

**FUSION®**

MARINE ENTERTAINMENT



CATALOGUE 2012

THE NEXT GENERATION



**FUSION**<sup>®</sup>

MARINE ENTERTAINMENT

# INTRODUCTION



SIR PETER MAIRE

FUSION's mantra of being a 'True Marine', world leading Marine Entertainment brand stems from the history of its owner, Sir Peter Maire. A true visionary and entrepreneur, Peter was the founder of Navman, a Kiwi company which designed, developed and manufactured marine navigation products and grew to become a major global brand. Peter's passion, imagination and the engineering brilliance of his New Zealand based design team, have cemented FUSION as an industry leader in Marine Entertainment.

Studying Electronic Engineering whilst playing in a rock and roll band and hosting his own pirate radio station, Peter also worked at building guitar amplifiers and loudspeakers. It was this early passion for electronics, love of music and high quality acoustics, that has shaped FUSION's approach to marine entertainment.

Knighted by the Queen for his services to technology, Peter took ownership of FUSION in 2006 and sought to reinvent the Marine Entertainment industry. For too long, manufacturers had simply taken car stereos and made small modifications for their use in a marine setting. Peter saw there was a clear gap in the market for FUSION to exploit.

The FUSION True Marine seal of approval is trusted by customers around the globe and has led others to demand more from competitors. All True Marine products are designed and engineered in New Zealand, where the engineering team has over 150 years of combined Marine Electronics knowledge and experience. The products must be simple to use and, most importantly, water, salt and dust resistant. FUSION True Marine products are designed for outstanding long-term operation in the marine environment and this is why FUSION backs all their True Marine products with a three year limited consumer warranty.

In 2012 FUSION has taken Marine Entertainment a step further with the introduction of the 700 Series. This revolutionary, new entertainment system introduces NMEA 2000 connectivity and the ability to wirelessly operate your FUSION system via a downloadable iPhone, iPad, Android or PC 'App'. The marine environment is ever-evolving and with it FUSION has set its course to be at the cutting edge of the marine industry.

## FAMILY, FRIENDS, FUSION

it's what boating is all about!

A stylized, handwritten signature of Peter in white ink, appearing to be written on a dark surface.





# REAL REVIEWS FROM REAL CUSTOMERS

"By far the best marine stereo I have ever had, and I have had a lot of them. I like how the FUSION comes with all the different sleeves for the different iPods. Very ingenious thinking in this unit"

**ScarabChris, Thehulltruth.com**

"I've had this radio for about 8 months and it's been subject to sea conditions ranging from calm to rough seas and I've never had any problems. I like the intuitive design, very good sound quality, and an excellent dock for my iPod"

**Mrjustdis, westmarine.com**

"Went in Easy, and the menu is easy to understand without having to look through a manual. It interfaces with the iPod perfectly. Great product."

**Jay, westmarine.com**

"This thing ROCKS. It is so well thought out. It has everything I want in a marine stereo"

**A Jones, amazon.com**

"Finally no more CD's! Superb quality at an affordable price. Easy installation — FUSION MS-IP600 is the only Marine stereo I'd recommend to all my fellow boaters"

**Charlene, thegpsstore.com**

"I have two of these. They are amazing. Charges your iPod / iPhone while playing. Super easy to use menu for playlists / songs. Great power output, 70watt x4."

**Joe, amazon.com**

"These speakers have got to be the best for the price. The sound is great, the design is cool, and they were easy to install"

**Capt. Jahn, amazon.com**

"I'm a guy that dreads every new generation of phones / cameras / hardware and software. Using the FUSION MS-IP600 is extremely simple. Even while bouncing from swell to swell."

**Ed Thomas, westmarine.com**

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# FUSION TRUE MARINE

Recognised as the worldwide leader in marine entertainment and innovation, FUSION True Marine products combine cutting edge technology and high quality materials, with a clear focus on ease of use.

At FUSION, we believe that products should be designed to perform season after season even after exposure to some of the harshest marine conditions. With this longevity in mind, all True Marine products are designed and engineered from the ground up - specifically for use on the water. Environmental protection is at the heart of all our product

designs and only after each product has been subjected to (and passed) our rigorous environmental testing, are they awarded the True Marine stamp and a 3 Year Limited Consumer Warranty.

Our extensive testing gives our customers confidence in our products and has further cemented FUSION as industry leaders in marine entertainment. So, look for the True Marine stamp when purchasing your next marine entertainment product. And in the meantime, for your further peace of mind, here are the details of some of the tests that we conduct...

## VIBRATION TESTING:

Vibration testing ensures that FUSION products are fit for their life on the water; the ability to operate in irregular or stormy seas without physical damage or degradation is crucial. FUSION simulates these conditions in a controlled environment to ensure seamless operation of all FUSION True Marine stereos, not just for one season, but across the product's whole, extended lifespan.

## HIGH HUMIDITY AND SALT MIST TESTING:

In high humidity areas such as the Pacific, marine electronics face the real risk of corrosion and mechanical failure. Likewise, exposure to salt mist or moisture, for even a small period of time, will cause any non-marine specific stereo to fail. At FUSION we have special chambers for testing both of these conditions and can ensure all True Marine products withstand and perform to a high quality standard despite either extreme.

## TEMPERATURE TESTING:

The ability for a marine stereo to function in extreme temperatures is crucial, especially when the summer season is getting hotter every year. We test our stereos to temperature extremes you would never encounter in the real world.

FUSION True Marine Stereos must operate under extreme temperature conditions and withstand sudden changes in temperature without experiencing physical damage or degradation in performance.

## INGRESS PROTECTION (WATER RESISTANCE) TESTING:

All FUSION True Marine products, whether they be entertainment systems, speakers, subwoofers or wired remote control solutions, are IP (Ingress Protection) rated to at least an IPx5 level. This indicates a product's protection against moisture intrusion — an important factor for a product's durability and lifespan on the water.



# MS-FR6021

SUPERIOR SOUND



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# FUSION'S MULTI-ZONE CONTROL





FUSION's Multi-Cabin/Zone Control allows you to create a truly customised audio solution for your vessel.

Depending on the FUSION Marine Stereo model, you can enjoy music in two, three or four independent audio zones, each with their own volume setting. This enables music playing at different levels in each listening zone. For example, loud music in the saloon and quieter music on the flybridge.

There is the option of having all zones controlled from the Marine Stereo Unit, or for a truly customised audio solution, Wired Remote Controls can be installed in each zone to provide localised control. Navigate stereo sources, select tracks and control the volume level directly from the Wired Remote Control in each Zone.

NOTE: Line out audio Zones require additional amplification.



700 SERIES

# FEATURES



- ETHERNET CONNECTIVITY
- FUSION-LINK CAPABLE
- NMEA 2000 CERTIFIED
- 4 AUDIO ZONE CAPABLE
- IN-BUILT CLASS-D AMPLIFIER
- 280 WATT TOTAL OUTPUT
- COLOUR DAYLIGHT VIEWABLE LCD DISPLAY

# 700

SERIES







# FUSION 700 SERIES

The 700 Series True Marine Stereo range is the culmination of FUSION's engineering and design brilliance, resulting in a product with superior sound quality, controls and features never seen before.

We've listened to the needs of our customers and created a product that represents the perfect mix of innovation, functionality and ease of use. Available in two models — MS-IP700 (Integrated iPod or iPhone Dock) and MS-AV700 (DVD/CD System).

## KEY FEATURES

FUSION 700 Series  
video QR Link



### NMEA 2000

FUSION's 700 Series Marine Entertainment system is NMEA 2000 Certified. Hardwire your 700 Series Entertainment System directly into an existing NMEA 2000 network and communicate with partnered FUSION-Link marine electronics and FUSION's NMEA 2000 Certified wired remotes.

### ETHERNET CONNECTIVITY

Connect a wireless Ethernet Router to your 700 Series entertainment system for advanced wireless control of the on-board entertainment through the FUSION iPhone, iPad, Android or PC 'App' available for download.



### FUSION-Link

FUSION-Link enables skippers to simply control the 700 Series Entertainment System through a compatible Multi-Function Display (MFD). Creating an entertainment control centre for the entire vessel.

### 4 ZONE SYSTEM

With four individual audio zones available on the 700 Series, adjust the volume, balance and subwoofer independently in the cockpit, flybridge, saloon or cabin. For localised control of each audio zone install one or more MS-NRX200 wired remotes. Note: Zone 3 and 4 require additional amplification



WE ARE WIRED AND WIRELESS

**FUSION**  
**700**  
SERIES



NMEA 2000 Certified — Ethernet Connectivity  
FUSION-Link — 4 Zone/Cabin System

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# 700 IN MORE DETAIL

## CONTROL iPod MUSIC LIBRARY

FUSION's 700 Series replicates the iPod or iPhone Music interface, for simple navigation and control of audio. iPod or iPhone album art is displayed in colour on the 700 Series LCD screen and FUSION-Link mobile Apps. When listening to music from iPhone, an incoming call will automatically mute the music. For supported Apple models visit [www.fusionelectronics.com](http://www.fusionelectronics.com)



## SOURCES

### MS-AV700

AM / FM / DVD / CD / VHF / iPod / iPhone / USB / AUX / Sirius XM Ready (USA only, requires an additional Sirius XM tuner module SVX100).

Auxiliary In (AUX) connects MP3 players to the entertainment system. NOTE: The MS-AV700 has a USB socket at the rear for USB / iPod / iPhone audio playback. For water resistant protection of your iPod / iPhone or USB flash drive, connect the MS-DKIPUSB dock (sold separately).

### MS-IP700

AM / FM / USB / VHF / AUX / iPod / iPhone Sirius XM Ready (USA only, requires additional Sirius XM tuner module SVX100).

FUSION's World-First Internal iPod / iPhone dock, now with an internal USB dock.



## VHF RECEIVER

Monitor Marine VHF channels through the stereo speakers of your 700 Series Entertainment System for weather reports, coast guard information, chatter from other boats and more. Features include adjustable squelch to eliminate background noise between conversations, channel scan and user pre-sets, so you can instantly listen to you favourite channels (such as weather).

## VIDEO PLAYBACK

Watch video stored on your iPod or iPhone through the MS-IP700 Marine Entertainment System. Simply connect a compatible television or monitor to your system and enjoy your favourite movies or music videos. Watch DVD's through the MS-AV700 and for iPod or iPhone video playback, connect a MS-DKIPUSB dock to the system. The IR remote supplied with the MS-AV700 will control all DVD functions.



