



GARMIN®

TWENTY TWENTY- TWO

R V C A T A L O G



GARMIN®

OPERATION, NAVIGATION AND ENTERTAINMENT. ONE COMPANY.

ONE SOLUTION, ONE COMPANY. WELCOME TO THE GARMIN BRAND FAMILY.

Combining industry-leading Garmin, Fusion® and EmpirBus™ technology, the Garmin 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 Graphics 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 Garmin’s support team assistance. Some of the features our graphics offer are:

CUSTOMIZABLE INTERFACE

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

Personalize layouts by uploading proprietary icons, buttons and images.

Create controls for every type of circuit switch or monitor.

Make changes to graphics and logic in-house with EmpirBus™ Studio and EmpirBus™ Graphics.

EmpirBus Graphics 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.



ELEGANT SIMPLICITY

The EmpirBus Digital Switching system is ideally suited to new-build installations.

- OEMs can choose the module(s) that best fits the power requirements and monitoring needs for each custom integration.
- Compiling the desired features into our provided module/channel templates lends to development of programming to meet each OEM’s needs.

Any programming can easily be reused for any new installation or modified for options. EmpirBus experts will help create a customized list of requirements and specifications that best apply to specific modules and accessories.

EMPIRBUS™ STUDIO

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

EMPIRBUS™ GRAPHIC

EmpirBus Graphic 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.



EMPIRBUS™ PRODUCTS

RV 7" FIXED DISPLAY RV 9" FIXED DISPLAY TD50

Garmin offers the RV 7" and 9" fixed displays to provide control and monitoring of onboard systems when used in conjunction with EmpirBus Digital Switching system. Control electronic systems such as lighting, air conditioning, blinds, slide-outs, entertainment systems and much more from a Garmin display. Additionally, Garmin created the TD50, a 5" display intended for use as a secondary EmpirBus 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 WEB DISPLAY UNIT

The EmpirBus™ Web Display (WDU) unit is a webserver unit that distributes customized graphics to any HTML5-supporting device. The WDU 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 and 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.

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 & services directory

ELEVATION PROFILE

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



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 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 view junction and photoreal junction view point the driver to the right path while the brightly colored onscreen arrows lead the way.

PHOTOREAL JUNCTION VIEW

The driver gets a realistic view of upcoming junctions on screens, 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 onscreen 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

RV-IN1501 INFOTAINMENT SYSTEM

RV-IN1501

The RV-IN1501 infotainment system for motorized recreational vehicles features an edge-to-edge, 15" integrated touchscreen display. This system merges RV-specific Garmin navigation, exceptional high-quality multi-zone audio entertainment powered by Fusion® Entertainment and integrated EmpirBus™ Digital Switching features.

RV-IN1501 provides:

SUPERIOR NAVIGATION

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

AUDIO SOURCES

- BLUETOOTH®
- USB
- AM/FM Radio
- iPhone®, iPod®
- Android™
- MTP
- AUX
- SiriusXM® Ready¹

DIGITAL SWITCHING COMPATIBLE

Enjoy the convenience of a fully connected RV with Garmin and EmpirBus Digital Switching technology to make your time on the road more enjoyable. Monitor and control electrical, electronic and mechanical systems on your RV. See everything from tank and battery levels to lighting, air conditioning and infotainment, all from one display.

FUSION-LINK™ WIRELESS

Equipped with Fusion-Link, the RV-IN1501 gives you full control of your entertainment experience, right from your fingertips. Independently control the audio in up to 4 different audio zones of your vehicle with Multi-Zone™ control. Even name each zone for convenience and easy use.

RV-IN1501 INFORMATION (U.S. ONLY)

