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SAT-TV ANTENNAS

SATELLITE COMMUNICATIONS

Voice, fax, weather, high speed data, video, internet, C-Band and Ku-Band. The most reliable systems, more stable signal levels, fewer acquisition losses, and lower bit-error rates.

COBHAM

SEA TEL 2406

Code: MM SET 2406



3-Axis marine stabilized antenna system compatible with Ku-Band satellites.

- Antenna: 0.6 m/24 " ring focus
- Radome: .87m/34" D x 1m/39" H (Frequency Tuned)
- Weight: 113 Kg/ 250lbs
- Feed Assembly: Orthogonal Linear polarized
- Transmit Gain: 36 dB mid band
- Receive Gain: 34 dB mid band
- Ship's Motion: +/-25 degree roll, +/-15 degree pitch
- Pedestal Type: 3-axis: Level, Cross Level and Azimuth
- Rate (all axis): 90 degrees/second
- Acceleration (all axis): 60 degrees/second²

- Stabilization Accuracy: +/- 0.2 degrees
- Tangential Accelerations: 0.5 G in 6 seconds
- Azimuth Stabilization: Requires heading reference signal from ship's gyrocompass system.
- Operating Temperature Range: -20 to +55 Degrees C
- System G/T calculated includes radome and receive filter: 13.5 dB/k min
- Cross-Pole Isolation: >30 dB •
- Sidelobes: Meets FCC EIRP Spectral Density Mask @ -21.6 dBW/4KHz
- 1-year parts; 1-year labor

COBHAM

SEA TEL 3612

Code: MM SET 3612

3-Axis marine stabilized antenna system compatible with Ku-band satellites



- Reflector size: 0.91m (36in) D Ring focus
 - Radome: 1.27m /50in (D) x 1.49m /58.5in(H)
 - Tx Frequency: 13.75-14.5 GHz

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- Rx Frequency: 10.7-12.75 GHz
- Tx Gains (preliminary): 40.0dBi @ 14.25GHz
 - Rx Gains (preliminary): 38.0dBi @ 12.50GHz
- G/T (calculated): 17.0 dB/k, Clear Sky, 30° EL
- BUCs: 8W & 16W LBUC, 8W mini and others
- Pedestal Type: 3-axis
- Azimuth: Unlimited •
- Elevation Joint Angle: -15° to +115° •
- Weight: 132kg/292lb
- Polarization: Linear cross-pol or co-pol •
- (selectable from below deck) •
- Stability Accuracy: 0.1° RMS

ANTENNA

COBHAM

SEA TEL 4009

Code: MM SET 4009

- Antenna: 1m/40in D Ring Focus
- Radome: 50 Inch (1.42m/56in D x
- 1.51m/59.4in) Frequency Tuned • System Weight: 147.4kg/325lbs (Will vary by RF)
- Polarized Feed: Linear Cross-pol or Co-pol (selectable from below deck)
- Waveguide Rotary Joint: Minimizes Tx Path loss. (0.75dB typ.)
- BUC Options: 8W NJR, 8W & 16W Codan. (Additional options available)
- Transmit Gain: 40.6dB @ 14.25GHz
- Receive Gain: 39.8dB @ 12.5GHz
- System G/T: 18.1 dB/k (In Radome)
- Pedestal Type: 3-axis; Level, Cross Level and Azimuth
- Ship's Motion: +/-20 degrees Roll; +/-10 degrees pitch • Vibration and Shock: IEC 60721-4-6,
- Mechanical Class 6M3

- 3-Axis marine stabilized antenna system compatible with Ku-Band satellites · Transmission rate is compatible with many
 - different types of modems, networks and services.
 - IP access to the internet and corporate networks enabling fast downloads of large data files and e-mail.
 - Brake system on EL and CL axes to prevent damage due to loss of power.
 - Minimum threshold for 4009 environmental specifications meets or exceeds the requirements of Det Norske Veritas (DNV) Standard for Certificate No. 2.4
 - Efficient spectral use maximizing cost per bandwidth
 - Easy Stand-alone or network compatible
 - installation. • 24/7 customer care and technical support.
 - 1-year parts, 1-year labor

COBHAM

SEA TEL 6009 KU

Code: MM SET 6009

- 3-Axis marine stabilized antenna system compatible with Ku-Band satellites
- Antenna: 1.5m/58in D Ring Focus
- Radome: 76 Inch (2.01m/79.1in D x 2.01m/78.9in) Frequency Tuned
- System Weight: 233.6kg/515 lbs (Will vary by RF)
- Polarized Feed: Linear Cross-pol or Co-pol (selectable from below deck) Waveguide Rotary Joint: Minimizes Tx Path
- loss. (0.75dB typ.)
- BUC Options: 8W NJR, 8W & 16W Codan. (Additional options available)
- Transmit Gain: 45.1dB @ 14.25GHz
- Receive Gain: 44.0 dB @ 12.5GHz • System G/T: 21.9 dB/k (In Radome)
- Pedestal Type: 3-axis; Level, Cross Level and Azimuth
- Ship's Motion: +/-20 degrees Roll; +/-10 degrees pitch
- Vibration and Shock: IEC 60721-4-6, Mechanical Class 6M3

- Transmission rate is compatible with many different types of modems, networks and services.
- IP access to the internet and corporate networks enabling fast downloads of large data files and e-mail.
- Brake system on EL and CL axes to prevent damage due to loss of power.
- Minimum threshold for 6009 environmental specifications meets or exceeds the requirements of Det Norske Veritas (DNV) Standard for Certificate No. 2.4
- Efficient spectral use maximizing cost per bandwidth.
- · Easy Stand-alone or network compatible installation
- 24/7 customer care and technical support.
- 1-year parts, 1-year labor

• 8W BUC version only

control unit or PC

Windows M&C program

Remote Diagnostic Capable

Single or Quad Band LNB options

(Limited)

COBHAM

SEA TEL USAT 24

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Code: MM SET USAT24

- Marine stabilized antenna system compatible with Ku-Band satellites
- Antenna: 60 cm/24" Ring Focus feed
- Receive gain: 34.0dBi @ 10.95 GHz Transmit gain: 36.0dBi @ 14.0 GHz
- 13.5 dB / K calculated G/T @ 12 GHz (Clear
- sky, 20 degrees elevation)
- Radome: 70cm / 27.2" D X 68cm / 26.6" H (Frequency Tuned)
- Weight: 45Kg / 99.4 lbs max.
- Meets FCC EIRP Spectral Density Mask @ -21.6 dBW / 4KHz
- Ship's Motion: +/- 25° Roll and +/- 10° Pitch
- < 0.2° RMS mis-pointing @ +/- 20° / 10°

• Linear polarized feed with Auto Pol

Built-In GPS for fast satellite acquisition

• Azimuth Range of Motion: 680 Degrees

• Elevation Range of Motion: +2° to +75°

Built-in test capability, run from antenna

• Built-in test includes Strip Chart Recorder

MANSUETO MARINE

Marine stabilized antenna system compatible with Ku-Band satellites

- Antenna: 75 cm/30", Ring Focus feed with motorized AutoPol
- Transmit Gain: 39.0 dBi @ 14.25 GHz
 - Receive Gain: 37.0 dBi @ 11.85 GHz
 - G/T: 16 dB/K calculated at 12 GHz (clear sky @ 30 degrees elevation)
 - Meets FCC EIRP Spectral Density Mask @ 17.4 dBW/4 KHz output EIRPsd -21.6 dBW/4 KHz input EIRPsd

TV-AT-SEA

Sea Tel antennas will provide a strong signal for TV and HDTV channels on multiple receivers. The footprints are generous and service is compatible with most leading satellite providers.

COBHAM

COBHAM

Code: MM SET USAT30

SEA TEL USAT 30

SEA TEL 4004

Code: MM SET 4004

- Min. EIRP: 42 dBW

- The 04 Series antennas are compatible • Dish Diameter: 1.0 m; 40 in with the services provided by the industry's • Radome Diameter: 1.27 m; 50 in leading satellite companies like DirecTV[™], DISH Network[™], Bell TV[™], Hotbird, Sky, • Radome Height: 1.5 m; 59 in • Antenna Weight: 86.6 kg; 191 lbs Orbit, Sky Mexico and DirecTV Latin America Antenna Stabilization: 3-axis closed loop (DLA)™. • All Sea Tel DBS TV-at-Sea™ systems • Stabilization Motors: Brushless (quiet) DC Motors accommodate any number of satellite Built-In GPS Provides Automatic Satellite receivers. Many TV sets may be installed Acquisition onboard, each receiving its own • Ship's Motion: +/- 25° Roll and +/- 15° Pitch programming from its satellite receiver. • Roll & Pitch Response Rate: Unlimited • Unmatched stabilization accuracy allows the • Azimuth Range: 680 degrees system to detect the slightest motion that • Full Elevation Range: -15° to 115° may affect the antenna's connection and Polarization Control: Automatic where correct as needed. required • 2-year warranty on parts; 1-year labor. • Tracking System: Dishscan (no rotating feed) Ready for multiple satellite selection. • More than 200 digital guality TV channels • HD ready (except for use with DirecTV)

- and over 30 channels of CD quality music.

COBHAM

5004 UA

Code: MM SET 5004

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Typical data for 5004 UA

Motors

feed)

- Minimum EIRP: 41 dBW
- Dish Diameter: 1.27 m; 50 in
- Radome Diameter: 1.55 m; 61 in

• Azimuth Range: Unlimited

Elevation Range: -15° to +115°

Polarization Control: Automatic

• Radome Height: 1.67 m; 66 in • Antenna Weight: 95.3 kg; 210 lbs

• Antenna Stabilization: 3-axis closed loop

Stabilization Motors: Brushless (quiet) DC

• Ship's Motion: +/-25° Roll & +/-15° Pitch

• Roll & Pitch Response Rate: Unlimited

SAT-TV ANTENNA

- Pedestal Type: Closed Loop Servo Pointing Accuracy: 0.2° RMS @ 20° roll
- Elevation Range of Motion: +2° to +75°
- Azimuth Range of Motion: 680°
- Radome Dimensions (max): 99.1 cm/39"
- diameter x 101.7 cm/40" high Total Weight with Radome: 132 lbs/60 kgs

3-Axis marine stabilized antenna system ready for multiple satellite TV selection

3-Axis marine stabilized antenna system ready for multiple satellite TV selection

Typical data for DAC 2202 Controller

- Model: 2202
- Mounting: Rack Mount
- M & C Ports: 1 Serial, 3 TCP/IP, 1 multi-user web browser support
- UDP Upload port for updating software in the Comm Interface
- Reformatted GPS output: (GGA and GLL)
- Heading Input: NMEA 0183, SBS, Synchro or No-Gyro Mode
- Dimensions: 19" X 1.75"

Tracking System: Dishscan (no rotating

• Warranty: 2 years parts / 1 year labor

ANTENNA

COBHAM

SEA TEL 6004

Code: MM SET 6004

Sea Tel

3-Axis marine stabilized antenna system compatible with Ku-Band satellites

- Antenna Dish Diameter: 1.5 meters / 60"
- Elevation Range: -15° to +115° (allows full • Radome Diameter: 1.93 meters / 76" clearance for roll and pitch at minimum

elevations)

VAC, 50/60 Hz.

• Model: 2202

• Mounting: Rack Mount

web browser support

the Comm Interface

or No-Gyro Mode

Dimensions: 19" X 1.75"

receiver or your TV set.

antenna control unit.