## USB PLAYBACK

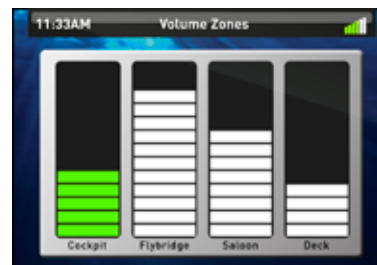
Listen to your favourite MP3 music stored on a USB flash drive. Simply insert the USB directly into the internal dock of the MS-IP700 or at the rear of the MS-AV700 Marine Entertainment System.

As FUSION increases functionality, you can update your 700 Series software via the USB connection of the stereo. Software updates will be available for download from [www.fusionelectronics.com](http://www.fusionelectronics.com)

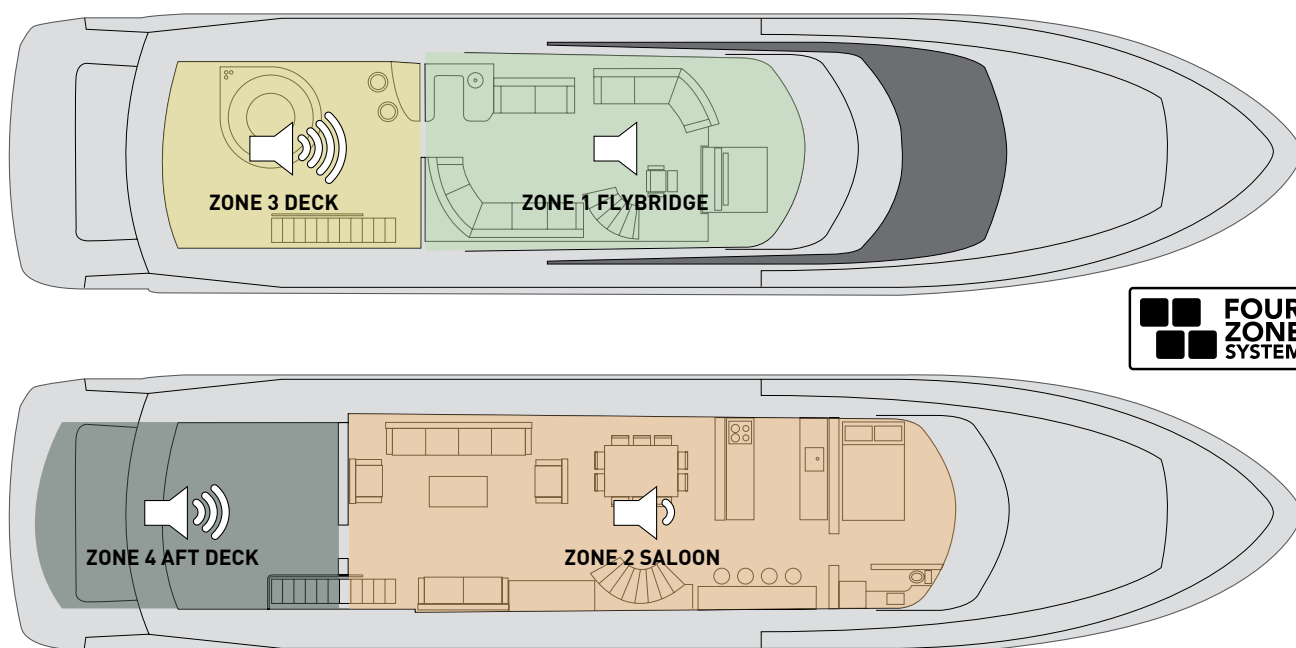
## ADVANCED MULTI-ZONE TECHNOLOGY – 4 SEPARATE ZONES

FUSION's 700 Series has independent control of balance, subwoofer and volume in four separate audio zones. To ensure ease of use, zones can be named: For example; Flybridge, Saloon, Deck and Cabin — perfect to instantly see which zone you are adjusting.

The 700 Series has two Class-D amplified zones, plus four zone line outs and four subwoofer line outs. Simply connect additional FUSION marine amplifiers for additional speakers and to expand the system to 3 or 4 Zones. The volume level can be independently adjusted in each audio zone from the entertainment system, or connect a wired remote in each zone for localised control.



700 series screen, zone volume control



## SMART WIRING SOLUTIONS

For vessels with an existing FUSION 600 Series Stereo and MS-WR600 Remote installation, the FUSION 700 Series and MS-NRX200 Wired Remote will connect to the existing FUSION cabling with the addition of a FUSION T-Connector supplied with the MS-NRX200 Wired Remote.

NOTE: The MS-WR600 Wired Remote is not compatible with the 700 Series Entertainment System

## FEATURES

- 280 Watt Total Output
- Hi-Fi Class-D Amplifier
- Daylight viewable 2.7" colour TFT LCD screen
- Rugged aluminium die-cast chassis
- Powerful ARM 9 350MHz processor
- 360° IPx5 water resistance
- Ethernet Connectivity
- NMEA 2000 Connectivity
- FUSION-Link capable

- 4 Zone Control — Zones are namable. Zone 1 and 2 have speaker output, or add amplifiers to Line Out Zones 1, 2, 3 and 4.
- MS-IP700: AM/FM/VHF/iPod/ iPhone/AUX/ USB/Sirius XM ready. Features internal waterproof docks for iPod, iPhone and USB.
- MS-AV700: AM/FM/VHF/DVD/ CD/AUX/ USB/Sirius XM ready. Can be expanded with the optional MS-DKIPUSB Dock to house and playback USB / iPod and iPhone audio.
- Customizable AUX screen – select from an image of a TV / DVD / Game or Portable media device
- Control of the iPod Music Library from

FUSION's innovative interface

- iPod / iPhone album art displayed in colour on the LCD display
- Amazingly Simple Controls - Most operations are controlled by the rotary encoder.
- Multi language user interface - English, French, Italian, German, Spanish and Dutch
- Key and LCD adjustable Backlighting for night time viewing.
- 12 or 24 hour clock with alarm function
- Sirius XM reception (USA-only) enabled through Sirius XM tuner Module SVX100.

THE POWER TO PERFORM



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# 700 SERIES ACCESSORIES

## FUSION 700 SERIES WIRED REMOTE – MS-NRX200

FUSION's MS-NRX200 wired remotes can be installed anywhere on a vessel, in all locations where you'd like to access the system. In boats with little space at the helm, the compact remote can be installed on the instrument panel or within easy reach of the skipper. In this case, the FUSION head unit can be installed inside the cabin or locker.

Installation is either wired using FUSION cables, or the remote can be connected into the vessel's existing NMEA 2000 network, so no cable is needed to the stereo unit. Most stereo functions and full Zone control is replicated by the control's user-interface, so it's as easy to use as the stereo unit.

## FUNCTIONS AS A NMEA 2000® REPEATER

The MS-NRX200 wired remote can communicate with other NMEA 2000 devices connected to the same NMEA 2000 network, to display information like depth, speed and wind direction. NOTE: Supported NMEA sentences are listed on the FUSION website [www.fusionelectronics.com](http://www.fusionelectronics.com)

IPx7 Waterproof to a depth of up to 1 metre for a period of no more than 30 minutes, perfect for installations on the deck or swim platform. The MS-NRX200 is True Marine, backed by a 3 Year Limited Consumer Warranty.



### MS- NRX200

- Compatible with both the MS-IP700 and MS-AV700
- NMEA 2000 Certified
- IPx7 waterproof
- FUSION-Link capable
- Large 2.6" Monochrome FSTN LCD screen
- Screen is high contrast, viewable in direct sunlight
- Key and LCD adjustable Backlighting.
- 32 Bit Micro Processor
- NMEA 2000 Repeater – displays basic information from compatible units connected to the NMEA 2000 network. Visit [www.fusionelectronics.com](http://www.fusionelectronics.com) for a full list of displayable NMEA 2000 sentences.
- Compact size for ease of installation



## PORTABLE MEDIA DEVICE DOCK MS-DKIPUSB

Connect the Portable Media Device Dock (MS-DKIPUSB) to the Marine DVD Entertainment System (MS-AV700) to provide integrated housing for your iPod / iPhone or USB flash drive. When bulkhead mounted the marine dock complies with IPx5 water resistance standards, protecting your device from the harsh marine environment. Featuring composite video output which enables iPod / iPhone video playback on a compatible television or monitor.



## ZONE AMPLIFIER MS-AM702

At 70 Watts x 2, this compact water resistant fully sealed Class-D Amplifier is brilliant for adding Multi-Zone audio throughout your vessel and is required for expanding the 700 Series system to 3 or 4 zones.

NOTE: All other FUSION marine amplifiers are compatible with the FUSION 700 Series Marine Entertainment System.

## MS- N2KSTART

Connect your 700 Series Marine Entertainment System to an existing NMEA 2000 network or start a new network with the FUSION NMEA 2000 Starter kit. All the cabling required to start a network is included.

### Contents include:

- 2 x FUSION to NMEA Drop Cables
- 1 x NMEA 6M Extension Cable
- 3 x NMEA T-Connectors
- 1 x Male NMEA Terminator Plug
- 1 x Female NMEA Terminator Plug
- 1 x 1M NMEA Power Cable

## MS- N2KCONN

Connect a FUSION MS-NRX200 or an additional 700 Series Marine Entertainment System to an existing NMEA 2000 network with the MS-N2KCONN connection kit.