SPECIFICATIONS	RV-IN1501
DISPLAY SIZE	15"
DISPLAY RESOLUTION	Portrait XGA: 1024 x 768
TOUCHSCREEN DISPLAY	Yes
DISPLAY BRIGHTNESS	>400 nits
GARMIN RV-SPECIFIC NAVIGATION	Yes
NAVIGATION VOICE CONTROL	Yes
MULTI-ZONE™ TECHNOLOGY	Yes
AMPLIFIED SPEAKER ZONES (LEFT, RIGHT)	2
AUDIO POWER OUTPUT, MAXIMUM @ 2 OHMS PER CHANNEL @ 10% THD+N	43 watts RMS
AUDIO POWER OUTPUT, MAXIMUM @ 4 OHMS PER CHANNEL @ 10% THD+N	26 watts RMS
RCA OUTPUT ZONES (LEFT, RIGHT AND SUBWOOFER)	4
BLUETOOTH® MUSIC STREAMING, MUSIC CONTROL (VIA DEVICES COMPATIBLE WITH A2DP/AVRCP 1.3 BLUETOOTH PROTOCOLS)	Yes
BLUETOOTH HANDS-FREE CALLING	Yes
SIRIUSXM READY (REQUIRES OPTIONAL SIRIUSXM CONNECT VEHICLE TUNER)	Yes
AM/FM	Yes
USB 2.0 PORT FOR PHONE CHARGING AND MEDIA	1
AUX-IN	1
IPOD®/IPHONE®/APPLE® AIRPLAY	Yes
WI-FI®	Yes
CAMERA INPUTS (ANALOG COMPOSITE VIDEO)	4
BACKUP CAMERA AUDIO-IN	Yes
CAN (VEHICLE AND SWITCHING INTEGRATION)	2
TURN ON LINES (IGNITION AND/OR HOUSE SWITCH)	2
ETHERNET	Yes
SD CARD PORT	Yes
MAPPING UPGRADES VIA WI-FI OR SD	Yes
SOFTWARE UPGRADES VIA WI-FI OR SD	Yes
MENU LANGUAGES	English / French Canadian / Spanish



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



GARMIN PRODUCTS

VIEO™ RV INFOTAINMENT SYSTEM

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

The Vioo 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 7", 8" and 10" removable Vioo 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.

Vioo 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®
- USB
- AM/FM Radio
- iPhone®, iPod®
- SD
- AUX
- Android™
- SiriusXM® Ready¹ (RV51 Dock)
- DAB+ Ready (RV51 Dock, requires MS-DAB100 module)
- Internal DAB Receiver (RV52 dock)
- DAB (only available in parts of Australia and Europe)

FUSION-LINK™ WIRELESS

Equipped with Fusion-Link, the Vioo series gives you full control of your entertainment experience, right from your fingertips. Independently control the audio in up to 4 different audio zones of your vehicle with Multi-Zone™ control. Even name each zone for convenience and easy use.

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



SPECIFICATIONS

	7" DISPLAY	8" DISPLAY	10" DISPLAY
TOUCH SCREEN	Yes	Yes	Yes
DISPLAY SIZE	6.0" W x 3.5" H (15.2 x 8.9 cm); 6.95" (17.7 cm)	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	.88 lbs, 14.2oz	.86 lbs, 13.8 oz	1.19 lbs, 19.1 oz
DISPLAY RESOLUTION	1024 x 600 WSVGA	1280 x 800 WXGA	1280 x 800 WXGA
BATTERY	Rechargeable lithium-ion	Rechargeable lithium-ion	Rechargeable lithium-ion
DISPLAY CONTROLS	Power, Volume Up/Down, micro USB, microSD™	Power, Volume Up/Down, micro USB, microSD™	Power, Volume Up/Down, micro USB, microSD™

¹SiriusXM for use in the U.S. only. Requires optional SiriusXM Connect vehicle tuner.

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-LINK CONTROL (WIRELESS)	Yes, via the Fusion-Link 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	Accomodates 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

A provider of RV entertainment solutions, Fusion® 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®, PartyBus™ and advanced Digital Signal Processing (DSP) power.

Fusion is 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-LINK™



Your customers can wirelessly control their entertainment right from their fingertips via BLUETOOTH® or Wi-Fi® with the free Fusion-Link 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-Link app on their compatible Apple® or Android™ device. They can also control entertainment right from their wrist with the free Fusion-Link™ Lite 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® 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 smartphone or compatible device via the free Fusion-Link app.

OUTDOOR-READY™ DESIGN

The Outdoor-Ready design philosophy from Fusion® stems from the company's collective experience confronting harsh outdoor environments. With Outdoor-Ready accreditation, 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 sound sent to 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.



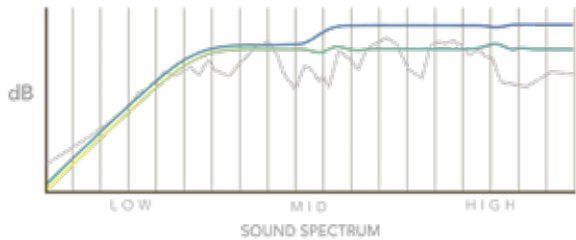
VOLUME EQUALIZER

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



SPEAKER AND ENVIRONMENTAL PROFILING

Enjoy optimized audio in any listening environment.

