mm [11-13/16"] Width: 210 mm [8-1/4"] Height: 50 mm [2"]	Length: 300 mm [11-13/16"] Width: 210 mm [8-1/4"] Height: 50 mm [2"]	Length: 300 mm [11-13/16"] Width: 210 mm [8-1/4"] Height: 50 mm [2"]	Length: 420 mm [16-9/16"] Width: 210 mm [8-1/4"] Height: 57 mm [2-1/4"]	Length: 420 mm [16-9/16"] Width: 210 mm [8-1/4"] Height: 57 mm [2-1/4"]	Length: 420 mm [16-9/16"] Width: 210 mm [8-1/4"] Height: 57 mm [2-1/4"]
WARRANTY	3 years	3 years	3 years	3 years	3 years	3 years

AM AMPLIFIER COMPARISON

		
SPECS	MS-AM504	MS-AM402
PEAK POWER (WATTS)	500	400
AMPLIFIER CLASS	Class-AB	Class-AB
FREQUENCY RESPONSE	5 Hz - 38 kHz - 3 dB	5 Hz - 38 kHz - 3 dB
OPERATING VOLTAGE	10.8 - 16 V DC	10.8 - 16 V DC
FUSE RATINGS	2 x 25 A	1 x 25 A
UNDER/OVER VOLTAGE PROTECTION	No	No
TOTAL RATED POWER OUTPUT 4 OHM	65 W RMS x 4 @ 14.4 V - 4 ohm 1% THD	65 W RMS x 2 @ 14.4 V - 4 ohm 1% THD
TOTAL RATED POWER OUTPUT 2 OHM	100 W RMS x 4 @ 14.4 V - 2 ohm 1% THD	100 W RMS x 2 @ 14.4 V - 2 ohm 1% THD
TOTAL RATED POWER OUTPUT 4 OHM BRIDGED	200 W RMS x 2 @ 14.4 V - 4 ohm Bridged 1% THD	200 W RMS x 1 @ 14.4 V - 4 ohm Bridged 1% THD
SIGNAL TO NOISE RATIO @ RATED POWER OUTPUT, 4 OHM	>95 dB	>95 dB
SEPARATION/CROSSTALK	>60 dB	>60 dB
HP VARIABLE CROSSOVER	40 Hz - 600 Hz	40 Hz - 600 Hz
LP VARIABLE CROSSOVER	40 Hz - 160 Hz	40 Hz - 160 Hz
MOUNTING DIMENSIONS	Length: 366 mm [14-7/16"] Width: 299 mm [9"] Height: 53 mm [2-1/16"]	Length: 296 mm [11-2/3"] Width: 299 mm [9"] Height: 53 mm [2-1/16"]
WARRANTY	1 year	1 year



GARMIN INTERNATIONAL, INC.
1200 E. 151ST ST.
OLATHE, KS 66062
U.S. 913-397-8200
U.S. toll-free: 800-800-1020
Canada: 866-429-9296
Europe: +44 0238 052 4145
Australia: 1300 736 012

+44 0238 052 4145
1300 736 012

RVOEM.sales@garmin.com

Garmin.com/RVOEM

Garmin Ltd. or its subsidiaries. All rights reserved. Specifications and design are subject to change without notice. FUSION is a registered trademark of Garmin Ltd. Fusion-Link, True-Marine, UNI-Dock, The Marine Entertainment Standard, Multi-Zone and all related marks and logos are trademarks of Garmin Ltd. All rights reserved. "Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod or iPhone respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance. App Store is a service mark of Apple Inc. Google Play and the Google Play logo are trademarks of Google LLC. NMEA 2000 is a registered trademark of the National Marine Electronics Association, Inc. Wi-Fi is a registered trademark of the Wi-Fi Alliance. ©2024 Tripadvisor LLC. All rights reserved. Foursquare is a registered trademark of Foursquare Labs, Inc. ©2024 Kampgrounds of America, Inc. Copyright ©2024 by iOverlander, LLC. NKC campercontact data. ©2024 Nederlandse Kampeersite Club N.K.C. The Bluetooth word mark and logos are registered trademarks owned by Bluetooth SIG, Inc., and any use of such marks by Garmin Ltd is under license. iPod, iPhone and Apple are trademarks of Apple Inc., registered in the U.S. and other countries. Android is a trademark of Google LLC. Sirius, XM and all related marks and logos are trademarks of Sirius XM Radio Inc. Apple, the Apple logo and iTunes are trademark of Apple Inc. registered in the U.S. and other countries. AirPlay and Apple are trademarks of Apple Inc., registered in the U.S. and other countries. All other trademarks and service marks mentioned herein, including company names, product names, service names and logos, are the property of their respective owners and their use herein does not indicate an affiliation with, association with, or endorsement of or by Garmin Ltd.