### Contents include:

- 1 x FUSION to NMEA Drop Cable
- 1 x NMEA T-Connector



# FUSION-Link



FUSION-Link is a culmination of FUSION's 10 year experience designing and engineering high quality True Marine Entertainment products and a number of World-First innovations

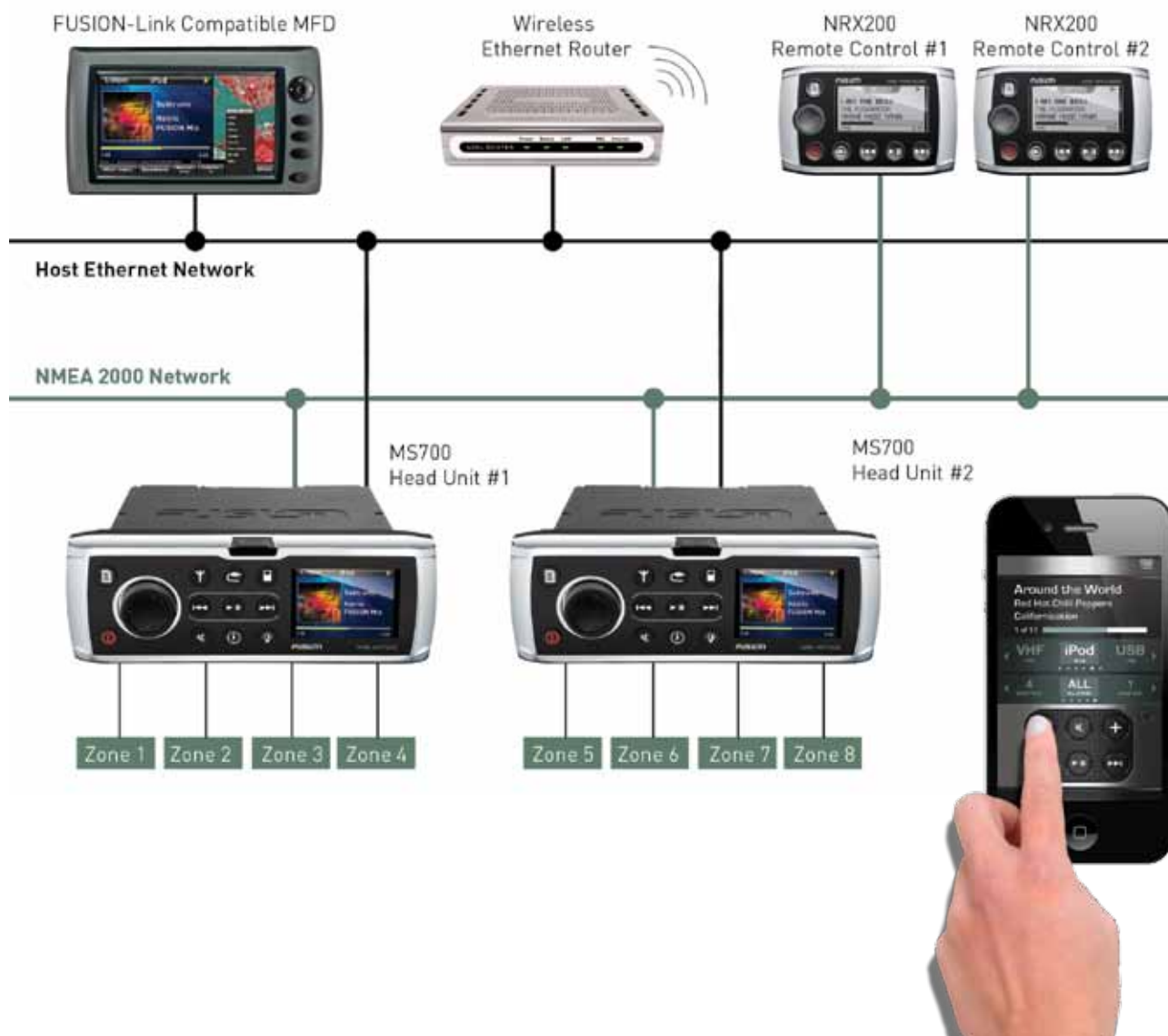
FUSION-Link allows compatible Multi-Function Displays (MFD) the ability to interface and achieve full control of FUSION's specialised marine entertainment equipment. By using a MFD as the entertainment control centre for the vessel you create a simplified and integrated entertainment experience.

Control one or more FUSION-Link capable marine entertainment systems from a single compatible MFD. FUSION-Link operates over existing industry standard networks including Ethernet, NMEA 2000 and WiFi. Link zones or manage the entire audio experience from the steering station on the boat.

The FUSION MS-IP700 and MS-AV700 are the first products in production that support FUSION-Link MFD control. All future FUSION Stereo-units will be available with FUSION-Link connectivity and as such will allow operation from trailer-boats up to Mega-Yachts. FUSION-Link is the future of integrated marine electronics!

Visit [www.fusionelectronics.com](http://www.fusionelectronics.com) for details on compatible FUSION-Link marine electronics

## FUSION-Link DIAGRAM



# FUSION ETHERNET CONNECTIVITY



## FUSION ETHERNET



Introducing advanced wireless control of the new 700 Series Marine Entertainment System.

Wireless control is only a swipe of a finger away anywhere on your vessel by harnessing the power of Ethernet. Simply connect your FUSION 700 Series Marine entertainment system to a wireless DHCP Ethernet Router and the entertainment system will auto configure itself to the network.

Download the FUSION-Link 'App'

for iPhone, iPad, Android or PC and navigate all music sources, control every independent zone and even control multiple stereo units connected to the same Ethernet Router.

A FUSION-Link partner marine MFD with Ethernet connectivity lets you take control of the entertainment experience from the helm, and when you're on the move the FUSION-Link mobile 'App' is always in your pocket.

Look for the FUSION-Link logo when

searching for your next chart plotter or fish finder and unlock the power of FUSION-Link and Ethernet control. For a list of FUSION-Link partnered marine electronics and for details on FUSION-Link mobile apps visit: [www.fusionelectronics.com](http://www.fusionelectronics.com)





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# FUSION NMEA 2000

NMEA 2000 is the marine standard for data communication between marine instruments. NMEA 2000 connects multiple instruments together (Sensors, Sonar, GPS, and Multi-Function Displays etc), regardless of brand for the purpose of sharing data with any or all other display instruments installed on the NMEA 2000 network. NOTE: FUSION's 700 Series Marine Entertainment system and MS-NRX200 Wired Remote are not compatible with all NMEA 2000 devices, please refer to the FUSION website for information on supported products:

[www.fusionelectronics.com](http://www.fusionelectronics.com)

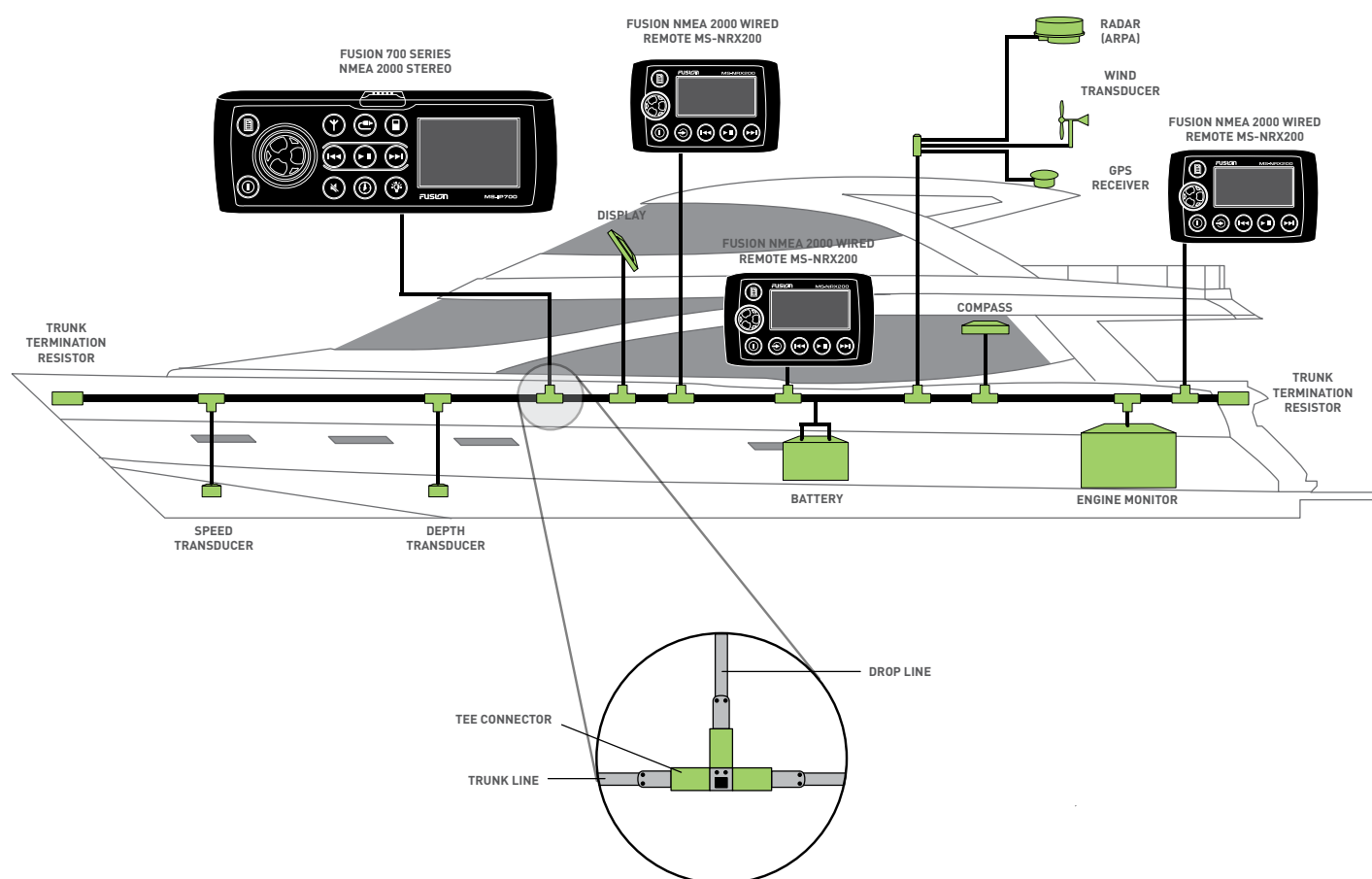
FUSION has introduced NMEA 2000 connectivity to the new 700 Series Marine Entertainment System. Adding NMEA 2000 connectivity is the logical progression of the FUSION True Marine standard of designing and engineering innovative solutions for the marine industry. By connecting the 700 Series Entertainment System directly onto an existing NMEA 2000 network the entertainment system communicates with other compatible NMEA 2000 devices on the same network.

A FUSION-Link compatible NMEA 2000 Multi-Function display (MFD) can control the full 700 Series entertainment experience from

the display itself, transforming the MFD into the entertainment centre of the vessel. Once the 700 Series Marine Entertainment System and the FUSION-Link partnered MFD are connected to the same NMEA 2000 network the FUSION-Link device can access the unique FUSION music interface. On vessels where more than one 700 Series Marine Entertainment System is connected to the NMEA 2000 network, a partnered FUSION-Link MFD will have full control over all the FUSION systems on the network.

For a list of partnered FUSION-Link compatible products visit: [www.fusionelectronics.com](http://www.fusionelectronics.com)

## NMEA DIAGRAM





A FRESH PERSPECTIVE



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MARINE ENTERTAINMENT



# FUSION NMEA 2000 CONNECTION ACCESSORIES

Connecting your FUSION 700 Series Marine Entertainment System and MS-NRX200 Wired Remote to a NMEA 2000 network requires additional cabling which is sold separately.

Two NMEA 2000 connection packs are available. MS-N2KSTART includes all the wiring required to build a new NMEA 2000 network.