• Simple Coax only installation

Power requirements do not include satellite

• Power to the antenna is supplied by the

2-year warranty on parts; 1-year labor

• HD ready (except for use with DirecTV)

Typical data for DAC 2202 Controller

• M & C Ports: 1 Serial, 3 TCP/IP, 1 multi-user

UDP Upload port for updating software in

Reformatted GPS output: (GGA and GLL)

Heading Input: NMEA 0183, SBS, Synchro

Ready for Multiple satellite selection

- Radome Height: 2.06 meters / 81" • Power Requirements: 70 watts at 110 or 220 Antenna Weight: 158.7 kg / 350 lbs.
- (including Radome)
- Antenna Gain: 44.2dB @12.5 GHz
- Minimum E.I.R.P.: 40.5
- European Antenna Polarization: Quad Linear
- U.S. Antenna Polarization: Dual Circular
- Type of Stabilization: 3-Axis Servo • Ship's Motion: +/- 25° Roll and +/- 15° Pitch
- Roll & Pitch Response Rate: Unlimited
- Azimuth Turn Rate: 12°/sec
- Azimuth Range: 540°

COBHAM

SEA TEL ST60

Code: MM SET ST60

3-Axis marine stabilized antenna system compatible with C-Band Circular TV services

Typical data for ST60 C Band

- Radome: 76" (1.9m) frequency tuned
- Pedestal Type: 3-Axis: Elevation, Azimuth, Cross level
- Specifications: MIL STD 167-1, IEC 60945, IFC 60950
- Response Rate: >100°/Sec
- Stabilization Accuracy: 0.1°
- Ship's Motion: ±25° roll, ±15 pitch°
- Antenna: 1.5m
- Polarized Feed: Circular
- Feed Assembly: C Band circular polarized dual port
- LHCP/RHCP (3.625–4.200 GHz)
- Min EIRP (Est): 33.0 dBW
- Elevation Range: -15 to +115 degrees
- Azimuth Range: Unlimited

COBHAM

SEA TEL ST94

Code: MM SET ST94

- 3-Axis marine stabilized antenna system compatible with C-Band and Ku-Band satellites
- Antenna Gain C-band: 39.5 dB at 4.2 GHz
- Antenna Gain Ku-band: 47.5 dB at 12.5 GHz • Minimum EIRP C-band: 30–31 dBW
- Minimum EIRP Ku-band: 35–36 dBW
- Dish Diameter: 2.4 m; 94 in
- Radome Diameter: 3.65 m; 144 in
- Antenna Stabilization: 3-axis servo
- Built-In GPS: Automatic Satellite Acquisition • Ship's Motion: +/- 15° Roll or +/-20° Roll and +/- 15° Pitch
- Full Elevation Range: -15° to +115°
- Radome Baseframe: Galvanized steel;
- Azimuth Range: Unlimited
- Reception: Single C-Band (Linear or Circular)/ Single Ku-Band (Linear Only), Dual C-Band Linear, Quad Ku-Band linear, Dual C-Band Linear/Quad Ku-Band linear (can be configured to receive 2 C-Band and 2

Ku-Band signals simultaneously or 4 Ku-Band signals simultaneously)

- Ku-band: The entire frequency range for Kuband satellite television is 10.7 to 12.75 GHz. Proper polarization is also an issue as both linear polarizations (horizontal & vertical) and circular polarizations (left & right) are used, and one configuration is not compatible with the other.
- C-band: The C-band frequency range is 3.7 to 4.2 GHz worldwide. Sea Tel TV-at-Sea™ systems are delivered with C-band LNB noise temperatures of 17 degrees K or better. The IF frequency in all cases is 950-1450 MHz
- Designed to meet Navy MIL-STD-167-1 vibration standard and MIL-STD-461 EMI & RFI standards (including 200V/M).

MANSUETO MARINE





BB100 - THE NEW BROADBAND ON THE MOVE

Code: MM RAD BB100



- Radiofrequency • Reflector: 100cm ADE carbon fiber
- Tx-Gain: 40.9dB @ 14.250 Ghz (r
- RF TX path loss between BUC an • BUC type: 4W Anatel type appro
- 8W NexGenWave (optional) 16W or 25W Codan (optional)
- Rx Gain: 39.9dB @ 12.5 Ghz (no radome)
- G/T: 18.0dB/K @ 20° elevation (with radome) • LNB low noise figure: <0.6dB with Swedish
- Microwave
- Double quad LNB compliant (DiSEqC protocol)
- Polarized feed: selectable from BBController software or OpenAMIP
- Linear Cross-pol
 - Co-pol
 - Radome loss: <1dB TX and RX Ku band optimized



BB100 ALLTECH - 3 ANTENNAS INTO ONE

Code: MM RAD BB100ALL

- Radiofrequency • Reflector: 100cm ADE carbon fib • Ku-Band: TX: 13.75-14.50 GHz RX: 11.0-12.5 GHz H/V co-polar and cross-pol
- Ka-Band: TX: 29.5-30.0 GHz RX: 19.7-20.2 GHz Linear and circular polarization
- VSAT+TV Mode of operation (Ku
- Double PLL quad-band LNB com
- (DiSEqC protocol) for VSAT Double DRO LNB for TV (DisEqC
- Wide/Narrow band and DVBS2



BB150 KU-BAND VSAT - TOP PERFORMANCE

Code: MM RAD BB150

Radiofrequency

- Reflector: 150cm ADE carbon fiber
- Tx-Gain: 43.7dB @ 14.250 Ghz (no radome)
- RF TX path loss between BUC and Dish: 0.5dB • BUC type: 4W Anatel type approved
- 8W New Japan Radio (optional) 16W or 25W Codan (optional)
- Rx Gain: 42dB @ 12.0 Ghz (no radome) • G/T: 22.0dB/K @ 25° elevation (with radome)
- LNB low noise figure:
- <0.6dB with Swedish Microwave • Double quad LNB compliant (DiSEqC protocol)
- Polarized feed: selectable from BBController software or OpenAMIP Linear Cross-pol Co-pol
- Radome loss: <1dB TX and RX Ku band optimized

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no rado	me)
d Dish:	1.1dB
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Mechanic

• Antenna power: 24Vcc – 10A or 110-230Vac (ext power supply) • Maximum angles: roll +/- 20° pitch +/-20° yaw +/- 20°/sec unlimited azimuth movement through rotary joint • Tracking accuracy: <0.3° with external gyro connected <0.5° without external gyro

• Antenna weight: 55Kg (with 10W BUC)

• Operating temperature: -10°C/+60°C

 Mechanics: 70% carbon fiber 30% aluminum

• Radome diameter: 125 cm

	Mechanic
ber	 Radome diameter: 125 cm
	 Antenna weight: 60Kg (with 10W BUC)
	 Operating temperature: -10°C/+60°C
	 Antenna power: 24Vcc – 10A or
	110-230Vac (ext power supply)
	 Ships motion: roll +/- 20°
	pitch +/- 20°
ı band only)	yaw +/- 20°/sec
npliant	unlimited azimuth movement through rotary joint
	 Tracking accuracy:
C compliant)	<0.3° with external gyro connected
Tuner	<0.5° without external gyro
	 Pedestal type: 2 axis level plus dynamic roll over skew
	 Mechanics: 90% carbon fiber - 10% aluminum

Mechanic

- Radome diameter: 175 cm
- Antenna weight: 95Kg (with 10W BUC)
- Operating temperature: -10°C/+60°C
- Antenna power: 24Vcc 15A or 110-230Vac (ext power supply)
- Maximum angles: roll +/-30° pitch -20° / +100° unlimited azimuth movement
- Rotary joint: Combined slip-ring for Ethernet and power, plus coaxial 2 way rotary joint for RF signals
- Tracking accuracy: <0.1° with external gyro connected <0.2° without external gyro
- Pedestal type: 4 axis: azimuth, elevation, cross level, polarization skew
- Mechanics: 70% carbon fiber 30% aluminum



AT-TV

SKYMAR 1000 PHASED ARRAY

Code: MM RAD SKYMAR



Radiofrequency

- EIRP: 43 dBW @ 0°-90° Elev
- G/T @ 12GHz: 13.5 dB/K @ 20° Elev
- Ku-Band: TX: 13.75-14.50 GHz
- RX: 10.95-12.50 GHz H/V co-polar & cross-pol or circular
- polarization left and right
- Internal Tracking Receiver: Wide/Narrow band and DVBS2 Tuner
- Double PLL quad-band LNB compliant (DiSEqC protocol)

Mechanic

- Radome dimension: DIA 95cm x H 30cm
- Antenna weight: 25Kg (with 16W BUC and modem)
- Antenna design: 90cm x 22cm slot phased array TX/RX radiation panel
- Operating temperature: -20°C/+60°C
- Antenna power: 12/48Vcc 10A max



Tracking performance:

- initial acquisition <60 sec reacquisition after 5 min blockage <2 sec
- tracking accuracy <0.3° without external gyro tracking speed capacity 300°/sec
- unlimited azimuth movement through ethernet rotary joint
- no RF degradation from 0° to 90° Elev range

We deliver ALL OVER EUROPE MORE THAN 1.000.000 articles on stock 24/7 Express DELIVERY to the Mediterranean WITH OUR OWN MEANS OF TRANSPORT



MANSUETO MARINE

VHF ANTENNAS



RA2025 - VHF - 3DB - 1 M (3') - FIBREGLASS - COAXIAL CABLE NOT INCLUDED



Suitable for any type of boat, the new RA2025 antenna from the "MULTIPURPOSE" series, ensures the best of Glomex technology:

- Easy installation under any condition, thanks to the included V9181 mount, and the accessories 1"x14 ADAPTOR and V9179 KIT (optional);
- · Quick connection thanks to standard ending SO239 for PL259 connectors;
- Tube of double-layer fibreglass, protected by 5 layers of polyurethane paint, resistant to UV-rays;
- Middle-wave internal element ensuring the best possible communication with a wide irradiation lobe on the horizontal plan.



RA104NYAUS - VHF - 3DB - 1M (3') - FIBERGLASS - 2 WAY INTEGRATED NYLON MOUNT - 4,50 M (15') COAXIAL CABLE

Code: MM GLO RA104NYAUS

RA104NYAUS is the VHF Glomex antenna with a 2 way nylon integrated mount and plug-n-play!

It's a solid antenna, thanks to a tube of double-layer fibreglass and protected by 5 layers of polyurethane paint it is resistant to UV-rays, and it's the perfect solution for the small mid sizes motor boat. The internal 1/2 wave antenna element assures the best communication possible, due to the resulting extended angle of transmission on the horizontal plane. For this reason RA104NYAUS, as well as having a premium look, is one of the most performing VHF antennas on the market.



RA104SSAUS - VHF - 3DB - 1M (3') - FIBERGLASS - 2 WAY INTEGRATED STAINLESS STEEL MOUNT - 4,50 M (15') **COAXIAL CABLE**

Code: MM GLO RA104SSAUS

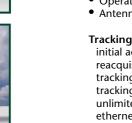
RA104SSAUS is the VHF Glomex antenna with a 2 way stainless steel integrated mount and plug-n-play!

It's a solid antenna, thanks to a tube of double-layer fibreglass and protected by 5 layers of polyurethane paint it is resistant to UV-rays, and it's the perfect solution for the small mid sizes motor boat. The internal 1/2 wave antenna element assures the best communication possible, due to the resulting extended angle of transmission on the horizontal plane. For this reason RA104SSAUS, as well as having a premium look, is one of the most performing VHF antennas on the market.

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Technical Specifications

- Frequency Range: 156/162 MHz
- Gain Average: 3 dB
- Impedance: 50 ohms
- Polarization: Vertical
- SWR: ≤ 1,3 at 156,8 MHz
- Max Input Power: 100 W
- DC Ground: Yes
- Antenna Length: 1m/3'
- Antenna Weight: 150g/5,29oz
- Termination: SO239 for PL259 male connector

Technical Specifications

- Frequency Range: 156/162 MHz
- Gain Average: 3 dB
- Impedance: 50 ohms
- Polarization: Vertical
- SWR: ≤ 1,3 at 156,8 MHz
- Max Input Power: 100 W
- DC Ground: Yes
- Antenna Length: 1m/3'
- Antenna Weight: 180g/6,35oz
- Termination: Cable

Technical Specifications

- Frequency Range: 156/162 MHz
- Gain Average: 3 dB
- Impedance: 50 ohms
- Polarization: Vertical
- SWR: ≤ 1,3 at 156,8 MHz Max Input Power: 100 W
- DC Ground: Yes
- Antenna Length: 1m/3'
- Antenna Weight: 180g/6,35oz
- Termination: Cable

GLOMEL

RA121 - VHF - 1DB - 210 MM (8") - FIBERGLASS - 9 M (30') COAXIAL CABLE

Code: MM GLO RA121



RA121 is a VHF antennas identical to the V9114 Vega omnidirectional TV antenna, allowing you to keep a balanced look of your boat.

> It's a compact VHF antenna (diameter 100 mm/4", height 210 mm/8",) conceived for any vessel, whether sailboat or motorboat, and it's provided with all necessary accessories for installation.

Technical Specifications

- Frequency Range: 156/162 MHz
- Gain Average: 1 dB
- Impedance: 50 ohms
- Polarization: Vertical
- SWR: ≤ 1,3 at 156,8 MHz
- Max Input Power: 50 W
- DC Ground: No
- Antenna Length: 210mm/8"
- Antenna Weight: 50g/8,81oz • Termination: SO239 for PL259 male connector

GLOMEL

RA124 - VHF - 1DB - 300 MM (12") - FIBERGLASS - 9 M (30') COAXIAL CABLE

Code: MM GLO RA124



Altair omnidirectional TV antenna, allowing you to keep a balanced look of your boat.