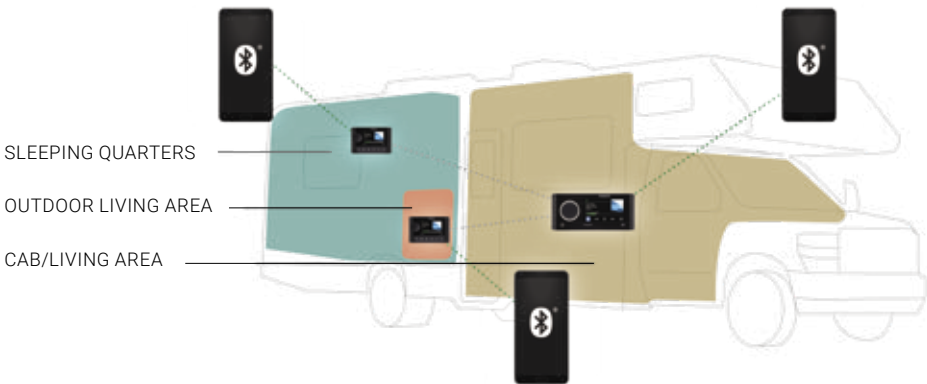


PARTYBUS™-NETWORK

The audio distribution network of the future from Fusion, 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 any Apollo™ Series stereo or Garmin infotainment product on the PartyBus Network from another Apollo Series stereo Garmin infotainment product
- Home zone: easy access to control where the stereo is installed.



FUSION STEREO UNITS

APOLLO™ RA770 ENTERTAINMENT SYSTEM

MS-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 RA770 offers:

AUDIO SOURCES

- AirPlay® 2
- UPnP
- BLUETOOTH®
- Optical in
- USB
- iPhone®, iPod®
- MTP
- AUX x2
- AM/FM Radio
- SiriusXM® Ready²
- DAB+ Ready (requires MS-DAB100A module)



APOLLO™ RA210 STEREO

MS-RA210

The MS-RA210 compact stereo is designed to deliver a quality audio entertainment experience. The MS-RA210 features Fusion's new-look 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™ WB670 STEREO

MS-WB670

Apollo WB670 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 capabilities¹, Wi-Fi audio streaming¹ with Apple AirPlay® 2, over-the-air software updates¹ and more source options including optical audio for connection to TVs. The Apollo WB670 also has enhanced connectivity options, giving you convenience and flexibility when controlling your entertainment system.



APOLLO™ RA670

MS-WB670

Featuring a modern design and aesthetics, this marine stereo inherits key audio innovations and revolutionary technology from the award-winning Apollo RA770, re-imagined 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-Link™ control.



WALL SPACER STEREO

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.

Now including an IP65 weatherproof and UV-resistant design in the PS-A302BOD outdoor, the panel-stereo range is all your customers need for quality listening anywhere on board.

¹Available when connected via Ethernet to a wireless network router (not included) or Apollo Series stereo network enabled with Wi-Fi® technology.
²SiriusXM for use in the U.S. only. Requires optional SiriusXM Connect vehicle tuner, not included.

SPEAKERS AND SUBWOOFERS

SIGNATURE SERIES 3 SPEAKERS AND SUBWOOFERS

Experience flagship audio performance now with premium CRGBW LED lighting. The Signature Series 3 range is available in 6.5", 7.7" and 8.8" speakers and 10" subwoofers with three grille design styles, including classic white, sports white and sports chrome.

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 are 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 (3/32"), resulting in a nearly 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 (15/16") 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 3 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 vessel.

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, new intuitive user experience and an ultra-shallow mounting depth.

AMPLIFIERS

SIGNATURE SERIES AMPLIFIERS

Experience the most powerful and efficient amplifiers from Fusion®. Featuring highly efficient Class-D technology offering low power consumption and reduced heat, they are available in Monoblock, 4-channel, 5-channel, 6-channel and 8-channel configurations. A new 24-volt 6-channel amplifier with 1500-watt peak power is specifically designed for vehicles operating on 24-volt electrical systems.