The MS-N2KCONN connection pack is recommended when adding additional entertainment systems or MS-NRX200 Wired Remotes to an existing network.

Note: NMEA T-Connectors follow the NMEA 2000 standard and are compatible with other micro connectors, cables and NMEA 2000 compatible devices.

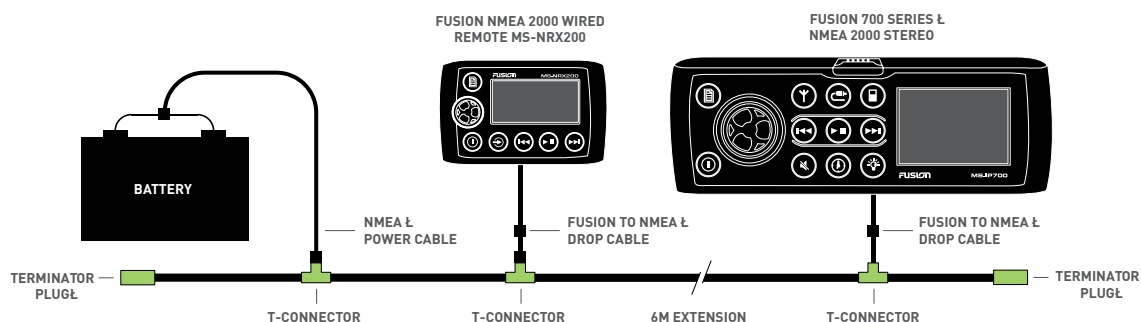
## MS-N2KSTART

- 2 x FUSION to NMEA Drop Cables
- 1 x NMEA 6M Extension Cable
- 3 x NMEA T-Connectors
- 1 x Male NMEA Terminator Plug
- 1 x Female NMEA Terminator Plug
- 1 x 1M NMEA Power Cable

## MS-N2KCONN

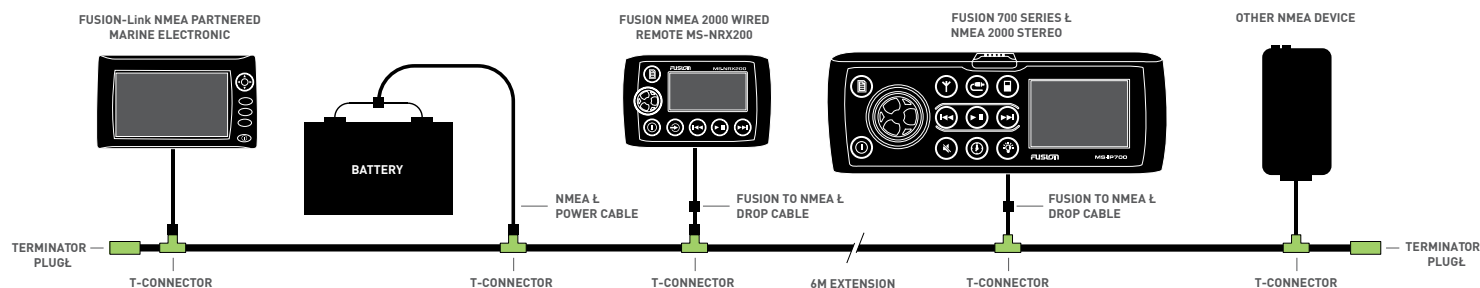
- 1 x FUSION to NMEA Drop Cable
- 1 x NMEA T-Connector

### EXAMPLE DIAGRAM 1



Example Diagram 1: Shows a FUSION NMEA 2000 network which fully utilizes the MS-N2KSTART connection pack.

### EXAMPLE DIAGRAM 2



Example Diagram 2: Shows a NMEA 2000 FUSION-Link compatible MFD connected to the network.. Full control of the 700 Series Marine entertainment experience is now granted to the FUSION-Link compatible MFD.

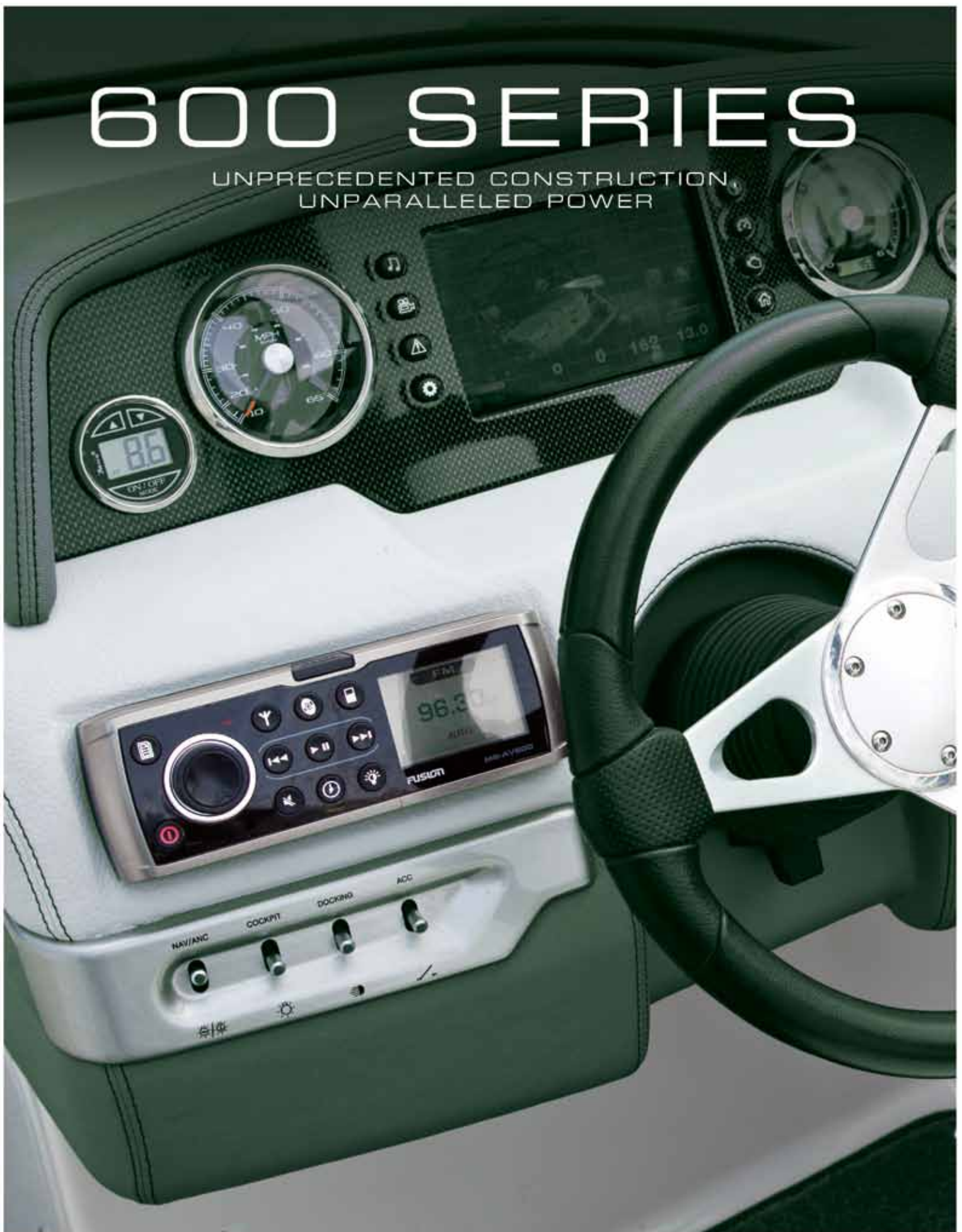
The MS-NRX200 remote will interface with other compatible NMEA 2000 electronics connected to the same network and display NMEA data on its LCD display.

NOTE: A FUSION NMEA 2000 Starter pack is only required for NMEA 2000 wiring solutions, you are still able to wire your 700 Series System and MS-NRX200 remotes together conventionally.

For full instructions on building a NMEA 2000 network on your vessel visit [www.fusionelectronics.com](http://www.fusionelectronics.com)

# 600 SERIES

UNPRECEDENTED CONSTRUCTION  
UNPARALLELED POWER



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# FUSION 600 SERIES

Modern styling and enhanced remote bus technology, the 600 series incorporates an intelligent user interface, FUSION's alpha search technology, world's first internal iPod dock with fully integrated iPod functionality.

With a dual mono subwoofer output and ingenious behind dash engineering, the 600 Series is contained in a 100% aluminium die-cast chassis. FUSION's 600 series is offered in three different models: iPod inside, DVD and CD.



## KEY FEATURES

**HIGH POWERED AMPLIFIER** — 70 Watts x 4 channels (Max). A massive 280 watt total output from a crisp, clear and powerful world-leading high efficiency Class-D amplifier — Perfect for vessels, where power consumption is crucial. The FUSION Class-D amplifier system will draw less power than a standard amplifier and produce little to no heat, making it the most efficient choice for your vessel.

**WATER RESISTANT** — 360° IPx5 Water Resistant, engineered with a superior die-cast aluminium chassis to protect against the harsh marine environment. This True Marine Product is backed by a 3 Year Limited Consumer Warranty.

**MULTI ZONE TECHNOLOGY** — FUSION's 600 Series Multi-Zone Technology offers full balance and individual control of the volume in three locations. For example, the skipper can independently adjust volume on the flybridge, while not affecting the other two zones of the vessel. Zone 3 requires additional amplification.

## FEATURES

- 280 Watt Total Output
- Hi-Fi Class-D Amplifier
- Daylight viewable 2.7" Dot Matrix LCD screen
- Rugged aluminium die-cast chassis
- 360° IPx5 water resistant
- 3 Audio Zone Control
- Amazingly Simple Controls — Most operations are controlled by the rotary encoder

- Control of the iPod music library from FUSION's innovative interface
- Multi language user interface – English, French, Italian, German, Spanish and Dutch
- 12 or 24 hour clock
- Sirius reception (USA only - enabled through optional Sirius module)
- **MS-IP600:** AM/FM/iPod/AUX/Sirius DC Ready. Features internal waterproof dock for iPod.

**MS-AV600:** AM/FM/DVD/CD/AUX Sirius DC Ready. Can be expanded with the optional MS-IPDOCKG2 to house and playback iPod audio.

**MS-CD600:** AM/FM/CD/AUX/Sirius DC Ready. Can be expanded with the optional MS-IPDOCKG2 to house and playback iPod audio.



## MS-IP600



The 600 Series features the second generation of FUSION's World-first internal iPod Dock technology, with advanced iPod integration and an impressive user interface.