It's a compact VHF antenna (diameter 250 mm/10", height 300 mm/12",) designed for motorboats, and it's provided with all necessary accessories for installation.

Technical Specifications

- Frequency Range: 156/162 MHz
- Gain Average: 1 dB
- Impedance: 50 ohms
- Polarization: Vertical
- SWR: ≤ 1,3 at 156,8 MHz
- Max Input Power: 50 W
- DC Ground: No
- Antenna Length: 300mm/12"
- Antenna Weight: 430g/15,17oz
- Termination: SO239 for PL259 male connector

GLOMEL

RA106GRPSB18 - VHF - 3DB - 900 MM (35") - FIBERGLASS - 18 M (59') COAXIAL CABLE

Code: MM GLO RA106GRPSB18

The RA106 series antennas are reliable and solid, ideal for any type of boat, whether a sailboat or a motorboat and for tenders as well (version RIB).

RA106GRPSB18 is a VHF antenna designed for sailboats with a fibreglass rod which takes advantage of white polyurethane paint, assuring a total protection of the antennas' inside copper components. It's equipped with Glomex "RA106 solderless" special connector, waterproof and solderless, easing the installation.

Technical Specifications

- Frequency Range: 156/162 MHz
- Gain Average: 3 dB
- Impedance: 50 ohms
- Polarization: Vertical
- SWR: ≤ 1,3 at 156,8 MHz
- Max Input Power: 100 W
- DC Ground: Yes
- Antenna Length: 900mm/35"
- Antenna Weight: 180g/6,35oz
- Termination: RA106 solderless connector



RA106GRPSB25 - VHF - 3DB - 900 MM (35") - FIBERGLASS - 25 M (82') COAXIAL CABLE

Code: MM GLO RA106GRPSB25

The RA106 series antennas are reliable and solid, ideal for any type of boat, whether a sailboat or a motorboat and for tenders as well (version RIB).

RA106GRPSB25 is a VHF antenna designed for sailboats with a fibreglass rod which takes advantage of white polyurethane paint, assuring a total protection of the antennas' inside copper components. It's equipped with Glomex "RA106 solderless" special connector, waterproof and solderless, easing the installation.

Technical Specifications

- Frequency Range: 156/162 MHz
- Gain Average: 3 dB
- Impedance: 50 ohms
- Polarization: Vertical
- SWR: ≤ 1,3 at 156,8 MHz
- Max Input Power: 100 W
- DC Ground: Yes
- Antenna Length: 900mm/35"
- Antenna Weight: 180g/6,35oz
- Termination: RA106 solderless connector
 - MANSUETO MARINE





RA106SLSSB18 - VHF - 3DB - 900 MM (35") - STAINLESS STEEL - 18 M (59') COAXIAL CABLE

Code: MM GLO RA106SLSSB18

The RA106 series antennas are reliable and solid, ideal for any type of boat, whether a sailboat or a motorboat and for tenders as well (version RIB).

RA106SLSSB18 is a VHF antenna designed for sailboats with the tapered stainless steel rod which can absorb extreme forces without damage. It's equipped with Glomex "RA106 solderless" special connector, waterproof and solderless, easing the installation.



RA106SLSSB25 - VHF - 3DB - 900 MM (35") - STAINLESS STEEL - 25 M (82') COAXIAL CABLE

Code: MM GLO RA106SLSSB25

The RA106 series antennas are reliable an ideal for any type of boat, whether a sails motorboat and for tenders as well (version

RA106SLSSB25 is a VHF antenna desig sailboats with the tapered stainless steel ro can absorb extreme forces without dam equipped with Glomex "RA106 solderless connector, waterproof and solderless, ea installation.



RA109GRP - VHF - 3DB - 900 MM (35") - FIBERGLASS - COAXIAL CABLE NOT INCLUDED

Code: MM GLO RA109GRP

The RA109 series antennas are expressly d for installation on sailboats, and they stand their optimum performance.

RA109GRP is a VHF antenna compact in 900 mm/35", in fibreglass rod.



RA109SLS - VHF - 3DB - 900 MM (35") - STAINLESS STEEL - COAXIAL CABLE NOT INCLUDED

Code: MM GLO RA109SLS

The RA109 series antennas are expressly de for installation on sailboats, and they stand their optimum performance.

RA109SLS a VHF antenna compact in size 900 mm/35", in stainless steel rod.

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RA124 is a VHF antennas identical to the V9126

VHF **ANTENNA**

- Technical Specifications • Frequency Range: 156/162 MHz
- Gain Average: 3 dB
- Impedance: 50 ohms
- Polarization: Vertical
- SWR: ≤ 1,3 at 156,8 MHz
- Max Input Power: 100 W
- DC Ground: Yes
- Antenna Length: 900mm/35"
- Antenna Weight: 180g/6,35oz
- Termination: RA106 solderless connector

and solid, boat or a n RIB). gned for od which nage. It's s" special asing the	Technical Specifications Frequency Range: 156/162 MHz Gain Average: 3 dB Impedance: 50 ohms Polarization: Vertical SWR: ≤ 1,3 at 156,8 MHz Max Input Power: 100 W DC Ground: Yes Antenna Length: 900mm/35'' Antenna Weight: 180g/6,35oz Termination: RA106 solderless connector	
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designed	Technical Specifications
d out for	 Frequency Range: 156/162 MHz
	 Gain Average: 3 dB
	 Impedance: 50 ohms
size, just	 Polarization: Vertical
	 SWR: ≤ 1,3 at 156,8 MHz
	 Max Input Power: 100 W
	• DC Ground: Yes
	 Antenna Length: 900mm/35"
	• Antenna Weight: 180g/6,35oz
	 Termination: SO239 for PL259 male connector

lesigned	Technical Specifications
d out for	 Frequency Range: 156/162 MHz
	 Gain Average: 3 dB
	 Impedance: 50 ohms
ize, just	 Polarization: Vertical
	 SWR: ≤ 1,3 at 156,8 MHz
	 Max Input Power: 100 W
	 DC Ground: Yes
	 Antenna Length: 900mm/35"
	 Antenna Weight: 180g/6,35oz
	• Termination: SO239 for PL259 male connector

13

GLOMEL

RA2022/18AUS - VHF - 3DB - 1,50 M (5') - FIBREGLASS - CHROMED BUSHING - 18 M (60') COAXIAL CABLE

Code: MM GLO RA2022/18AUS

ANTENNA VHF

The MASTHEAD series antennas are specified designed for installation on the masthead.

RA2022/18AUS is a VHF fibreglass antenna for installation on the masthead. It differs from the RA2022/25AUS by the length of the doubleshielded coaxial cable available, respectively 18m (59')

Technical Specifications

- Frequency Range: 156/162 MHz
- Gain Average: 3 dB
- Impedance: 50 ohms
- Polarization · Vertical
- SWR: ≤ 1,3 at 156,8 MHz
- Max Input Power: 50 W
- DC Ground: Yes
- Antenna Length: 1,5m/5"
- Antenna Weight: 400g/14,10oz
- Termination: Cable

GLOMEL

RA2022/25AUS - VHF - 3DB - 1,50 M (5') - FIBREGLASS - CHROMED BUSHING - 25 M (82') COAXIAL CABLE

Code: MM GLO RA2022/25AUS



RA2022/25AUS is a VHF fibreglass antenna for installation on the masthead. It differs from the RA2022/18AUS by the length of the doubleshielded coaxial cable available, respectively 25 m (82'.)

The MASTHEAD series antennas are specified

designed for installation on the masthead.

Technical Specifications

- Frequency Range: 156/162 MHz
- Gain Average: 3 dB
- Impedance: 50 ohms
- Polarization: Vertical
- SWR: ≤ 1,3 at 156,8 MHz
- Max Input Power: 50 W
- DC Ground: Yes
- Antenna Length: 1,5m/5"
- Antenna Weight: 400g/14,10oz
- Termination: Cable

GLOMEL

RA106GRPPB - VHF - 3DB - 900 MM (35") - FIBERGLASS - COAXIAL CABLE NOT INCLUDED

Code: MM GLO RA106GRPPB

* The RA106 series antennas are reliable and solid, ideal for any type of boat, whether a sailboat or a motorboat and for tenders as well (version RIB).

RA106GRPPB is a VHF antenna designed for motorboats with a fibreglass rod which takes advantage of white polyurethane paint, assuring a total protection of the antennas' inside copper components. It's equipped with Glomex "RA106 solderless" special connector, waterproof and solderless, easing the installation.

Technical Specifications

- Frequency Range: 156/162 MHz
- Gain Average: 3 dB
- Impedance: 50 ohms
- Polarization: Vertical
- SWR: ≤ 1,3 at 156,8 MHz
- Max Input Power: 100 W
- DC Ground: Yes
- Antenna Length: 900mm/35"
- Antenna Weight: 180g/6,35oz
- Termination: RA106 solderless connector



RA106GRPPB6135 - VHF - 3DB - 900 MM (35") - FIBERGLASS - 4,5 M (15') COAXIAL CABLE

Code: MM GLO RA106GRPPB6135

* The RA106 series antennas are reliable and solid, ideal for any type of boat, whether a sailboat or a motorboat and for tenders as well (version RIB).

RA106GRPPB6135 is a VHF antenna designed for motorboats with fibreglass rod which takes advantage of white polyurethane paint, assuring a total protection of the antennas' inside copper components. It's equipped with Glomex "RA106 solderless" special connector, waterproof and solderless, easing the installation.

Technical Specifications

- Frequency Range: 156/162 MHz
- Gain Average: 3 dB
- Impedance: 50 ohms
- Polarization: Vertical
- SWR: ≤ 1,3 at 156,8 MHz
- Max Input Power: 100 W
- DC Ground: Yes
- Antenna Length: 900mm/35"
- Antenna Weight: 180g/6,35oz
- Termination: RA106 solderless connector

MANSUETO MARINE





RA106SLSPB - VHF - 3DB - 900 MM (35") - STAINLESS STEEL - COAXIAL CABLE NOT INCLUDED

Code: MM GLO RA106SLSPB

The RA106 series antennas are reliable and solid, ideal for any type of boat, whether a sailboat or a motorboat and for tenders as well (version RIB).

RA106SLSPB is a VHF antenna designed for motorboats, thanks to the tapered stainless steel rod which can absorb extreme forces without damage. It's equipped with Glomex "RA106 solderless" special connector, waterproof and solderless, easing the installation.



RA106SLSPB6135 - VHF - 3DB - 900 MM (35") - STAINLESS STEEL - 4,50 M (15') COAXIAL CABLE

Code: MM GLO RA106SLSPB6135

The RA106 series antennas are reliable an ideal for any type of boat, whether a sails motorboat and for tenders as well (version

RA106SLSPB6135 is a VHF antenna desig motorboats, thanks to the tapered stain rod which can absorb extreme forces damage. It's equipped with Glomex solderless" special connector, waterpre solderless, easing the installation.



RA112 - VHF - 3DB - 1,5M (5') - FIBREGLASS - NYLON FERRULE - 4,5M (15') COAXIAL CABLE

Code: MM GLO RA112

The CLASSIC series antennas are designed to fit the specific needs of all motorboats.

RA112 is the ideal choice for excellent performance and reduced size, just 1,5 m (5') height. It's a VHF antenna equipped with white nylon ferrule and polyurethane tube resistant to UV-rays.



RA112CR - VHF - 3DB - 1,5M (5') - FIBREGLASS - CHROMED BUSHING - 4,5M (15') COAXIAL CABLE

Code: MM GLO RA112CR

The CLASSIC series antennas are designed to fit the specific needs of all motorboats.

RA112CR is the ideal choice for excellent performance and reduced size, just 1,5 m (5') height. It's a VHF antenna equipped with chromed bushing and polyurethane tube resistant to UVrays.