ARX REMOTE

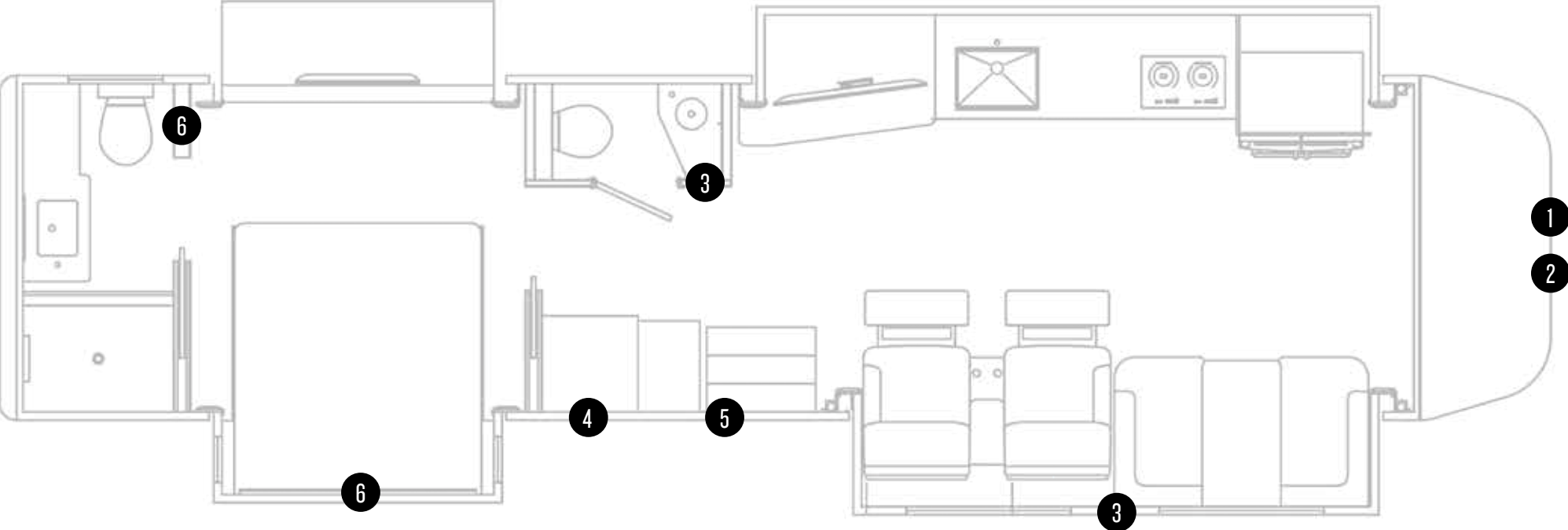
MS-ARX70B/MS-ARX70W

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™ WB670, 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.



RV PRODUCT ECOSYSTEMS



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 like Stereo Grouping, Wi-Fi® audio streaming with the Apple® AirPlay® 2 software feature and more.

3 GARMIN TD 50 – 5" FIXED DISPLAY

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

4 GARMIN RV-IN1501 – 15" FIXED DISPLAY

This 15" touchscreen system can be used as a central hub to control all of your RV technology. It merges world-class RV-specific Garmin navigation, exceptional high-quality multi-zone audio entertainment powered by Fusion® Entertainment and integrated EmpirBus™ digital switching features to put all your systems right at your fingertips.


5 GARMIN VIEO™ RV 751 – 7" PORTABLE DISPLAY

Use this display as a portable monitor to control onboard systems like slide-outs, security systems and more.

6 GARMIN RV 9 FD – 9" FIXED DISPLAY

Control and monitor onboard systems from the bedroom like floor heat, media, shades and more.