This industry-leading product allows you to dock your iPod directly inside the Unit, ensuring your iPod stays protected from the harsh marine environment. FUSION's unique user-interface allows full control of all iPod features through a simple to navigate menu system, which replicates that of the iPod itself.

AM / FM / AUX / iPod / Sirius DC Ready (USA only)

For supported Apple models visit: [www.fusionelectronics.com](http://www.fusionelectronics.com)

## MS-CD600

Featuring Electronic Skip Protection and RDS. Experience your favourite CD, radio station or satellite radio station the way the artist intended.

Add the additional Marine Dock for iPod (MS-IPDOCKG2) and gain all the benefits of FUSION's unique iPod connectivity.

AM / FM / CD / AUX / iPod / Sirius DC Ready (USA only)



## MS-AV600

A revolutionary stereo capable of playing CD/MP3 and DVD. Listen to your favourite CD, radio station or satellite radio station, then at the end of a long day, relax and watch your favourite DVD.

Add the Marine External Dock for iPod (MS-IPDOCKG2) and gain all the benefits of FUSION's unique iPod connectivity

AM / FM / DVD / CD / AUX / iPod / Sirius DC Ready (USA only)



# FUSION 600 SERIES ACCESSORIES

## MS-WR600 WIRED REMOTE

The MS-WR600 wired remote duplicates most of the 600 Series stereo controls. Install up to three wired remotes for complete localised control of the audio experience. For example install the remote close to where you fish or at the helm for convenient control of the music. The remote is especially suited for helms where space is limited. Install the remote in easy reach, with the 600 stereo unit where there's space, like in the cabin.

The remote complies with IPx5 water resistance standards, making it perfect for installs on the Back Deck or Flybridge.

All mounting hardware is included and no external power is required to run the remote. Simply Plug & Play.



## MS-IPDOCKG2

Connect the Marine Dock for iPod to the MS-AV600 or MS-CD600 to provide full control and integration of an iPod through the stereo.

When bulkhead mounted the dock complies with IPx5 water resistant standards, protecting your device from the harsh marine environment. The dock can be wall mounted if required.



## ZONE AMPLIFIER MS-AM702

At 70 Watts x 2, the FUSION ultra-compact water-resistant amplifier is a fully sealed Class-D Amplifier, brilliant for adding another audio Zone in your vessel. For example, the MS-AM702 expands the 600 Series system from 2 to 3 zones.

At just 12cm (5 inches) long, this amplifier suits discreet installs and is purpose-built to suit your FUSION Marine Entertainment System. NOTE: If higher power is required, all other FUSION marine amplifiers are compatible with the FUSION 600 Series Marine Entertainment System.



# MS-RA50

THE WORLD'S SMALLEST STEREO UNIT



**FUSION**<sup>®</sup>

MARINE ENTERTAINMENT



## FUSION 200 SERIES



The MS-RA200 True Marine fully featured marine stereo delivers powerful, clear and dynamic sound with amazingly simple controls. Measuring only 157mm (6-3/16") wide, FUSION's MS-RA200 receives AM/FM and VHF, plus offers a choice of four music sources. Playback of iPod or iPhone music with the addition of the optional Media Device Dock or Apple sync cable. Alternatively, a USB flash drive can plug in the rear. Music can also be played from an MP3 player into the AUX in.

The MS-RA200 incorporates a simple to use user interface with music control and selection of songs by artist, song, playlist, album or genre (iPod source function).

Designed with an attractive black and metallic grey finish, the FUSION MS-RA200 is housed in a die-cast chassis that dissipates heat build-up. The bright LCD display is daylight viewable, even in direct sunlight and has adjustable key and backlighting for dull conditions.



## KEY FEATURES

200 Watt max total power, design based on the Arm-9, 350 MHz core processor. Compact size (157mm (W) x 68mm (H), (6-3/16" x 2-11/16"). 4 channel system, capable of powering 2 sets of speakers

**WATER RESISTANT** — The front panel of the unit is rated IPx5 when correctly bulkhead mounted. Constructed with an aluminium Die cast Chassis and conformal coated circuits. The MS-RA200 is a True Marine product is backed by a 3 Year Limited Consumer Warranty.

**MULTIZONE TECHNOLOGY** — The MS-RA200 offers full balance and volume control in two locations

on-board the vessel. For example, the skipper can adjust the volume on the bridge, while not affecting the other zone of the vessel.

**AUDIO SOURCE** — FM / AM / VHF / AUX / USB / iPod / iPhone / Sirius DC Ready (USA only - Sirius Tuner & Subscription required)

**iPod & iPhone VIDEO PLAYBACK** - Connect your MS-RA200 marine stereo to the optional MS-DKIPUSB media device dock and play your favourite iPod and iPhone videos. Simply connect a compatible television or monitor to the video out of the dock and the audio will play through the stereo speakers.

## ACCESSORIES

MS-WR600  
WIRED REMOTE

The MS-WR600 wired remote duplicates most of the 200 Series stereo controls. Install a single wired remotes for complete localized control of the audio experience. For example install the remote close to where you fish or at the helm for convenient control of the music.

The remote complies with IPx5 water resistance standards, making it perfect for installs on the Back Deck or Flybridge.

All mounting hardware is included and no external power is required to run the remote, simply Plug & Play.

## MS-DKIPUSB

Connect the Portable Media Device Dock to the MS-RA200 Marine Stereo and provide integrated housing for your iPod / iPhone or USB flash drive. When bulkhead mounted the marine dock complies with IPx5 water resistance standards, protecting your device from the harsh marine environment. Featuring composite video output which enables iPod / iPhone video playback on a compatible television or monitor.

NOTE: iPod and iPhone integration is also possible by using your standard Apple sync cable with the MS-RA200 marine stereo.

## MS-RA200 MP

DIN sized mounting plate for direct installation over an existing mounting hole.



MS-WR600



MS-DKIPUSB

## FUSION 50 SERIES



## KEY FEATURES

**MADE FOR iPod AND iPhone –**

The MS-RA50 offers complete control of the iPod music library through the fully integrated iPod user interface. Connect an iPod or iPhone via the optional MS-IP15L3 cable to the rear of the unit, or house the device in the optional water resistant dock MS-IPDOCKG2.

**EASY TO USE —** Nearly all operations are controlled through the large rotary encoder, ensuring FUSION's True Marine interface is simple and easy to use. Information and text is easily readable, even under direct sunlight on the large 2.3" LCD display.

Complies with IPx5 water resistant standards and equipped with a rugged electrically isolated aluminium die cast chassis.

Introducing the MS-RA50, FUSION's most compact and cost effective marine stereo ever! The MS-RA50 has a shallow mount depth of only 55mm (2 1/8"), perfect for small boats and personal watercraft. Not only is the MS-RA50 compact in size it also features iPod and iPhone music playback and FUSION's innovative easy to use music interface.



55mm 2 1/8" Depth

The MS-RA50 has a maximum output of 80 watts, this 2 channel stereo is capable of powering a set of speakers. The MS-RA50 also has a Left & Right AUX In Connection and a Left & Right Line out, allowing for amplifier connectivity.

The best entry level option for marine entertainment, backed by FUSION's True Marine 3 year limited consumer warranty.



## ACCESSORIES



## MS-HUGMS

Often in smaller or metal vessels it is not always possible to bulkhead mount your marine stereo.

The MS-HUGMS gimble mount allows the MS-RA50 to be installed easily, anywhere on your vessel.

## MS-RA200 MP

DIN sized mounting plate for direct installation over an existing mounting hole.



## MS-IPDOCKG2

Connect the Marine Dock for iPod to the MS-RA50, providing full control and integration of an iPod or iPhone.

When bulkhead mounted the dock complies with IPx5 waterproof standards, protecting your device from the harsh marine environment.



## MS-IP15L3

A 1.5 meter serial sync cable made for iPod and iPhone, allows for direct connection to the MS-RA50 Marine Stereo. Once connected the MS-RA50 will have full control of the iPod or iPhone music interface.



## FUSION MARINE SPEAKERS



GARRY LAMBERT

There are not many people with more of a vested interest in the way that speakers sound than those who are musicians at heart and that's just who FUSION has behind the acoustic and electrical side of their speaker design.

A keen guitarist, bass player and singer, Garry Lambert has been specialising in high end audio electronics for decades and has been on board with FUSION since 2006 as lead speaker engineer. Garry's passion over the last 30 years has been "to build speakers that are the most accurate reproducers of sound." Not only has he achieved that, but he's brought the technology across FUSION's marine speaker range, making them very popular products with customers around the globe.

All of FUSION's marine speakers are tested extensively, both in terms of how they sound and whether they will withstand unique marine conditions without deteriorating.

### TRUE MARINE PROTECTION

Designed to withstand the harsh marine environment and comply with International ASTM Standards for UV Stability (ASTM-D4329) and Salt/Fog Resistance (ASTM-B117)

### TRUE MARINE DESIGN

Complies with International IP65 Water Resistant Standards, certifying it will withstand water intrusion through True Marine Design featuring a fully-sealed cross-over, magnet and tweeter housing and water-resistant cone and surrounds.

### TRUE POWER SAVING

FUSION's power saving technology is directly related to efficiency gained from the speaker materials used. The high efficiency speaker design comes from the German 'CURV' cone technology used to produce the best sounding marine speakers in the world.

### TRUE SYSTEM FLEXIBILITY

Three different speaker sizes available, with three different grille options on the 6" and 7" speakers, provide a variety of audio solutions for any marine or outdoor installation

Rugged marine grilles provide strength and rigidity in high-traffic areas, or where objects are likely to be moving around or knocking into the speakers

The central core titanium tweeter stabilizes the speaker grille, while protecting the high pass crossover components from the marine elements.

### CURV CONE TECHNOLOGY

Usually found in Hi End home audio speakers, FUSION have incorporated the German 'CURV' Cone Technology for clear, powerful sound. 'CURV' technology incorporates a woven fibre composite which is heat pressed to form a lighter and stronger cone. This creates greater sound definition, higher output and greater resistance to the harsh marine environment.



### MS-FR6520

6.5" 2-Way, 200 watts max

FUSION's entry level speakers are anything but basic, featuring a high quality poly carbon cone and water resistant construction.

Thoroughly tested to ensure consistent and reliable performance.

Designed for optimal sound reproduction across the full audible spectrum.

- High Quality Poly Carbon Cone
- Water Resistant Construction 2-Way Design
- Max Power: 200 Watts.
- Complies with ASTM Standards for UV Stability (ASTM-D4329) and Salt/Fog Resistance (ASTM-B117)



## FUSION FULL RANGE SPEAKERS

Designed and engineered specifically for the marine environment, FUSION's Marine Speakers include design innovations and materials that not only produce great sound, but also ensure a sustained high performance level during prolonged exposure to the marine elements, it also means less cone flexure, and thus more "true to life" sound.