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VHF ANTENNA

- Technical Specifications • Frequency Range: 156/162 MHz
- Gain Average: 3 dB
- Impedance: 50 ohms
- Polarization: Vertical
- SWR: ≤ 1,3 at 156,8 MHz
- Max Input Power: 100 W
- DC Ground: Yes
- Antenna Length: 900mm/35"
- Antenna Weight: 180g/6,35oz
- Termination: RA106 solderless connector

and solid, Iboat or a n RIB). igned for less steel s without "RA106 roof and	Technical Specifications • Frequency Range: 156/162 MHz • Gain Average: 3 dB • Impedance: 50 ohms • Polarization: Vertical • SWR: ≤ 1,3 at 156,8 MHz • Max Input Power: 100 W • DC Ground: Yes • Antenna Length: 900mm/35'' • Antenna Weight: 180g/6,35oz • Termination: RA106 solderless connector
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Technical Specifications

- Frequency Range: 156/162 MHz
- Gain Average: 3 dB
- Impedance: 50 ohms
- Polarization: Vertical
- SWR: ≤ 1,3 at 156,8 MHz
- Max Input Power: 100 W
- DC Ground: Yes
- Antenna Length: 1,5m/5'
- Antenna Weight: 450g/15,90oz
- Termination: Cable

- **Technical Specifications**
- Frequency Range: 156/162 MHz
- Gain Average: 3 dB
- Impedance: 50 ohms
- Polarization: Vertical
- SWR: ≤ 1,3 at 156,8 MHz Max Input Power: 100 W
- DC Ground: Yes
- Antenna Length: 1,5m/5'
- Antenna Weight: 580g/20,45oz
- Termination: Cable

GLOMEL

RA113 - VHF - 6DB - 2,7M (9') - FIBREGLASS - STAINLESS STEEL BUSHING - 6,0M (20') COAXIAL CABLE

Code: MM GLO RA113

The CLASSIC series antennas are designed to fit the specific needs of all motorboats.

RA113 is a high performing collinear VHF antenna 2.70 m (9') in height. It's equipped with a stainless steel bushing, made of brass inner components and polyurethane finish resistant to UV-rays, assuring best performance and long life.

Technical Specifications

- Frequency Range: 156/162 MHz
- Gain Average: 6 dB
- Impedance: 50 ohms
- Polarization: Vertical
- SWR: ≤ 1,3 at 156,8 MHz
- Max Input Power: 100 W
- DC Ground: Yes
- Antenna Length: 2,7m/9'
- Antenna Weight: 960g/33,90oz • Termination: Cable

GLOMEL

RA1206CR - VHF - 6DB - 2,4M (8') - FIBREGLASS - CHROMED BUSHING - 4,5M (15') COAXIAL CABLE

The CLASSIC series antennas are designed to fit the

RA1206CR is an economical and light VHF antenna,

containing solid brass components inside. It's

equipped with chromed bushing and double-layer

painted tube with polished polyurethane resistant

specific needs of all motorboats.

to UV-rays.

Code: MM GLO RA1206CR

Technical Specifications

- Frequency Range: 156/162 MHz
- Gain Average: 6 dB
- Impedance: 50 ohms
- Polarization: Vertical
- SWR: ≤ 1,3 at 156,8 MHz
- Max Input Power: 100 W
- DC Ground: Yes
- Antenna Length: 2,4m/8"
- Antenna Weight: 670g/23,63oz • Termination: Cable

GLOMEL

RA1206NY - VHF - 6DB - 2,4M (8') - FIBREGLASS - NYLON BUSHING - 4,5M (15') COAXIAL CABLE

Code: MM GLO RA1206NY

The CLASSIC series antennas are designed to fit the specific needs of all motorboats.

RA1206NY is an economical and light VHF antenna, containing solid brass components inside. It's equipped with nylon bushing and double-layer painted tube with polished polyurethane resistant to UV-rays.

Technical Specifications

- Frequency Range: 156/162 MHz
- Gain Average: 6 dB
- Impedance: 50 ohms
- Polarization: Vertical
- SWR: ≤ 1,3 at 156,8 MHz
- Max Input Power: 100 W
- DC Ground: Yes
- Antenna Length: 2,4m/8'
- Antenna Weight: 456g/16,08oz
- Termination: Cable



RA106SLSRIB - VHF - 3DB - 900 MM (35") - STAINLESS STEEL - 4,50 M (15') COAXIAL CABLE

Code: MM GLO RA106SLSRIB

The RA106 series antennas are reliable and solid. ideal for any type of boat, whether a sailboat or a motorboat and for tenders as well (version RIB).

RA106SLSRIB is a VHF antenna designed for inlatables RIB, thanks to the tapered stainless steel rod which can absorb extreme forces without damage. It's equipped with Glomex "RA106 solderless" special connector, waterproof and solderless, easing the installation.

Technical Specifications

- Frequency Range: 156/162 MHz
- Gain Average: 3 dB
- Impedance: 50 ohms
- Polarization: Vertical
- SWR: ≤ 1,3 at 156,8 MHz
- Max Input Power: 100 W
- DC Ground: Yes
- Antenna Length: 900mm/35"
- Antenna Weight: 180g/6,35oz
- Termination: RA106 solderless connector

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RA1225 - VHF - 6DB - 2,4M (8') - FIBREGLASS - STAINLESS STEEL BUSHING - 6,0M (20') COAXIAL CABLE

Code: MM GLO RA1225

The CLASSIC series antennas are designed to fit the specific Technical Specifications needs of all motorboats.

RA1225 is a collinear antenna 2.40 m (8') in height, designed to assure excellent performance in terms of quality, operation and design. Compared to the traditional antennas, whilst similar in shape, this antenna deeply differentiates itself due to the inside finish and the rod features. Made of spiral copper wires inserted in brass tubes, this antenna assures a long-range communication and best radio performance. The tube is made of fibreglass with polished polyurethane finish and resistant to UV-rays and is reinforced by a double-layer (1,2 mm/0,05'.) RA1225 is a vertical polarization antenna minimizing the effect of reflection on flat surfaces.



RA500 - VHF - 9DB - 6,40 M (21') - FIBREGLASS - CHROMED BUSHING - 6,0 M (20') COAXIAL CABLE

Code: MM GLO RA500

The CLASSIC series antennas are designed to fit the specific needs of all motorboats.

RA500 is a standard of excellence for professional communications. It is a collinear antenna with 2 wave phases that consists of 2 vertically aligned sections with 9 dB of gain and 6.4 m (21') in height. It's equipped with chromed bushing and polyurethane finish resistant to UV-rays.



RA111 - VHF - 1DB - 140 MM (5") - RUBBER - - 18 M (59') COAXIAL CABLE

Code: MM GLO RA111

The REGATTA & EMERGENCY series antennas are characterized by compactness and functionality.

RA111 is a small VHF antenna (140mm/5",) protected by a tapered synthetic rubber tube that can be installed, on the sailboats or motorboats. It is equipped with 18m (59') of coaxial cable and with a PL259 male connector.



www.mansuetomarine.it

- Frequency Range: 156/162 MHz
- Gain Average: 6 dB
- Impedance: 50 ohms
- Polarization: Vertical
- SWR: ≤ 1,3 at 156,8 MHz
- Max Input Power: 100 W
- DC Ground: Yes
- Antenna Length: 2,4m/8'
- Antenna Weight: 742g/26,17oz
- Termination: Cable

Technical Specifications

- Frequency Range: 156/162 MHz
- Gain Average: 9 dB
- Impedance: 50 ohms
- Polarization: Vertical
- SWR: ≤ 1,3 at 156,8 MHz
- Max Input Power: 100 W
- DC Ground: Yes
- Antenna Length: 6,4m/21' two pieces (4+2,4m/13+8')
- Antenna Weight: 2,95kg/6,50lb • Termination: Cable

Technical Specifications

- Frequency Range: 156/162 MHz
- Gain Average: 1 dB
- Impedance: 50 ohms
- Polarization: Vertical
- SWR: ≤ 1,3 at 156,8 MHz
- Max Input Power: 50 W
- DC Ground: No
- Antenna Length: 140mm/5"
- Antenna Weight: 220g/7,76oz
- Termination: SO239 for PL259 male connector

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13

GPS & RADARS

FURUNO

7" WIDE COLOR LCD GPS/WAAS CHART PLOTTER GP-1870

Code: MM FUR GP1870

- Features
- Bright 900 cd/m² LCD gives excellent readability even in direct sunlight
- The LCD and AR glass are bonded together to ensure no fogging issues
- Clear visibility even when wearing polarized sunglasses
- Internal GPS antenna for simple and easy installation
- Supports detailed C-MAP 4D charts by Jeppesen (Locally supplied with an SD card)
- RotoKey™ revolving menu and familiar point-and-click operation
 Internal memory: Waypoint/Track 30,000 points, Route 1,000 routes

Specifications

- Display Type: Color TFT LCD
- Screen Size: 7"
- Screen Resolution: 800 x 480 pixels (WVGA)
- Brightness: 900 cd/m² (typical)
 Receiving Type: GPS: 50 channels WAAS: 1 channel
 Receiving Frequency: L1 (1575.42 MHz)
- Memory Capacity: 30,000 points for ship's track and wayponts 1,000 planned routes (Max. 50 points per route)
- 5,000 quickpoints Display Modes: Course plot, Nav Data, GPS status
- Waterproo-ng: IP56 • Power Supply: 12-24 VDC
- Consumption Current: 1.05 0.53 A (When 600 W transducer used)

FURUNO

7" WIDE COLOR LCD GPS/WAAS CHART PLOTTER (WITH FISH FINDER) GP-1870F

Code: MM FUR GP1870F

Features

- Bright 900 cd/m² LCD gives excellent readability even in direct sunlight
 - The LCD and AR glass are bonded together to ensure no fogging issues
 - Clear visibility even when wearing polarized sunglasses
 - Internal GPS antenna for simple and easy installation
 - Supports detailed C-MAP 4D charts by Jeppesen (Locally supplied with an SD card)
 - RotoKey[™] revolving menu and familiar point-and-click operation
 - Internal memory: Waypoint/Track 30,000 points, Route 1,000 routes

 - Equipped with FURUNO's latest digital fish finder technology
 Bottom Discrimination Function* * Thru-hull transom transducer mount required. - ACCU-FISH[™] — A unique fish size analyzer
 - Post-processing Gain Control applied to all echoes displayed on the screen
 - White Line function Discriminates fish lying near the bottom

Specifications

- Display Type: Color TFT LCD
- Screen Size: 7"
- Screen Resolution: 800 x 480 pixels (WVGA)
- Brightness: 900 cd/m² (typical)
- Receiving Type: GPS: 50 channels WAAS: 1 channel
- Receiving Frequency: L1 (1575.42 MHz)
- Memory Capacity: 30,000 points for ship's track and wayponts 1,000 planned routes (Max. 50 points per route) 5,000 quickpoints
- Display Modes: Course plot, Nav Data, Instruments, Engine monitor, Anemometer, Fuel level gauge, GPS status, Fish Finder
- Transmit Frequency: 50/200 kHz
 Transmission: 600 W or 1 kW *Matching box MB-1100
- required for certain transducers
- Display Range: 5 1,200 m, shift: 0 500 m
- Extension Mode: ACCU-FISH*, Auto (Fishing/Cruising/ Manual), A-Scope, Marker Zoom, Bottom Zoom, Bottom Lock, Bottom Discrimination
- Picture Advance: 7 steps: 2/1, 1/1, 1/2, 1/4, 1/8, 1/16, stop
- Waterproo-ng: IP56
- Power Supply: 12-24 VDC
- Consumption Current: 1.05 0.53 A (When 600 W transducer used)

MANSUETO MARINE





4' OR 6' OPEN RADAR SENSOR DRS12A

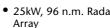
FURUNO

FURUNO

Code: MM FUR DRS12A

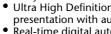
4' OR 6' OPEN RADAR SENSOR DRS25A

Code: MM FUR DRS25A











FURUNO

10.4" LCD RADAR MODEL 1935

Code: MM FUR 1935





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• 12kW, 72 n.m. Radar Antenna for NavNet 3D with choice of stylish 4' or 6' Open

• Ultra High Definition (UHD™) Digital Radar offers crystal clear, noise-free target presentation with automatic real-time digital signal processing Real-time digital auto Gain/Sea/Rain controls to deliver noise-free radar presentation • Radar antenna rotation speed (24/36/48 rpm) is automatically shifted to the appropriate pulse length

• 25kW, 96 n.m. Radar Antenna for NavNet 3D with choice of stylish 4' or 6' Open

• Ultra High Definition (UHD[™]) Digital Radar offers crystal clear, noise-free target Politia ingri Deminiciar (GriD -) Digitar nadar ories crystar cicar, noise nee target presentation with automatic real-time digital signal processing
Real-time digital auto Gain/Sea/Rain controls to deliver noise-free radar presentation Radar antenna rotation speed (24/36/48 rpm) is automatically shifted to the appropriate pulse length

23.1" MARINE RADAR FAR-2827

Code: MM FUR FAR2827



- Range: 0.125, 0.25, 0.5, 0.75, 1.5, 3, 6, 12, 24, 48, 96 nm
- Output Power: 25 kW
- Antenna Length: 4', 6.5', 8' open
 Display: 23.1" color LCD



RADAR

と

GPS

GARMIN

GPSMAP® 751

Code: MM GRM 0100110302



Simply amazing. The premier Garmin GPSMAP 751 chartplotter has 60 percent more processing power than its previous generation for faster zooming and panning. It includes a 7" WVGA touchscreen with pinch-to-zoom display. Chartplotter has a built-in high-sensitivity 10 Hz Garmin GPS/GLONASS receiver that updates position and heading 10 times per second, displaying fluid vessel movement and dramatically improves your ability to accurately mark and quickly navigate to 5,000 waypoints. Also includes full wireless connectivity, media integration, autopilot compatibility, radar support, NMEA® 2000 connectivity and comes preloaded with UK and Ireland1 Bluechart q2 charting.