XS SERIES, FM SERIES AND SM SERIES COMPARISON

								
SPECIFICATIONS	XS-FL77SPGW XS-F77CWB	XS-FL65SPGW XS-F65CWB	XS-F40CWB	XS-SL10SPGW XS-S10CWB	FM-F77RW/RB FM-F77SW/SB	FM-F65RW/RB FM-F65SW/SB	FM-S10RW/RB FM-S10SW/SB	SM-F65CW SM-F65CB
SPEAKER SIZE	7.7"	6.5"	4"	10"	7.7"	6.5"	10"	6.5"
PEAK POWER (WATTS)	240	200	120	600	200	120	400	100
RMS POWER RATING (WATTS)	60	50	30	120	50	30	120	-
EFFICIENCY (1W/1M)	92dB	91dB	87dB	86dB	91dB	87dB	86dB	84dB
MAGNETIC STRUCTURE	-	-	-	41 oz	-	-	41 oz	-
FREQUENCY RESPONSE	70 Hz-18 kHz	80 Hz-18 kHz	100 Hz-18 kHz	30 Hz-2 kHz	80 Hz-18 kHz	100 Hz-18 kHz	30 Hz-2 kHz	150 Hz-20 kHz
IMPEDANCE	4 ohms	4 ohms	4 ohms	4 ohms	4 ohms	4 ohms	4 ohms	4 ohms
TWEETER TYPE	Aluminum dome	Aluminum dome	Aluminum dome	-	Aluminum dome	Aluminum dome	-	-
CONE MATERIAL	Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene
VOICE COIL DIAMETER	1.18"	1.18"	1"	1.5"	1.18"	1"	1.5"	2"
MOUNTING DIAMETER CLEARANCE	162 mm [6-3/8"]	135 mm [5-5/16"]	99 mm [3-7/8"]	223 mm [8-3/4"]	Round: 165 mm [6-1/2"] Square: 165 x 165 mm [6-1/2" x 6-1/2"]	Round: 138 mm [5-7/16"] Square: 138 x 138 mm [5-7/16" x 5-7/16"]	Round: 269 mm [10-9/16"] Square: 269 x 269 mm [10-9/16" x 10-9/16"]	130 mm [5-1/8"]
MOUNTING DEPTH CLEARANCE	77 mm [3"]	67 mm [2-1/4"]	54 mm [2-1/8"]	113 mm [4-1/2"]	Round: 83 mm [3-1/4"] Square: 83 x 83 mm [3-1/4" x 3-1/4"]	Round: 70 mm [2-3/4"] Square: 70 x 70 mm [2-3/4" x 2-3/4"]	Round: 140 mm [5-1/2"] Square: 140 x 140 mm [5-1/2" x 5-1/2"]	24 mm [15/16"]
LED LIGHTING	RGB (sports-style only)	RGB (sports-style only)	No	RGB (sports-style only)	No	No	No	No
WARRANTY	3 years	3 years	3 years	3 years	3 years	3 years	3 years	1 year

SIGNATURE SERIES AMPLIFIER COMPARISON

						
SPECIFICATIONS	SG-DA12250	SG-DA41400	SG-DA51600	SG-DA61500	SG-DA82000	SG-24DA61500
PEAK POWER (WATTS)	2250	1400	1600	1500	2000	1500
AMPLIFIER CLASS	Class-D	Class-D	Class-D	Class-D	Class-D	Class-D
FREQUENCY RESPONSE	10 Hz-300Hz-3dB (subwoofer)	10 Hz-50Hz-3dB	10 Hz-50Hz-3dB	10 Hz-40Hz-3dB	10 Hz-40Hz-3dB	10 Hz-40Hz-3dB
OPERATING VOLTAGE	10.8 - 16 V	10.8 - 16 V	10.8 - 16 V	10.8 - 16 V	10.8 - 16 V	21.6 - 32 V
MAXIMUM OPERATING CURRENT	120A	80A	80A	75A	100A	35A
FUSE RATINGS	3 x 40A	2 x 40A	2 x 40A	3 x 40A	4 x 40A	2 x 20A
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 @ 14.4 V - 4 ohm 1% THD	100 W RMS x 8 @ 14.4 V - 4 ohm 1% THD	100 W RMS x 6 @ 28.8 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 @ 14.4 V - 2 ohm 1% THD	140 W RMS x 8 @ 14.4 V - 2 ohm 1% THD	140 W RMS x 6 @ 28.8 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 @ 14.4 V - 4 ohm bridged 1% THD	280 W RMS x 4 @ 14.4 V - 4 ohm bridged 1% THD	280 W RMS x 3 @ 28.8 V - 4 ohm bridged 1% THD
SIGNAL TO NOISE RATIO (AT 4 OHM RATED POWER OUTPUT)	>80dB	>95dB	>95dB	>85dB	>85dB	>85dB
SEPARATION/CROSSTALK	-	>45dB	>45dB	>60dB	>60dB	>60dB
HP VARIABLE CROSSOVER	10 Hz-80Hz (subwoofer)	32 Hz-320Hz	32 Hz-320Hz	32 Hz-320Hz	32 Hz-320Hz	32 Hz-320Hz
LP VARIABLE CROSSOVER	32 Hz-320Hz (subwoofer)	32 Hz-320Hz	32 Hz-320Hz	32 Hz-320Hz	32 Hz-320Hz	32 Hz-320Hz
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



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