**MS-FR4021**

4" 2-Way, 120 watts max



**MS-FR6021**

6" 2-Way, 200 watts max

The 6" and 7" Marine speakers come with two grille options to choose from. Sports grille sold separately



**MS-FR7021**

7" 2-Way, 260 watts max

FUSION's most powerful marine speakers

## TRUE WATERPROOF DESIGN

Complies with IP65 Waterproof and Dust Standards and features a fully sealed cross-over, magnet and tweeter housing with waterproof cone and surrounds.

## TRUE MARINE PROTECTION

Designed to withstand the harsh marine environment and comply with International ASTM Standards for UV Stability (ASTM-D4329) and Salt/Fog Resistance (ASTM-B117)

**MS-FR6021GS**  
**MS-FR7021GS**



Personalise your MS-FR6021 or MS-FR7021 speakers with this stylish sports grille, designed to stand out and impress. Sold Separately.

# FUSION MARINE SUBWOOFERS

Increase the bass level of your music, or improve all-round sound quality by incorporating a marine subwoofer into your audio system. FUSION's True Marine 10" subwoofer is engineered for the marine environment and a perfect complement to your FUSION audio experience.

**MS-SW10**

10", 400 watts max

This FUSION subwoofer adds thunderous bass and realism to your music. We recommend you install a FUSION FM-402 Amplifier to drive this subwoofer.





MS-DA51600

## FUSION MARINE AMPLIFIERS

### FUSION CLASS-D AMPLIFIER

#### MS-DA51600

5 channel 1600 watts max

Introducing the MS-DA51600, 1600 watt, 5-channel marine amplifier. This Class-D, stainless steel amplifier is the most efficient and best looking amplifier to power the audio experience on your vessel.

Class-D amplifiers are almost 100% efficient, producing less heat and drawing less power at the same time producing higher output than your standard amplifier. The 1600 watt, 5 channel amplifier can power 4 speakers and 1 subwoofer with ease, designed to impress with a beautiful stainless steel finish.

Featuring conformal coated PCB circuitry to protect from moisture and salt. The entire amplifier is a 1 piece die cast heat sink, designed to improve thermal transfer and increase reliability for longer sustained power output.

### PRODUCT FEATURES

- Class-D Amplifier Technology — High output, greater efficiency.
- Conformal Coated PCB — Water resistant coating protects from salt & moisture.
- 1 Piece Die Cast Heat Sink — Improved thermal transfer — greatest reliability. Longer sustained power output and durability.
- 5 Way Circuitry Protection -Thermal / Reversed Power Polarity / DC Offset Protection / High + Low Voltage.
- Discrete Install Panel — Covers amp set-up controls & hides all cabling.
- FLFC Low Frequency Control — Accurate fine tuning of frequency response.



#### MS-AM702

140 watts max Zone Amplifier

At 70 Watts x 2, this compact water resistant fully sealed Class-D Amplifier is brilliant for adding Multi-Zone audio throughout your vessel.

Using a Class-D amplifier reduces heat dispersed and draws less power from the vessel.

Designed to be compact for discreet installs and purpose built to suit your FUSION Marine Entertainment System.



FAMILY, FRIENDS, FUSION



**FUSION**<sup>®</sup>

MARINE ENTERTAINMENT



## FUSION FM SERIES AMPLIFIERS

The FUSION FM series amplifiers come complete with FRAT power supplies, FIST cooling system and FUTRANZ heat sink transfer. Also all marine amplifiers use heat-tempered PCBs for maximum product life and performance. Gold plated connectology, ensures your signal flows from the head unit through to the speakers with as little injected distortion and noise as possible. This result is a very clean and very powerful reproduction of the input signal. All these features make it easier to achieve sonic perfection in almost any installation.

### FUTRANZ EFFICIENT HEAT SINK TRANSFER TECHNOLOGY

In developing extremely powerful amplifiers, it is essential to keep things cool so FUSION developed a heat sink that has a heat dissipation ability like never before. This was not an easy task but none the less it was achieved. Testing has shown a massive reduction in core heat has been achieved by using the FUTRANZ heat transferring technology. In simplified terms this means excellent thermal stability and maximum component reliability.

### VARIABLE BASS BOOST

Variable Bass Boost adds up to an extra 18db of gain at 45Hz.

### MARINE TOUGH

Built specifically to withstand the marine environment, the FM Series features conformal coated PCB boards and stainless steel end panels, for protection against corrosion.

Power, ground, input/output connections are all gold-plated as well, for the same reason.

### VARIABLE LOW- AND HIGH-PASS CROSSOVER

The FM Series features variable low- and high-pass crossovers, both with a 12dB/octave slope. The low-pass is variable from 40Hz-160Hz, and the high-pass from 40 Hz to 600 Hz.

### FUSION REGULATED AMPLIFIER TECHNOLOGY (F.R.A.T.)

This is FUSION's regulated amplifier design. FUSION amplifiers allow an enormous amount of output power at the lowest voltage and extreme output.

### FUSION INTERCOOLED SEMI-CONDUCTOR TECHNOLOGY (F.I.S.T.)

"FIST" is an innovative method of clamping down all internal power switching and audio output devices with an aluminium extrusion with extremely low temperature co-efficiency. By using F.I.S.T it creates the perfect cooling solution, rapidly removing core heat from all associated semi-conductors from both sides of the device at once resulting in extremely low distortion and excellent thermal stability.



### FM-402

2 channel 400 watts max

All FUSION head units have generous power built in, but some people enjoy even higher levels. Add a FUSION FM-402 marine amplifier and rock on well above the engine noise. The FM-402 will drive up to two subwoofers, an extra pair of speakers, or even four speakers (2 speakers in parallel each channel at 2 Ohms).

Built specifically to withstand the marine environment the FM-402 is the perfect complement to your FUSION system.

### FM-504

4 channel 500 watts max

Add more power to your marine speakers by connecting a FUSION Marine Amplifier to your audio system, or install with a subwoofer to increase the bass level of your music.

Marine Amplifiers feature anti-corrosion treated PCB's and stainless steel end panels for maximum corrosion protection, built specifically to withstand the marine environment.

With 4 channels the FM-504 will drive a pair of FUSION speakers plus a 10" Subwoofer, or up to four pairs of FUSION speakers (2 speakers in parallel each channel at 2 Ohms), to help spread the sound around your vessel.

### PRODUCT FEATURES

- Class-AB Amplifier Technology
- Conformal Coated PCB - Water resistant coating protects from salt & moisture.
- FUSION Intercooled Simi-conductor Technology (F.I.S.T)
- Variable Bass Boost
- FUSION Regulated Amplifier Technology (F.R.A.T)
- Subsonic Filter
- Variable Low and High Pass Cross Over

# MS-TV220LED

SUPERIOR SOUND AND PICTURE QUALITY



**FUSION**<sup>®</sup>

MARINE ENTERTAINMENT

# FUSION MARINE LED TELEVISIONS

The new range of FUSION High Definition LED Marine televisions designed for superior viewing.

Watch High Definition digital television or enjoy your favourite DVD's, CD's, MP3's and USB flash media on either a 19" or 22" High Definition FUSION Marine LED.

On the water it's important to use electronics that are designed to handle the harsh marine conditions, reducing the risk of corrosion and failure. All circuitry is conformal coated for protection against moisture, dust, chemicals, and temperature extremes. Using a standard television could result in damage or failure when operated in a marine setting.

Sensitive electronics are at increased risk of damage by voltage fluctuations or spikes, this is more so on your vessel where the on-board voltage can change constantly. Incorporated into all FUSION LED TV's is a voltage control board, designed to manage a fluctuating current of between 8 - 15V, reducing the risk of using your LED on the water.

There are many advantages to installing an LED television in your vessel. LED televisions are thinner and lighter than conventional plasma or LCD displays. LED technology is more energy efficient, meaning you can enjoy your favourite videos longer while you're out on the water.

FUSION LED TV's come with a 5 meter 12 volt DC power-cable and wall mount bracket. The piano black high gloss finish compliments all FUSION Marine Entertainment products and any boat interior. The DVB-T tuner receives digital broadcasts with Electronic Program Guide, allowing you to record and playback programs using the USB Flash Drive socket.\*

The built in DVD player allows you and your family the ability to watch your favourite movies and music videos. Use the stereo headphone jack for privacy or connect your TV with the RCA pre-outs into your FUSION head unit (700, 600, 200 or 50 Series) for an improved entertainment experience

\* High speed USB drive required. Recording time will vary depending on size of USB drive

NOTE: Not available in certain markets including the U.S.A



## MS-TV190LED

19" High Definition DVD LED  
Marine Television  
High Definition panel  
1368 x 768 Resolution

## PRODUCT FEATURES

- Built-In DVD/CD Player
- SPDIF Out
- Headphone Out
- Audio Out
- Piano black cabinet/chassis
- 110 - 240V AC Power Pack with 2m cable
- Conformal coated circuits for environmental protection
- 5m DC power cable
- 18K gold plated terminals
- In-built voltage control board
- Wall Mount bracket included

## MS-TV220LED

22" Full High Definition DVD LED  
Marine Television  
Full High Definition panel  
1920 x 1080 Resolution



# HIGH END MARINE ENTERTAINMENT



**FUSION**

[FUSIONELECTRONICS.COM](http://FUSIONELECTRONICS.COM)



DESIGN TECHNOLOGY PERFORMANCE





## FOR THOSE WHO ENJOY THE FINER THINGS IN LIFE

Introducing high-end audio for the marine-cabin environment, designed for exceptional sound in larger boats and represents the highest quality purpose-built marine audio on the market. The audio reproduction is unsurpassed and creates the perfect atmosphere for entertaining or relaxing below deck.

Designed by FUSION's head acoustic designer Garry Lambert; "the devil is in the details as far as speaker design goes, many people think a good speaker comes down to aesthetics, but it doesn't. Speaker design must be tailored to produce the best acoustic result for the end environment, whether that be a boat, a car, a living room, or a stadium — they're all different!" says Garry. Designed specifically for the lounge / cabin environment for unrivaled acoustics.

Consisting of two matching components: A pair of wide-range speaker and an active subwoofer, tuned to sound exceptional when combined together.

The MS-BX3020 is a compact wide-range speaker enclosure, with a sophisticated internal crossover network for crystal-clear sound. The two-way speaker drivers comprise a high quality 3-inch damped-cone bass to mid-range speaker, paired with a high quality silk dome tweeter, in an optimised acoustic chamber. Both internal speakers are conformal coated for marine and each are rated at 100 watts peak.