Physical & Performance

- Unit dimensions, WxHxD: 9.0" x 5.6" x 2.4" (22.9 x 14.2 x 6.1 cm)
- Display size, WxH: 6.0" x 3.6", 7.0" diagonal (15.2 x 9.1 cm, 17.8 cm diagonal)
- Display resolution, WxH: 800 x 480 pixels
- Display type: multi-touch touchscreen WVGA display
- Weight: 2.1 lb (0.9 kg)

GARMIN

GPSMAP® 4012

Code: MM GRM 0100059200



The power of networking meets the brilliance of great design in this large-screen chartplotter, which serves as your all-in-one "nerve centre" for the Garmin Marine Network. The GPSMAP 4012 has crisp, video-quality resolution on a large 30.7 cm (12 in) XGA display as well as a worldwide, satellite-enhanced basemap. By connecting to the Garmin Marine Network, you can add sonar and radar. For even more enhanced features, you can add the optional BlueChart® g2 Vision® card.

Physical & Performance

- Unit dimensions, WxHxD: 14.8" x 9.5" x 4.6" (37.6 x 24.1 x 11.7 cm)
- Display size, WxH: 9.7" x 7.3", 12.1" diagonal (24.6 x 18.4 cm, 30.7 cm diagonal)
- Display resolution, WxH: 1024 x 768 pixels
- Display type: XGA display
- Weight: 10.0 lb (4.5 kg)

GARMIN

echoMAP™ 70s

306

Code: MM GRM 0100110400



echoMAP 70s offers amazing features in a combination chartplotter/sounder with a 7" touchscreen with pinch-to-zoom and HD-ID[™] sonar. Its 10 Hz Garmin GPS updates your position and heading 10 times per second, displaying fluid vessel movement and dramatically improving your ability to accurately mark and navigate to 5,000 waypoints. Also includes sonar recording capability that coordinates the timing of the sonar return with your boat's position and saves digital information on the map. Features wireless connectivity. Comes preloaded with UK and Ireland1 Bluechart g2 marine charts.

Physical & Performance

- Unit dimensions, WxHxD: 9.0" x 5.6" x 2.4" (22.9 x 14.2 x 6.1 cm)
- Display size, WxH: 6.0" x 3.6", 7.0" diagonal (15.2 x 9.1 cm, 17.8 cm diagonal)
- Display resolution, WxH: 800 x 480 pixels
- Display type: multi-touch touchscreen WVGA
- Weight: 2.0 lb (0.9 kg)







Download our App and get your guote within 24 hours!

MANSUETO MARINE



GARMIN

echoMAP™ 50s

Code: MM GRM 0100109500



echoMAP 50s is a combination chartplotter/sounder with a 5" display and HD-ID™ sonar. Built-in high-sensitivity 10 Hz Garmin GPS/GLONASS receiver updates position and heading 10 times per second to display fluid vessel movement and dramatically improve your ability to accurately mark and navigate to 5,000 waypoints. Also includes sonar recording that coordinates the timing of the sonar return with your boat's position and saves digital information on the map. Features wireless connectivity and comes preloaded with UK and Ireland¹ Bluechart g2 charting. It makes fishing almost too easy. Almost.

Physical & Performance

- Unit dimensions, WxHxD: 5.9" x 6.1" x 2.4" (15.0 x 15.5 x 6.1 cm)
- Display resolution, WxH: 480 x 640 pixels
- Display type: VGA display • Weight: 1.6 lb (0.7 kg)

GARMIN

echo™ 550c

Code: MM GRM 0100095501

echo 550c turns fish into sitting ducks. That's because of its powerful sonar with 500 watts (RMS) power with Garmin's exclusive HD-ID target tracking technology. A video-quality 640x480-pixel VGA screen provides you an amazing level of detail on fish returns, structure and bottom contours. With echo 550c, you can see well beyond the sides of your boat thanks to a dual-beam transducer with up to 120 degree viewing angle. Plus the powerful sonar lets you see as deep as 1,900 ft.

Features:

- Garmin HD-ID[™] technology
- 500 watts (RMS) transmit power
 Depths to 1,900 ft
- Beam width to 120 degrees
- Five-inch video-quality colour display

Physical & Performance

- Display resolution, WxH: 480 x 640 pixels • Display type: VGA, 256 colour
- Weight: 17.6 oz (499 g)
- GARMIN

echo™ 300c

Code: MM GRM 0100095201

echo 300c is designed to make catching fish as simple as possible. The system's 3.5-inch sunlightreadable display and exclusive Garmin HD-ID™ target tracking technology let you see through the water like never before. Plus, a 300-watt (RMS) sounder offers a viewing angle of up to 120 degrees and bottom detail to 1,500 ft. For an uninterrupted view of the sonar image, echo 300c also boasts Garmin Smooth Scaling™ technology, which means you won't lose sight of the sonar history as the unit changes depth ranges.

Features:

- HD-ID technology
- 300 watts (RMS) transmit power
- Depths to 1,500 ft Beam width to 120 degrees
- 3.5 in sunlight-readable colour display

Physical & Performance

- Unit dimensions, WxHxD: 4.1" x 5.8" x 2.8" (10.4 x 14.7 x 7.1 cm)
- Display resolution, WxH: 240 x 320 pixels
- Display type: QVGA, 256 colours
- Weight: 11.6 oz (330 g)



• Display size, WxH: 3.0" x 4.0", 5.0" diagonal (7.6 x 10.2 cm, 12.7 cm diagonal)

• Tilt/swivel mount, transducer, trolling motor clamp and transom mount

 Unit dimensions, WxHxD: 6.0" x 5.9" x 1.8" (15.2 x 15.0 x 4.6 cm) • Display size, WxH: 2.9" x 4.0" (7.4 x 10.16 cm); 5" diag, (12.7 cm)

• Tilt/swivel mount, transducer, trolling motor clamp and transom mount

Display size, WxH: 2.1" x 2.8" (5.3 x 7.1 cm); 3.5" diag (8.9 cm diag)

Raymarine

RAYMARINE RADOME RADAR ANTENNAS

Raymarine

Model	Raymarine RD418D	Raymarine RD424D	Raymarine RD418HD	Raymarine RD424HD
Code	MM RYM RD418D	MM RYM RD424D	MM RYM RD418HD	MM RYM RD424HD
Signal Processing	Di	gital	HD	Color
Compatible with	New e Series Multifunction Displays New c Series Multifunction Displays Raymarine C Series Widescreen Multifunction Displays Raymarine E Series Widescreen Multifunction Displays Raymarine G Series Multifunction Navigation			
Networking		SeaT	alkHS	
Peak Power Output (kW)		4.0 kW (nominal)	
Antenna Type		Patch	Array	
Beam Width (Nominal)	4.9° horizontal, 25° vertical	3.9° horizontal, 25° vertical	4.9° horizontal, 25° vertical	3.9° horizontal, 25° vertical
Polarization	Horizontal			
Rotation Rate	24 rpm (nominal)			
CE Approval	Conforms to 1999/5/EC			
FCC Approval		Conforms to 47CF	R Part 2 and Part 80	
Dimensions	521 x 247 mm (20.5 x 9.7 in)	652 x 247 mm (25.7 x 9.7 in)	521 x 247 mm (20.5 x 9.7 in)	652 x 247 mm (25.7 x 9.7 in)
Weight	9.5 kg (21 lbs)	10 kg (22 lbs)	9.5 kg (21 lbs)	10 kg (22 lbs)
Input Voltage	12 - 24 V DC			
Power Consumption	40 W (20 W Standby) 60 W (25 W Standby)			W Standby)
Temperature Range	-10° to +55°C			
Humidity Limit	up to 95% at 35°C			
Maximum Operating Wind Speed		100) kts	
Maximum Range Scale	48 nm			
IF Frequency	60 MHz	(nominal)	70 MHz	(nominal)
Receiver Characteristic	Logarithmic		Linear	
Receiver Noise Figure	Less than 5 dB (including Low Noise Converter/Limiter & IF Receiver)			
Reciever Bandwidth	12/3/0.2	7/0.5 MHz	Matched digital filter	for each pulse length
Transmitting Frequency		9405 +/- 25 MHz		
Transmitter	Solid-state modulator driving Magnetron			
Standby Mode	Magnetron heater and control left on, all other services off			
Duplexer	Circulator			

MANSUETO MARINE



Raymarine

RAYMARINE HD & SUPER HD COLOR RADAR SCANNERS



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	Super HD Color Scanners				
RA3072HD	RA1048SHD	RA1072SHD	RA3048SHD	RA3072SHD	
MM RYM RA3072HD	MM RYM RA1048SHD	MM RYM RA1072SHD	MM RYM RA3048SHD	MM RYM RA3072SHD	
D Color	4kW Super HD Color 12kW Super HD Color			er HD Color	
1.8 m (6 ft)	1.2 m 1.8 m 1.2 m 1.8 m (4 ft) (6 ft) (4 ft) (6 ft)				
72	nm				
29 kg (63.9 lbs)	26 kg (57.3.4 lbs)	29 kg (63.9 lbs)	26 kg (57.3.4 lbs)	29 kg (63.9 lbs)	
1.15°	1.85°	1.15°	1.85°	1.15°	
	Less than 1°				
25	5°				
< -2	1dB				
< -3	0dB				
			/ 48 rpm nproves tracking o es or less. MFD de		
hed digital filter	for each pulse len	gth			
٤	3				
32 volts DC (us for 12V, 24V	ing supplied VCM DC Systems	1100)			
ansmit) andby) sleep)	<70W (transmit)				
256 (8	8-bit)		1		
-10°C to +	⊧55°C D6				
-20°C to -	+70°C C6				
IP)	٢6				
tandard (5m 10	m and 25 m optic	onal)			

VHF MARINE TRANSCEIVER IC-M35

Code: MM ICO 5722020

- Frequency range Tx : 156.000–161.450MHz Rx 156.000-163.425MHz
- Current drain (at 7.4V DC) : Tx 6W output 1.5A typical 5W output 1.3A typical Rx AF max. Internal speaker 300mA typical
- External speaker 200mA typical Power save 10mA typical • Operating temperature range : –15°C to +55°C
- Antenna impedance : 50Ω (STUD)
- Dimensions (W×H×D) : 62×139.5×43 mm (projections not included)
- Weight (approx.) : 295g (with BP-252, MB-109 and antenna)

ACCESSORIES				
Description	Code			
BP-251 Battery case for AAA (LR03)×5 alkaline cells. Output power: 2W.	MM ICO BP-251			
BP-252 Li-Ion BATTERY PACK 7.4V, 950mAh (min.) 980mAh (typ.). Provides 8 hours operating time (approx.). (Typical operation with Tx (Hi): Rx: standby=5:5:90)	MM ICO BP-252			
BC-173 DESKTOP CHARGER + BC-147SE/SV AC ADAPTER Charges the battery pack, BP-252, in 10 hours (approx.).	MM ICO BC-173 + BC-147SE/SV			
C-162 DESKTOP CHARGER + BC-145SE AC ADAPTER Rapidly charges the battery pack, BP-252, in 2 hours (approx.).	MM ICO BC-162 + BC-145SE			
HM-165 SPEAKERMICROPHONE Waterproof construction equivalent to IPX7 (1 m depth for 30 min.).	MM ICO HM-165			
MB-109 BELT CLIP Alligator type. Same as supplied.	MM ICO MB-109			
FA-SC58V ANTENNA Soft flexible antenna. Same as supplied.	MM ICO FA-SC58V			
	,			

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VHF MARINE TRANSCEIVER IC-M71

Code: MM ICO 5722013

- Frequency range : Tx 156.000–161.450MHz Rx 156.000–163.425MHz
- Usable channels : INT, USA* channels (* Depending on version) • Current drain (at 7.2V DC) : Tx 6W output 1.7A typical 1W output 0.7A typical Rx Internal SP 400mA typical (AF Max.)
- External SP 200mA typical (AF Max.)
- Operating Temp. range : -15°C to +55°C • Antenna impedance : 50Ω (SMA)
- Weight (approx.) : 280g (with BP-245)

Description	Code
BP-245 7.4V/2000mAh Li-Ion battery pack. Provides 15–16 hours* operating time (approx.). Same as supplied. *(Tx (Hi): Rx: standby=5:5:90).	MM ICO BP-245
BC-166 DESKTOP CHARGER + BC-147E AC ADAPTER Regularly charges the battery pack, BP-245 in 11–12 hours (approx.). Same as supplied.	MM ICO BC-166 + BC-147E
BC-119N DESKTOP CHARGER + AD-114 CHARGER ADAPTER + BC-145E/UK AC ADAPTER For rapid charging of a battery pack. Charging time: 3–4 hours. (approx.)	MM ICO BC-119N + AD-114 + BC-145
BC-121N MULTI-CHARGER + AD-114 CHARGER ADAPTER + BC-157 AC ADAPTER For rapid charging of up to 6 battery packs (Six AD-114s are required). Charging time: 3–4 hours. (approx.)	MM ICO BC-121N + AD-114 + BC-157
OPC-656 DC POWER CABLE (12–16 V DC required)	MM ICO OPC-656
HS-94 : Earhook headset with flexible boom microphone.	MM ICO HS-94
HS-95 : Behind-the-head headset with flexible boom microphone.	MM ICO HS-95
HS-97 : Throat microphone fits around your neck and picks up speech vibrations.	MM ICO HS-97
SPEAKER-MICROPHONE HM-125 Full sized, submersible construction corresponds to IPX7 (1m depth for 30 minutes).	MM ICO HM-125
BELT CLIP MB-86: Swivel-type.	MM ICO MB-86
BELT CLIP MB-103: Alligator-type. Same as supplied.	MM ICO MB-103

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PMR446 FM TRANSCEIVER IC-4088SR



Code: MM ICO 5723955

- Number of channels : 8 (simplex; 446.00625-446.09375MHz)
- Battery requirements : 3 × AA (R6) alkaline cells; or optional BP-202
- Operating Temp. range : -20°C to +55°C
 Dimensions (W×H×D) : 60.5×1115.6×26.9 mm (projections not included)
- Weight (approx.) : 200g (includes 3 alkaline cells)

ACCESSORIES			
Description	Code		
Ni-Cd battery cell assembly. Install into the battery cell space in the transceiver. 3.6V/700mAh	MM ICO BP-202		
Wall charger 6V DC, 1A output AC adapter. Charges the BP-202, while operating the radio.	MM ICO BC-149D		
Cigarette lighter cable 6V DC, 2A output from 12V cigarette lighter socket with internal DC-DC converter.	MM ICO CP-18E		
Desktop charger. Rapidly charges installed Ni-Cd battery cell assembly, BP-202.	MM ICO BC-119N		
The charger adapter and the AC adapter supplied with the BC-119N depending on version. Charging time: 75 to 85 min.	MM ICO BC-145D/UK		
The charger adapter and the AC adapter supplied with the bC-119N depending on version. Charging time, 75 to 65 min.	MM ICO AD-105		

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VHF MARINE TRANSCEIVER IC-M23

Code: MM ICO 5722025

- Frequency range :
- TX 156.000-161.450MHz
- RX 156.000–163.425MHz
- Usable channel groups : INT, USA* channels; 70 programmable channels (* Depending on version)
- Type of emission : 16K0G3E (FM)
- Current drain (at 3.7V DC) :
- Tx High 2.3A Rx AF max. 350mA typ.
- Power save 8mA typ.
- Operating temp. range : –15°C to +55°C
- Antenna impedance : 50Ω (Stud)
 Dimensions (W×H×D) : 58.5×128.5×34.5 mm (projections not included)
- Weight (approx.) : 260g (With BP-266, FA-SC58V, MB-124)

ACCESSORIES	
Description	Code
Li-Ion battery pack BP-266 3.7V, 1500/1590 mAh (min./typ.)	MM ICO BP-266
Wall Charger BC-1995* Charges BP-266 in 8.5 hours (approx.).	MM ICO BC-1995
Rapid Desktop Charger BC-145S* BC-119N+AD-123* Charges BP-266 in 2.5 hours. (approx.).	MM ICO BC-145S + BC-119N+AD-123*
Cigarette Lighter Cable CP-24 with built-in DC-DC converter	MM ICO CP-24
Belt Clip MB-124	MM ICO MB-124
Antenna FA-SC58V	MM ICO FA-SC58V

* BC-199SA/BC-145SA for 120V AC. SE for 230V AC. SV for 240V AC. BP-266 must be removed from the radio for charging in the BC-119N.



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• Usable channels : INT, USA* channels; 70 programmable channels (* Depending on version)

• Dimensions (W×H×D) : 52.5×125×30 mm (projections not included)

RADIOS

VHF



MM ICO CP-17L

MM ICO HM-138

MM ICO MB-79

MM ICO MB-86

ICOM

VHF MARINE TRANSCEIVER IC-M91D



- Frequency range: Tx: 156.000~161.450MHz
- Rx: 156.000~163.425MHz

HM-138 SPEAKER-MICROPHONE Full sized, water resistant construction corresponds to JIS grade 7 (1 m/30 min.). Equipped with an alligator type clip.

MB-79 BELT CLIP Alligator type belt clip. MB-86 SWIVEL BELT CLIP Swivel belt clip. Prevents accidental dropping from your belt. The same as that supplied.

- Usable channel groups: INT channels Type of emission: 16K0G3E (FM)
- 16K0G3B (DSC) • Current drain (at 7.4V.DC
- Tx 5W output: 1.5A
- Rx AF Max: 500mA
- Operating temp. range: -15oC to +55oC
- Antenna impedance: 50 ohms
- Dimensions (W x H x D) (Projections not included): 61.2 x 141.4 x 43.2 mm
- Weight (approx): 318g (With BP-275, FA-SC59V, MB-109)

ACCESSORIES	
Description	Code
BATTERY PACK BP-275 Li-lon 7.4V. 1500mAh	MM ICO BP-275
REGULAR CHARGER BC-01 - BC-204	MM ICO BC-01 - MM ICO BC-204
RAPID CHARGER BC-06 - BC-205	MM ICO BC-06 - MM ICO BC-205
MULTI-CHARGER BC-197 - BC-157S	MM ICO BC-197 - MM ICO BC-1575
SPEAKER MICROPHONE HM-167	MM ICO HM-167
BELT CLIP MB-109	MM ICO MB-109
LEATHER BELT HANGER MB-96F	MM ICO MB-96F
CIG. LIGHTER CABLES: CP-25 For use with BC-204 / CP-23L For use with BC-205	MM ICO CP-25 - MM ICO CP-23L
DC POWER CABLES: OPC-515L For use with BC-205 / OPC-656 For use with BC-197	MM ICO OPC-515L - MM ICO OPC-656

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AVAILABLE	•	Battery Packs
ACCESSORIES	•	Battery Charg
ACCESSONES	•	Ear Sets

COMMANDMIC[™]: HM-195B (Black) / HM-195SW (Super white) - 6.1m (20ft) of cable,

Code: MM ICO 5722429

CH70 156.525MHz

Rx 156.000-163.425MHz

Current drain (at 12.0V DC)

Tx 25W output: 5.5A

• Weight (approx.): 1.2kg

VHF MARINE TRANSCEIVER IC-M423

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• Usable channel : INT, USA* channels groups * Available depending on version

ORIES	
	Code
me as supplied.	MM ICO HM-164B
as an instrument control panel.	MM ICO MB-69
provides floating ground connection.	MM ICO OPC-1758

• Frequency range: Tx 156.000–161.450MHz

• Usable channels: INT, USA* channels * Available depending on version Type of emission: 16K0G3E (FM), 16K0G2B (DSC) • Power supply requirement: 13.8V DC nominal (10.8–15.6V DC)

Rx AF max. (RX SP ON): 5.0A (External speaker) • Operating temperature range: -20°C to +60°C • Antenna impedance: 50Ω (SO-239) Dimensions (W×H×D) (projections not included): 180×82×119.9mm

NMEA in/out formats: RMC, GGA, GNS, GLL, DSC, DSE

ACCESSORIES

Description	Code
MIC™: HM-195B (Black) / HM-195SW (Super white) - 6.1m (20ft) of cable, Microphone hanger, Mounting base for connector supplied	MM ICO HM-195B - MM ICO HM-195SW
OPC-1541 EXTENSION CABLE for COMMANDMIC, HM-195B/SW - 6.1m (20ft) extension cable. Up to two cables available.	MM ICO OPC-1541
FLUSH MOUNT KIT MB-132	MM ICO MB-132
CLASS B AIS TRANSPONDER MA-500TR	MM ICO MA-500TR

gers

- Belt Clips
- Antennas •

•

Speaker Microphones

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INTEGRAL GRILL PERFORMANCE SPEAKER

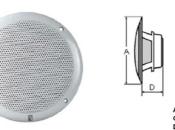
MA4055 **5" 2 WAY COAX**



Features:

- Stainless steel mounting harware included Available in Black color (Part# MA4055B) and White color
- (Part# MA4055W) speaker

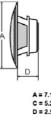




Features:

• Stainless steel mounting harware included Available in Black color (Part# MA4055B) and White color (Part# MA4055W) speaker





• Stainless steel mounting harware included Available in Black color (Part# MA4055B) and White color



Features:

- Available in White color speaker only

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AUDIO

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MR45D-CPAK - MR45 STEREO, MA206 SPEAKER & WC2 SPLASH COVER COMBO PACK



Features:

- MRR2 wireless remote compatible (sold separately)
- MR45R wired remote compatible (sold separately)
- Adjustable backlight display
- Built-in IR receiver (front) and IR input (back) unit will interface with Poly-Planar IR Speakers
- Front and Back AUX-Input available for your MP3 music device
- iPod® Input available for your iPod®/iPhone® devices
- USB Input available to play your music in a USB Flash drive

Accessories



MM POL ACX10 USB/AUX Accessory Extension Cable

MM POL MR45R

Wired Remote Control

for MR45 and MRD80



MM POL DA1 5' Dipole Wire Antenna

MM POL IPC4580 5' iPod® adapter cable

MM POL IR4050 - IR Remote Sensor with 9'cable

Subwoofer

MM POL ME400D Class D Power Amplifier



Sirius Tuner-without antenna

MANSUETO MARINE





MM POL MRR21 **IR** Wireless Remote

MM POL MRRF18 **RF** Wireless Remote

MM POL MS55 Waterproof Box

Code: MM POL MR45D-Cpak

separately).