If you enjoy good bass, then FUSION's active subwoofer, MS-AB1060R is a must.

A High End design, the active bass reflex system combines advanced subwoofer technology into a small package with a passive radiator that seals the speaker from moisture. The speaker driver is a 6 -inch dual voicecoil down-firing woofer, acoustically coupled to a matching Passive Radiator giving the equivalent of a 10 or 12" subwoofer.

The Subwoofer system features a built-in four-channel Hi-Fi Class-D amplifier for top efficiency, delivering high power with low battery drain. Two amplifiers are dedicated to the wide-range speakers and the remaining two each drive a voice coil in the dual voicecoil woofer, for higher bass power and life-like detail. Total peak power is 350 watts.

### **MS-AB1060R** (Pictured left)

6" Dual voicecoil down firing woofer  
6" Passive radiator  
4 channel Class-D amplifier  
Peak Power: 350 watts  
Frequency Response: 30Hz-200Hz

### **MS-BX3020**

Features:  
High quality waterproof paper cone  
Fabric Dome Tweeter  
Peak Power: 100 watts  
Frequency response: 200-20kHz  
Sensitivity (1W/1M): 85db  
Impedance: 4 ohms

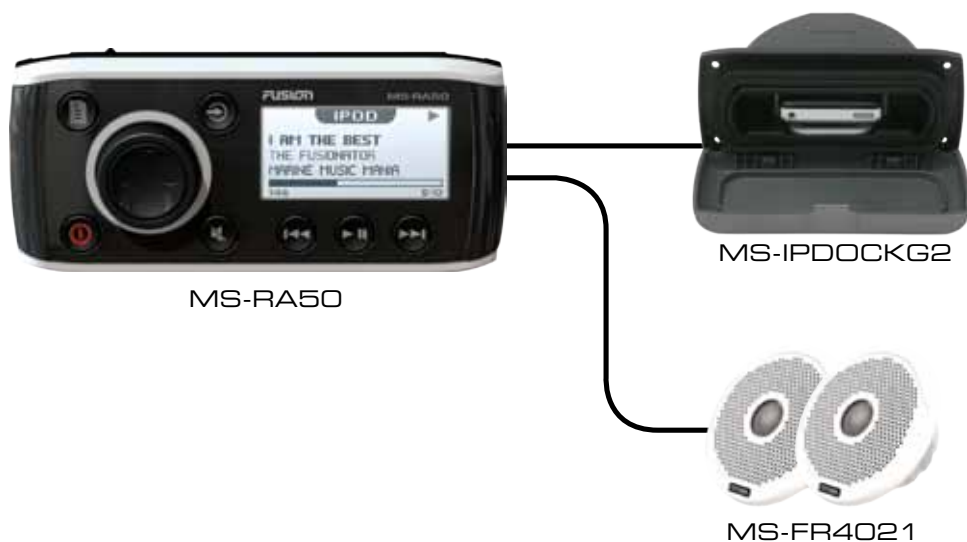


# RECOMMENDED SYSTEMS



## 50 SERIES

### SINGLE ZONE SYSTEM 1



### SINGLE ZONE SYSTEM 2



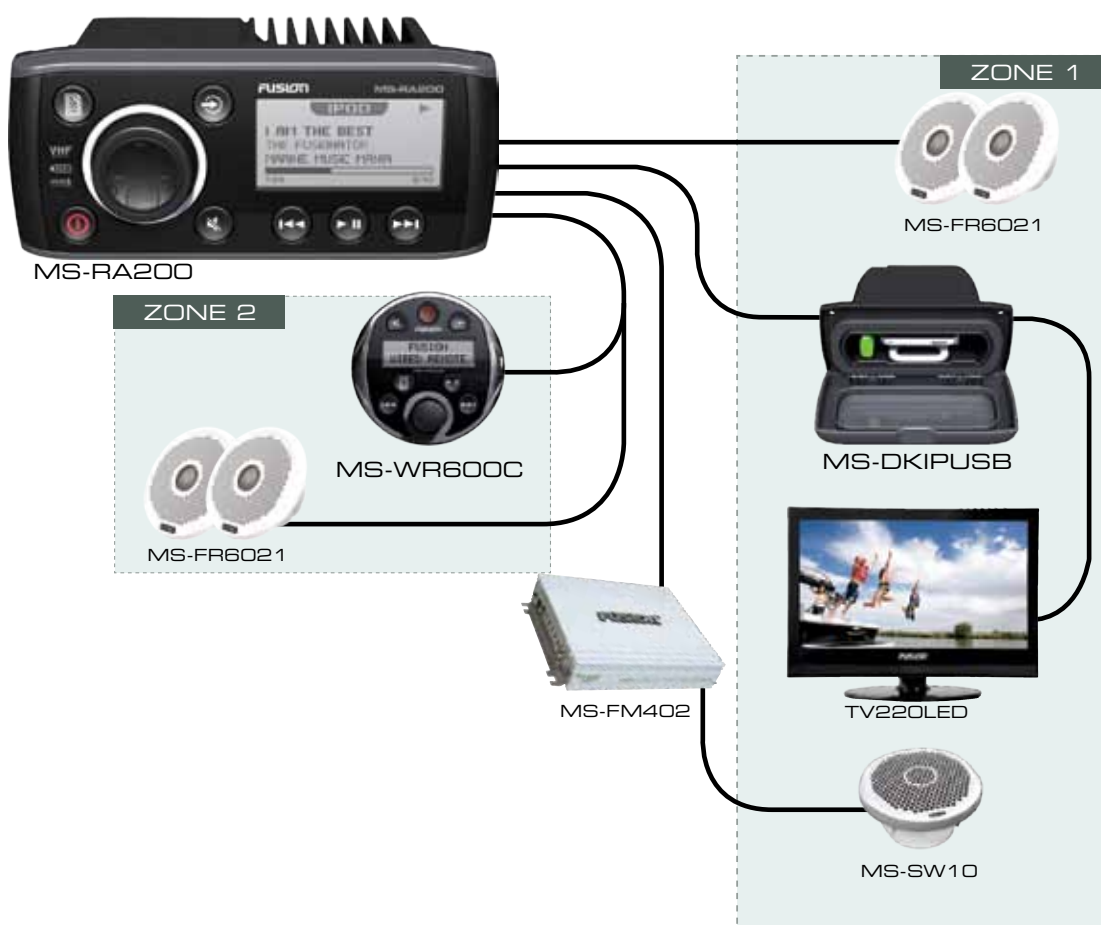


# 200 SERIES

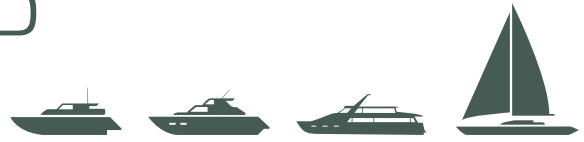
## TWO ZONE SYSTEM 1



## TWO ZONE SYSTEM 2



# RECOMMENDED SYSTEMS



## 600 SERIES

### TWO ZONE SYSTEM



### THREE ZONE SYSTEM

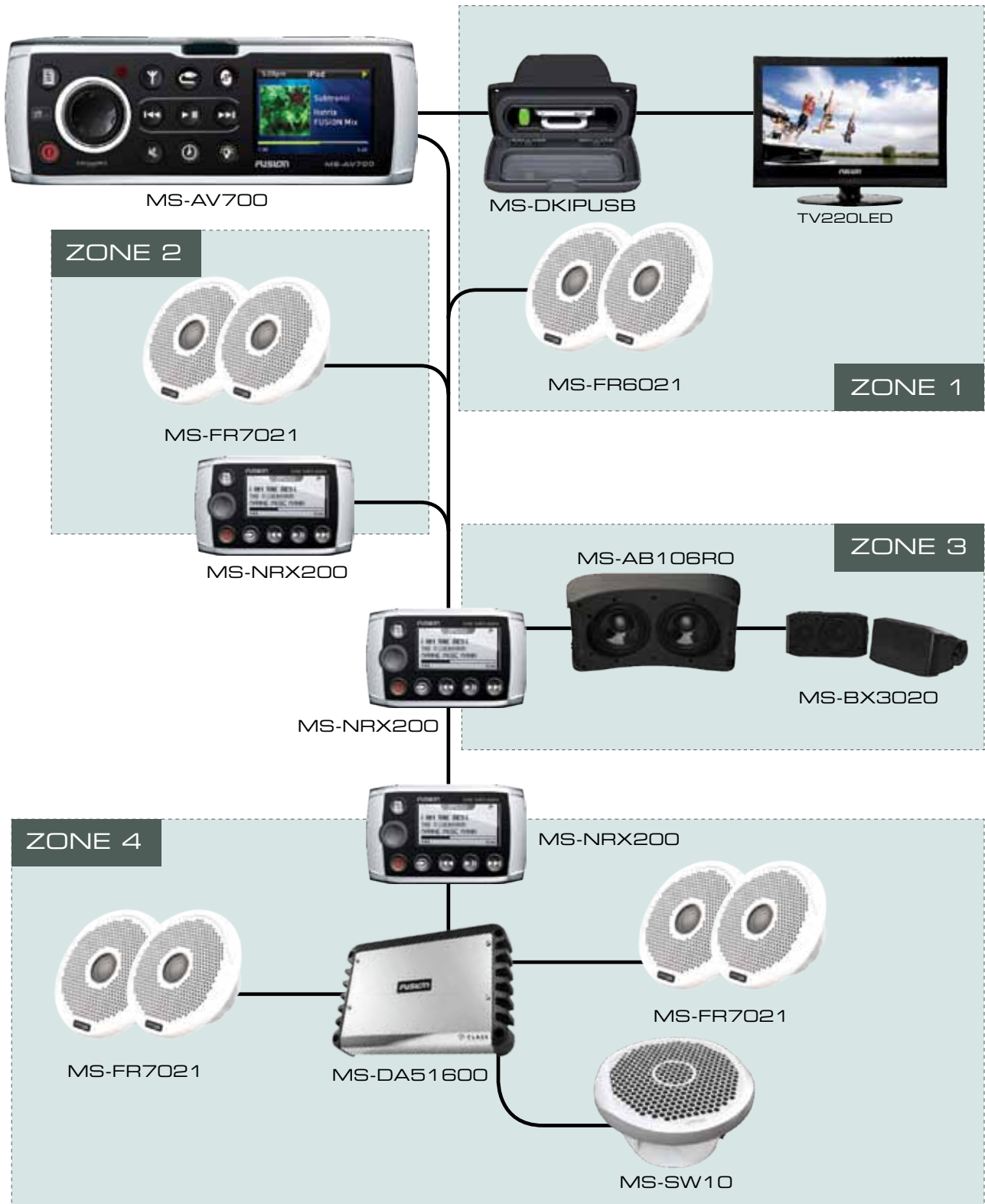






# 700 SERIES

## FOUR ZONE SYSTEM



# TECHNICAL SPECIFICATIONS

## STEREOS

### MS-IP700, MS-AV700

#### FM TUNER

Europe and Australasia	
Frequency range (MHz)	87.5 – 108
USA	
Frequency range (MHz)	87.5 – 107.9
Japan	
Frequency range (MHz)	76 – 90