Specifications:

MR45D-Cpak is a combo package of MR45 stereo, a pair of MA206 speaker and WC2 splash cover. MR45 is the

AM/FM/CD and/or Sirius Satellite Ready Stereo. MR45 is a stereo receiver designed specifically for the marine

Back AUX-Input available for your MP3 music device, iPod® Input available for your iPod®/iPhone® devices

and USB Input available to play your music from a USB

Flash drive. Wired and Wireless Remotes available (sold

• MA206 Speaker Impedance: 4 ohms

 MA206 Speaker Overall Diameter: 7-1/2" • MA206 Speaker Cutout Diameter: 5-13/16"

• MR45 Stereo Overall Dimension: 7-1/16" X 2-1/16" X 7-7/8"

MA206 Max Power Handling per speaker: 40 watts

environment with adjustable backlight display. Front and



MA4056 6" 2 WAY COAX

MA4600

6" DUAL CONE





- - (Part# MA4055W) speaker



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AUDIO



A = 5.91" / 150.1mr C = 4.41" / 112mm D = 2.2" / 55.9mm

Code: MM POL MA4055

Specifications:

- Type: 2-way Coaxial
- Cone Size: 5" (127mm)
- Peak Power: 80 watts per pair
- Continuous Power: 40 watts RMS/pair
- Weight: 1.20 lbs per unit weight
- Outside Diameter: 5 15/16" (150mm)
- Cutout Diameter: 4 7/16" (112mm)
- Mounting Depth: 2 1/4" (56mm)

A = 5.2" / 132.1mm C = 4.02" / 102.1mm D = 2.13" / 54.1mm

Code: MM POL MA4054

Specifications:

- Type: 2-way Coaxial
- Cone Size: 4" (102mm)
- Peak Power: 80 watts per pair
- Continuous Power: 40 watts RMS/pair
- Weight: 1.2 lbs per unit weight
- Outside Diameter: 5 1/4" (132mm)
- Cutout Diameter: 4 1/16" (102mm)
- Mounting Depth: 2 1/8" (54mm)

A = 7.17" / 182.1mm C = 5.2" / 132.1mm D = 2.56" / 65mm

Code: MM POL MA4056

Specifications:

- Type: 2-way Coaxial
- Cone Size: 6" (152mm)
- Peak Power: 80 watts per pair
- Continuous Power: 40 watts RMS/pair
- Weight: 1.55 lbs per speaker
- Outside Diameter: 7 3/16" (182mm)
- Cutout Diameter: 5 1/4" (132mm)
- Mounting Depth: 2 9/16" (65mm)



A = 7.17" / 182.1mm C = 5.59" / 142mm D = 2.07" / 52.6mm

Code: MM POL MA4600

Specifications:

- Type: dual-cone speaker
- Cone Size: 6" (152mm)
- Peak Power: 80 watts per pair
- Continuous Power: 40 watts RMS/pair
- Weight: 1.10 lbs per speaker
- Outside Diameter: 7 3/16" (182mm)
- Cutout Diameter: 5 5/8" (142mm)
- Mounting Depth: 2 1/8" (53mm)

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MA8505 - 5" TITANIUM SERIES SPEAKER

Code: MM POL MA8505



Features:

- Colorfast plastic frame withstands UV rays
- Anti-magnetic design
- Waterproof construction throughout
- Rugged powder coated stainless steel grill
- 3-way design with mylar tweeter & midrange
- Available in Black color (Part# MA8505B) and White color (Part# MA8505W) speaker

<u> poly-planar.</u>

MA8506 - 6" TITANIUM SERIES SPEAKER

Code: MM POL MA8506



Features:

- Colorfast plastic frame withstands UV rays
- Anti-magnetic design
- Waterproof construction throughout
- Rugged powder coated stainless steel grill
- 3-way design with mylar tweeter & midrange
- Available in Black color (Part# MA8506B) and White color (Part# MA8506W) speaker

poly-planar.

WC400 - STEREO WEATHER ENCLOSURE

Code: MM POL WC400



Features:

- Accommodates any dual post, removable and DIN-style stereos
- High Impact ABS Housing
- Stainless Steel Bracket
- Dash or Overhead Mounting
- Mounting Hardware Included
- Available in Black (Part# WC400B) or White (Part# WC400) color

Specifications:

- Peak Power: 200 watts
- Continuous Power: 100 W RMS/pair
- Speaker Impedance: 4 ohm
- ASTM UV & Salt Spray Test: Meets or Exeeds 600hrs
- Weight (each): 1.85 lbs per Speaker
- Mounting Depth: 2 7/16" (62mm)
- Outside Grill: 6" (153mm)
- Frequency Response: 55Hz to 20KHz (3 way)

Specifications:

- Peak Power: 200 watts
- Continuous Power: 100 W RMS/pair
- Speaker Impedance: 4 ohm
- ASTM UV & Salt Spray Test: Meets or Exeeds 600hrs
- Weight (each): 1.85 lbs per Speaker
- Mounting Depth: 2 7/16" (62mm)
- Outside Grill: 7" (177mm)
- Cutout: 5 9/16" (140mm)
- Frequency Response: 55Hz to 20KHz (3 way)
- SPL: 90dB
- Cone Size: 6" (152mm)

Install virtually any auto or marine stereo on your boat without fear of damage from moisture, corrosion or UV rays. The WC400 is waterproof housing that surrounds your stereo on all sides for maximum protection. A gasket-sealed, polycarbonate splash cover on the front of the rugged ABS enclosure prevents water from entering. The hinged cover lifts easily and remains out of the way in any of several positions. When open, it maintains partial splash protection while still allowing access to stereo controls. Wires and a rear connector let you hook up the stereo and antenna through the housing. A gimbal mounting bracket permits installation above or below the dash, under an electronic box or on any convenient horizontal surface.

Specifications:

• Overall Dimensions: 4-3/16" (H) x 9-1/16" (W) x 10-5/16" (D)

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RM10 - OVERHEAD RADIO MOUNT

Code: MM POL RM10



Features:

- UV stabilized ABS housing
- Fits DIN and Post-mount Stereos
- Can be installed overhead or under dash
- Mounting hardware included
- Accepts PolyPlanar and most other brands of stereos

poly-planar.

SBC1 - 7-1/8" SPEAKER BACK COVER

Code: MM POL SBC1

Features:

poly-planar.

SBC2 - 8-1/2" SPEAKER BACK COVER

Code: MM POL SBC2



We deliver ALL OVER EUROPE MORE THAN 1.000.000 articles on stock WITH OUR OWN MEANS OF TRANSPORT

- Cutout: 4 1/2" (115mm)
- SPL: 90dB
- Cone Size: 5"

13

RM-10 Radio Mount is designed to accommodate today's larger front panel format Marine radios as well as older DIN style and Post mount. Made from heavy wall ABS plastic, the RM-10 has room for all the accessory cables found on the newest radios. Accepts Poly Planar, Sony, Jensen, Marine AV and even Clarion CMD4!

Specifications:

• Length: 11-15/16" (302mm) • Width: 10-7/16" (265mm) • Height: 4-3/8" (111mm)

Provide protection to the back side of the speakers, behind a bulkhead or wall. Covers wire connections and protects the speakers cones.

• Slotted mounting holes match stud locations on most speakers • Covers wire connectors • Compact size fits Poly-Planar MA4054, MA4055, MA4056, MA8505, MA8506, MA6500 and MA5106 speakers

Specifications:

Diameter Size: 7-1/8"

Provide protection to the back side of the speakers, behind a bulkhead or wall. Covers wire connections and protects the speakers cones

• Hide and protect valuable speakers • High Impact white ABS • Compact size fits Poly-Planar MA4054, MA4055, MA4056, MA4600 and MA5104 speakers

Specifications:

Diameter Size: 8-1/2"

24/7 Express DELIVERY to the Mediterranean

poly-planar.

SBC3 - 11" SPEAKER BACK COVER

Code: MM POL SBC3



Features:

- Hide and protect valuable speakers
- High Impact white ABS
- Compact size fits Poly-Planar MA6600, MA6800, MA6900, MA5107, MA5950 speakers and MS150 subwoofer

poly-planar.

WC3 - RADIO SPLASH COVER

Code: MM POL WC3



Features:

- Hide and protect valuable speakers
- High Impact white ABS
- Compact size fits Poly-Planar MA6600, MA6800, MA6900, MA5107, MA5950 speakers and MS150 subwoofer

poly-planar.

MS55 - WATERPROOF BOX SUBWOOFER

Code: MM POL MS55



Features:

- Dual Voicecoil, high-excursion, 5.25" woofer
- High density, UV stable enclosure
- Water resistant
- Bass-reflex, high-efficiency acoustic design
- Side vented output ports
- Compact size and molded-in mounts provide for convenient installation nearly anywhere
- Acoustically matched for use with Poly-Planar ME-51, MZ-60 and ME-400D amplifiers or can be used with any amplifier 25 - 100 watts

Provide protection to the back side of the speakers, behind a bulkhead or wall. Covers wire connections and protects the speakers cones.

Specifications: • Diameter Size: 11.00"

The gasket-sealed lid on this splash cover prevents water entry into virtually any marine or spa stereo on the market. Accommodates any dual post, removable and DIN-style stereos. Contemporary styling makes it an attractive addition to the dashboard or wall. The lid lifts easily and stays open in multiple positions to maintain partial splash protection while allowing access to radio controls. Stainless steel mounting hardware (included) ensures that corrosion will not damage the mount.

Specifications:

• Diameter Size: 11.00"

The MS-55 subwoofer is a compact, high efficiency bass enclosure optimized for marine applications. It's small size enables it to be easily mounted below seats, under the gunwale area, behind the instrument panel, or any convenient location. The MS-55 is a self contained bass unit requiring no cutting of panels or holes in the boat interior. It produces solid, deep bass extending down to 40Hz and is the perfect addition to any audio system.

Specifications:

- Power Handling: 100 Watt RMS
- Speaker Impedance: 4 ohm x 2 inputs
- Frequency Range: 40 Hz 300 Hz
- Weight: 8.5 lb (3.8g)
- Width: 8-5/8" (218mm)
- Length: 11-1/2" (292mm)
- Height: 4-13/16" (122mm)



//////LPINE

MC-20 + MC-2 - WIRELESS MARINE REMOTE COMMANDER

Codes: MM ALN MC20 MM ALN MC2



onboard the boat.

Dual-Zone Volume Control (with CDA-118M only) MC-20 Wireless Main Commander (incl. RF-transmitter) MC-2 Sub Commander

Overview MC-20

- Dual-Zone Volume Control (with CDA-118M only)
- Compatible with all Alpine Marine Head Units
- High contrast display designed to work in direct sunlight
- song fast on any source • IPx6 Waterproof Design - mount it
- anywhere Connects through Alpine's SWRC input and Vehicle Display output Wireless operation (using RF transceiver)
- Multiple Commanders can be used together in one system
- IPx6 High Pressure WJ
- Salt/Fog (ASTM B117) Certified

//////LPINE

SPR-M70 - 17,8 CM COMPONENT 2-WAY SPEAKER

Codes: MM ALN SPRM70

Specifications

Power Handling

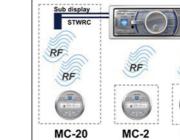
• Power Rating (RMS): 70 Watts

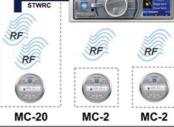
Dimensions

- Tweeter Mounting Depth (mm): 25mm
- Woofer Diameter (mm): 195.9mm
- Woofer Mounting Diameter (mm): 162.6mm

- General
- Frequency Response: 45Hz 22kHz
- Impedence: 4 ohm
- Sensitivity: 90 dB 1W/1m

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MC-20 / MC-2 Marine Controller Solution - Ready to take command Thanks to ingenious Controller Solutions each Alpine Marine System can be controlled from almost anywhere

The wireless waterproof MC-20 Remote Commander which includes the wired main transmitter/receiver unit is ready for optional cockpit use. It gives multi-zone control over all marine sources. In addition to control the head unit, it provides full control over additional sources like iPod® and CD/DVD changer.

• Quick Search lets you find your favourite

- **Overview MC-2**
- Dual-Zone Volume Control (with CDA-118M only)
- Compatible with all Alpine Marine Head Units
- High contrast display designed to work in direct sunlight
- Quick Search lets you find your favourite song fast on any source
- IPx6 Waterproof Design mount it anywhere
- Multiple Commanders can be used together in one system
- IPx6 High Pressure WJ
- Salt/Fog (ASTM B117) Certified
- UV (ASTM G154/D4329) Certified
- Wireless operation (using RF transceiver)

• UV (ASTM G154/D4329) Certified

• Power Handling Capacity (Peak): 210 Watts

• Tweeter Mounting Diameter (mm): 55.3mm • Woofer Mounting Depth (mm): 93.1mm



/////LPINE

CDA-118M - MARINE CD RECEIVER / IPOD® CONTROLLER

Codes: MM ALN CDA118M



Features

- Tuner
- Bluetooth®
- Connection for iPod®
- Connection for USB
- Disc Player

Specification

- Power Requirement: 14.4 V (11-16 V) DC
- Pre Output Voltage (Before Clipping): 2 V
- Operating Temperature (°C): 60 °C to -10 °C
- Maximum Mounting Angle: 30° from Horizontal
- Weight: 2.0 kg (4 lbs. 6 oz)
- Max Power Output: 50W x 4

Remote Control

• Model Number: RUE-M1RF (Optional)

- Marine
- Water Proof: IPx5
- UV Coating: ASTMG154
- Salt/Fog: ASTMG117

- Sound Tuning
- CD Changer Control

Dimensions

DIN Size: 1.8

- Chassis Size (W x H x D) mm: 181.5 mm x 51.5 mm x 187 mm
- Nose Piece Size (W x H x D) mm: 200 mm x 92.5 mm x 50 mm

//////LPINE

CDA-9886M - MARINE CD RECEIVER

Codes: MM ALN CDA9886M



Features

- CD Changer Control
- Sound Tuning
- Disc Player
- Connection for iPod®
- Bluetooth®
- Tuner