#### AM TUNER

Europe and Australasia	
Frequency range (kHz)	522 – 1620
USA	
Frequency range (kHz)	530 – 1710
Japan	
Frequency range (kHz)	522 – 1620

#### VHF TUNING RANGE

All Regions	
Frequency range (MHz)	156 – 164

#### GENERAL

Operating voltage	+10.2–16 VDC
Fuse rating	15 Amp

#### CD PLAYER

Laser Power	Class I
-------------	---------

#### POWER OUTPUT

Maximum	70W x 4
26 Watts RMS at	4 Ohms per channel @10%THD+N
43 Watts RMS at	2 Ohms per channel @10%THD+N
Pre – Output Voltage	3 V/10 k ohms

### MS-IP600, MS-AV600, MS-CD600

#### FM TUNER

Europe and Australasia	
Frequency range (MHz)	87.5 – 108
USA	
Frequency range (MHz)	87.5 – 107.9

#### AM TUNER

Europe and Australasia	
Frequency range (kHz)	522 – 1620
USA	
Frequency range (kHz)	530 – 1710

#### GENERAL

Operating voltage	+10.2 – 16 VDC
Fuse rating	15 Amp

#### CD PLAYER

Laser Power	Class I
-------------	---------

#### POWER OUTPUT

Maximum	70W x 4
26 Watts RMS	at 4 Ohms per channel @10%THD+N
43 Watts RMS	at 2 Ohms per channel @10%THD+N
Pre – Output Voltage	3 V/10 k ohms

## MS-RA200

#### FM TUNER

Europe and Australasia	
Frequency range (MHz)	87.5 – 108
USA	
Frequency range (MHz)	87.5 – 107.9
Japan	
Frequency range (MHz)	76 – 90

#### AM TUNER

Europe and Australasia	
Frequency range (kHz)	522 – 1620
USA	
Frequency range (kHz)	530 – 1710
Japan	
Frequency range (kHz)	522 – 1620

#### VHF TUNING RANGE

All Regions	
Frequency range (MHz)	156 – 164

#### GENERAL

Operating voltage	+10.2 – 16 VDC
Fuse rating	15 Amp

#### POWER OUTPUT

Maximum	50W x 4
Pre-Output Voltage	3 V

## MS-RA50

#### FM TUNER

Europe and Australasia	
Frequency range (MHz)	87.5 – 108
USA	
Frequency range (MHz)	87.5 – 107.9
Japan	
Frequency range (MHz)	76 – 90

#### AM TUNER

Europe and Australasia	
Frequency range (kHz)	522 – 1620
USA	
Frequency range (kHz)	530 – 1710
Japan	
Frequency range (kHz)	522 – 1620

#### GENERAL

Operating voltage	+10.2 – 16 VDC
Fuse rating	7.5 Amp

#### POWER OUTPUT

Maximum	40W x 2
Pre-Output Voltage	3 V

## MS-WR600

#### REMOTE CONTROL

Mounting diameter	75mm (3")
Screen	
Alphanumeric LCD	
Connection	Mini DIN
Compatible with	MS-IP600, MS-AV600, MS-CD600, MS-RA200

## MS-NRX200

#### REMOTE CONTROL

Mounting diameter	50mm (2")
Screen	FSTN 128*64 LCD
Connection	Mini DIN
NMEA Connection	Requires
MS-N2KSTART or MS-N2KCON wiring kit	
Compatible with MS-IP700 and MS-AV700	

## FULL RANGE SPEAKERS

### MS-FR4021

Tweeter type	Titanium Dome
Max power (watts)	120
Efficiency (1W/1M)	87db
Frequency response	90 – 22kHz
Impedance	4 ohms
Min. mounting depth:	
Clearance:	60mm (2 3/8")
Mounting diameter:	95mm (3 7/8")

### MS-FR6021

Tweeter type	Titanium Dome
Max power (watts)	200
Efficiency (1W/1M)	90db
Frequency response	70 – 22 k H z
Impedance	4 ohms
Min. mounting depth:	
Clearance:	75mm (3")
Mounting diameter:	127mm (5")

### MS-FR7021

Tweeter type	Titanium Dome
Max power (watts)	260
Efficiency (1W/1M)	91db
Frequency response	60 – 22kHz
Impedance	4 ohms
Min. mounting depth:	
Clearance:	80mm (3 1/8")
Mounting diameter:	153mm (6 1/16")

### MS-FR6520

Tweeter type	Mylar
Max power (watts)	200
Efficiency (1W/1M)	90db
Frequency response	80 – 20kHz
Impedance	4 ohms
Min. mounting depth:	
Clearance:	70mm (2 3/4")
Mounting diameter:	141mm (5 9/16")

### MS-FR6021 GS

6" Sports Grille compatible with the MS-FR6021

### MS-FR7021 GS

7" Sports Grille compatible with the MS-FR7021

## HIGH END CUBE SPEAKERS

### MS-BX3020

Box Type	Sealed, ABS
Tweeter type	Fabric Dome
Woofer Type	Waterproof paper
Max power (watts)	100
Efficiency (1W/1M)	85db
Frequency response	200 – 20kHz
Impedance	4 ohms
Mounting	Adjustable Wall bracket supplied

## AMPLIFIERS

### MS-DA51600

50 (D) x 300 (L) x 210 (W)  
 (2 x 11-13/16 x 8-1/4")  
 Class-D Technology  
 Power output specification  
 80 Watts RMS x 4  
 + 250W RMS x 1 @ 4 Ohm 1%THD+N  
 130 Watts RMS x 4  
 + 330W RMS x 1 @ 2 Ohm 1% THD+N  
 250 Watts RMS x 2 @ 4 Ohm Bridged 1%  
 THD+N + 250W RMS x 1 @ 4 Ohm 1% THD+N

### FM-504

57.5 (D) x 330 (L) x 220(W)  
 (2-1/4 x 13 x 8-21/32")  
 12.6 Volt power output specification  
 50W RMS per channel  
 @ 4 Ohms and < 1%THD+N  
 75W RMS per channel  
 @ 2 Ohms and < 1%THD+N  
 150W RMS bridged channels  
 @ 4 Ohms and < 1%THD+N

14.4 Volt power output specification  
 65W RMS per channel  
 @ 4 Ohms and < 1%THD+N  
 95W RMS per channel  
 @ 2 Ohms and < 1%THD+N  
 200W RMS bridged channels  
 @ 4 Ohms and < 1%THD+N

### FM-402

57.5 (D) x 260 (L) x 220(W)  
 (2-1/4 x 10-1/4 x 8-21/32")  
 12.6 Volt power output specification  
 50W RMS per channel  
 @ 4 Ohms and < 1%THD+N  
 96W RMS per channel  
 @ 2 Ohms and < 1%THD+N  
 160W RMS bridged channels  
 @ 4 Ohms and < 1%THD+N

14.4 Volt power output specification  
 65W RMS per channel  
 @ 4 Ohms and < 1%THD+N  
 100W RMS per channel  
 @ 2 Ohms and < 1%THD+N  
 200W RMS bridged channels  
 @ 4 Ohms and < 1%THD+N

### MS-AM702

52 (D) x 122 (L) x 78mm (W)  
 (2-1/16 x 4-13/16 x 3-1/16")  
 Operating Voltage +10-16Volts DC /  
 Negative Ground  
 S/N Ratio @ 1kHz / 1W Reference -- 84dB  
 High Pass x-over - 60Hz - 600Hz  
 Maximum Operating Current - 8 Amps

Class-D Technology  
 2 ohm stable stereo  
 Waterproof chassis  
 Conformal coated PCB  
 70 Watts x 2 (max)  
 26 Watts RMS at 4 Ohms per channel  
 @10%THD+N  
 43 Watts RMS at 2 Ohms per channel  
 @10%THD+N

## 10" SUBWOOFER

### MS-SW10

Magnet Structure 60 Oz  
 Power Handling 400 Watts MAX  
 Voice Coil 2"  
 Impedance 4 Ohms  
 Free Space Resonance(Fs) 28Hz  
 Efficiency (1W/1M) 88dB  
 Frequency Response 30Hz-2.0kHz  
 Min. mounting depth:  
 clearance: 115mm (4 1/2")  
 Mounting diameter: 222mm (8 3/4")

## ACTIVE SUBWOOFER

### MS-AB1060R

Woofer Size 152.4mm (6")  
 Peak Power Output 350 Watts MAX  
 Frequency Response 30Hz - 300Hz  
 Enclosure 500 (L) x 250 (W) x 163 (H)  
 (19-11/16 x 9-27/32 x 6-27/64)

## MARINE LED TELEVISIONS

### MS-TV190LED

19" HD Widescreen LED with DVD.

### MS-TV220LED

22" Full HD Widescreen LED with DVD.

- Wide Screen 16:9 format
- 12V DC supply voltage
- Conformal coated for protection against the Marine Environment
- Piano black high gloss finish with counter top stand
- High Definition and Teletext
- DVB-T Tuner built in for Freeview digital broadcast (H.264)
- Electronic Program Guide (EPG Freeview)
- PVR functionality using EPG and connecting USB Flash Drive.

A/V Inputs:

- HDMI
- Component Video (YPbPr) x2
- PC: VGA plus stereo headphone jack
- S-Video
- AV: Composite Video plus Stereo Audio
- USB

A/V Outputs:

- SPDIF for digital stream to Home Cinema Systems
- Stereo headphone jack

## MARINE DOCK FOR iPod

### MS-IPDOCKG2

Cut-out hole 126mm x 39mm  
 Compatible with MS-CD600, MS-AV600, MS-RA50

## PORTABLE MEDIA DEVICE DOCK

### MS-DKIPUSB

Cut-out hole 126mm x 39mm  
 Compatible with MS-RA200, MS-AV700

## iPod COMPATIBILITY

For information on compatible iPod or iPhone models for a particular product visit [www.fusionelectronics.com](http://www.fusionelectronics.com)

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