Specification

- General
- Weight: 1.6kg (3lbs 8oz)
- Maximum Mounting Angle: 35° from Horizontal
- Operating Temperature (°C/ °F): 60 °C (140 °F) to -10 °C (14 °F)
- Pre Output Voltage (Before Clipping): 4V
- Power Requirement: Power Requirement: 14.4 (11-16) V.DC
- Dimensions
- Nose Piece Size (W x H x D): 170mm x 46mm x 24mm
- Chassis Size (W x H x D): 178mm x 50mm x 160mm
- Din Size: 1

//////LPINE

iDA-X100M - MARINE DIGITAL MEDIA RECEIVER

Codes: MM ALN iDAX100M



Features

- CD Changer Control
- Sound Tuning
- Connection for iPod®
- Connection for USB
- Bluetooth®
- Tuner

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Specification General

Max Power Output: 4 x 50W

Dimensions

- DIN Size: 1
- Chassis Size (W x H x D): 178mm x 50mm x 160mm

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- Power Requirement: 14.4 (11-16) V.DC
- Pre Output Voltage (Before Clipping): 2V
- Operating Temperature (°C): 60 °C to -10 °C



//////LPINE

PDX-1.600M - MARINE MONO DIGITAL AMPLIFIER

Codes: MM ALN PDX1600M



General 80 dBA

Specification

- Dimensions

Sound Tuning

Crossover: Variable, 50Hz - 200Hz (-24dB / oct), Low-Pass

CEA-2006 Power Ratings

• CEA-2006 Power Rating: (4/2 Ω @14.4V ≤1% THD+N), S/N: 80dBA, ref:1W into 4 Ω) 600W x 1

//////LPINE

PDX-4.100M - MARINE 4 CHANNEL DIGITAL AMPLIFIER

Codes: MM ALN PDX4100M



Sound Tuning

- Crossover: Variable, 30-400Hz (-12dB / oct), Low-Pass/High-Pass /OFF Selectable
- **CEA-2006** Power Ratings
- CEA-2006 Power Rating: (4/2 Ω@14.4V ≤1%THD+N), S/N 76dBA (Ref. 1W into 4 Ω): 100w x 4

//////LPINE

SWR-M100 - MARINE SUBWOOFER

Codes: MM ALN SWRM100

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Specification Dimensions

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Signal to Noise: CEA 2006 S/N Ratio (IHF A Weighted, Reference: 1W into 4Ω)

• Speaker Impedance: 4 or 2 Ω Frequency Response: 20Hz - 200Hz (20Hz/-3dB) • Input Sensitivity: 0.1V to 8.0V (For Rated Power) • Power Requirements: 14.4V DC (11V to 16V)

Heat Sink (WxHxD): 257mm x 192mm x 62mm

RMS Power Ratings

- Per channel into 2 Ω: (@ 14.4V ≤1%THD+N, 20Hz-200Hz) 600W x 1
- Per channel into 4 Ω: (@ 14.4V ≤1%THD+N, 20Hz-200Hz) 600W x 1

• Signal to Noise: CEA 2006 S/N Ratio (IHF A Weighted, Reference: 1W into 4Ω)

• Frequency Response: 20Hz - 20kHz (+0, -1dB) • Input Sensitivity: 0.2V to 4.0V (For Rated Power) • Power Requirements: 14.4V DC (11V to 16V)

Heat Sink (WxHxD): 257mm x 192mm x 62mm

RMS Power Ratings

- Bridged 4 Ohms: Bridged into 4 Ω (≤1%THD+N) 200w x 2
- Per channel into 2 Ω : (@14.4V \leq 1%THD+N, 20Hz-20kHz) 100W x 4
- Per channel into 4 Ω: (@14.4V ≤1%THD+N, 20Hz-20kHz) 100W x 4

• Added Volume: 0.055 cu. ft. (Reverse Mount, Magnet Out) • Displacement: 0.083ft cu. ft. (Front Mount) Mounting Diameter: 229 mm Mounting Depth: 144.72 mm Power Handling • Peak Power Handling: 900 Watts • RMS Power Handling: 300 Watts • CEA-2006 Power Rating: 300 Watts

/////LPINE.

SPS-M600 - 16,5 CM 2-WAY COAXIAL SPEAKER

Codes: MM ALN SPSM600



- Specification General
- Sensitivity: 89dB / W(1m)
- Impedance: 4 Ω
- Frequency Response: 60Hz 22khz
- Dimensions
- Woofer Mounting Depth: 72.1mm
- Woofer Mounting Diameter: 127mm
- Woofer Diameter: 165.1mm
- Power Handling
- Power Handling Capacity (Peak): 100 Watts
 Power Handling Capacity (RMS): 30 Watts
- CEA-2031 Power Rating: 30 Watts

/////LPINE.

SPR-M700 - 17,8 CM 2-WAY COAXIAL SPEAKER

Codes: MM ALN SPRM700



- Sensitivity: 90dB / W(1m)
- Impedance: 4 Ω
- Frequency Response: 45Hz 22kHz
- Dimensions
- Woofer Mounting Depth: 3-31/32"
- Woofer Mounting Depth: 93.1mm Woofer Mounting Diameter: 6-13/32"
- Woofer Mounting Diameter: 162.6mm
- Woofer Diameter: 7-23/32"
- Woofer Diameter: 195.9mm
- Power Handling
- Power Handling Capacity (Peak): 150 Watts
- Power Handling Capacity (RMS): 50 Watts
- CEA-2031 Power Rating: 50 Watts

RUE-M1RF – HANDY CONTROLLER

Codes: MM ALN RUEM1RF



- Compatible with all Alpine Marine Head Units
- Water-resistant
- RF remote works up to 30 metres away from the unit
- Up to 8 of these remotes can be programmed to work with the RUE-M1RF
- Multiple controllers can be used together in one system • IPx67
- Salt/Fog (ASTM B117) Certified
- UV (ASTM G154/D4329) Certified

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NAUTICAL PUBLICATIONS

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SAILING DIRECTIONS



Code	NP No	Title
MM CAI NP1	1	Africa Pilot Vol 1
MM CAI NP2	2	Africa Pilot Vol 2
MM CAI NP3	3	Africa Pilot Vol 3
MM CAI NP4	4	South-East Alaska Pilot
MM CAI NP5	5	South America Pilot Vol 1
MM CAI NP6	6	South America Pilot Vol 2
MM CAI NP7	7	South America Pilot Vol 3
MM CAI NP7A	7A	South America Pilot Vol 4
MM CAI NP8	8	Pacific Coasts of Central America and United States Pilot
MM CAI NP9	9	Antarctic Pilot
MM CAI NP10	10	Arctic Pilot Vol 1
MM CAI NP11	11	Arctic Pilot Vol 2
MM CAI NP12	12	Arctic Pilot Vol 3
MM CAI NP13	13	Australia Pilot Vol 1
MM CAI NP14	14	Australia Pilot Vol 2
MM CAI NP15	15	Australia Pilot Vol 3
MM CAI NP18	18	Baltic Pilot Vol 1
MM CAI NP19	19	Baltic Pilot Vol 2
MM CAI NP20	20	Baltic Pilot Vol 3
MM CAI NP21	21	Bay of Bengal Pilot
MM CAI NP22	22	Bay of Biscay Pilot
MM CAI NP23	23	Bering Sea and Strait Pilot
MM CAI NP24	24	Black Sea and Sea of Azov Pilot
MM CAI NP25	25	British Columbia Pilot Vol 1
MM CAI NP26	26	British Columbia Pilot Vol 2
MM CAI NP27	27	Channel Pilot
MM CAI NP28	28	Dover Strait Pilot
MM CAI NP30	30	China Sea Pilot Vol 1
MM CAI NP31	31	China Sea Pilot Vol 2
MM CAI NP32	32	China Sea Pilot Vol 3
MM CAI NP33	33	Philippine Islands Pilot
MM CAI NP34	34	Indonesia Pilot Vol 2
MM CAI NP35	35	Indonesia Pilot Vol 3
MM CAI NP36	36	Indonesia Pilot Vol 1
MM CAI NP37	37	West Coasts of England and Wales Pilot
MM CAI NP38	38	West Coast of India Pilot
MM CAI NP39	39	South Indian Ocean Pilot
MM CAI NP40	40v	Irish Coast Pilot
MM CAI NP41	41	Japan Pilot Vol 1
MM CAI NP42A	42A	Japan PilVot Vol 2

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Code	NP No	Title
MM CAI NP42B	42B	Japan Pilot Vol 3
MM CAI NP42C	42C	Japan Pilot Vol 4
MM CAI NP43	43	South and East Coasts of Korea, East Coast of Siberia and Sea of Okhotsk Pilot
MM CAI NP44	44	Malacca Strait and West Coast of Sumatera Pilot
MM CAI NP45	45	Mediterranean Pilot Vol 1
MM CAI NP46	46	Mediterranean Pilot Vol 2
MM CAI NP47	47	Mediterranean Pilot Vol 3
MM CAI NP48	48	Mediterranean Pilot Vol 4
MM CAI NP49	49	Mediterranean Pilot Vol 5
MM CAI NP50	50	Newfoundland and Labrador Pilot
MM CAI NP51	51	New Zealand Pilot
MM CAI NP52	52	North Coast of Scotland Pilot
MM CAI NP54	54	North Sea (West) Pilot
MM CAI NP55	55	North Sea (East) Pilot
MM CAI NP56	56	Norway Pilot Vol 1
MM CAI NP57A	57A	Norway Pilot Vol 2A
MM CAI NP57B	57B	Norway Pilot Vol 2B
MM CAI NP58A	58A	Norway Pilot Vol 3A
MM CAI NP58B	58B	Norway Pilot Vol 3B
MM CAI NP59	59	Nova Scotia and Bay of Fundy Pilot
MM CAI NP60	60	Pacific Islands Pilot Vol 1
MM CAI NP61	61	Pacific Islands Pilot Vol 2
MM CAI NP62	62	Pacific Islands Pilot Vol 3
MM CAI NP63	63	Persian Gulf Pilot
MM CAI NP64	64	Red Sea and Gulf of Aden Pilot
MM CAI NP65	65	St Lawrence Pilot
MM CAI NP66	66	West Coast of Scotland Pilot
MM CAI NP67	67	West Coasts of Spain and Portugal Pilot
MM CAI NP68	68	East Coast of the United States Pilot Vol 1
MM CAI NP69	69	East Coast of the United States Pilot Vol 2
MM CAI NP69A	69A	East Coasts of Central America and Gulf of Mexico Pilot
MM CAI NP70	70	West Indies Pilot Vol 1
MM CAI NP71	71	West Indies Pilot Vol 2
MM CAI NP72	72	Southern Barents Sea and Beloye More Pilot
MM CAI NP100	100	The Mariner's Handbook
MM CAI NP136	136	Ocean Passages for the World
MM CAI NP3501	350(1)	Admiralty Distance Tables - Atlantic Ocean
MM CAI NP3502	350(2)	Admiralty Distance Tables - Indian Ocean
MM CAI NP34	350(3)	Admiralty Distance Tables - Pacific Ocean
MM CAI NP35	735	Maritime Buoyage System

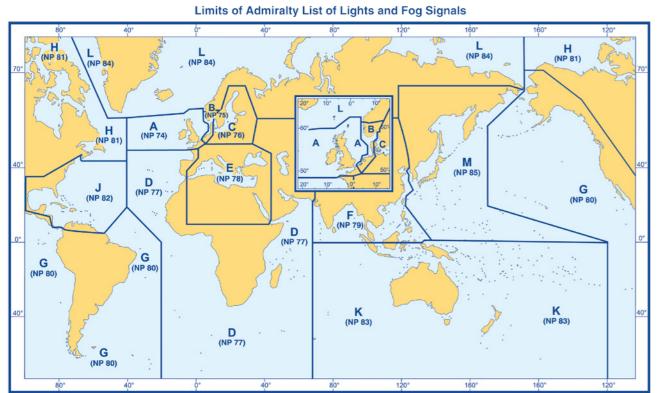
ADMIRALTY (S) LIST OF LIGHTS



This series of books provides extensive information on all lighthouses, lightships, lit floating marks (over 8m in height), fog signals and other lights of navigational significance. Each publication also gives the characteristics of lights and fog signals, together with the equivalent foreign language light descriptions. Tables can be used to calculate the geographical and luminous ranges of lights. Details for all lights listed include the international number, location and/or name, geographical co-ordinates, characteristics and intensity, elevation in metres, range in sea miles and description of structure.

Ordering Code:

MM CAI + required area



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TIDAL PUBLICATIONS



Code	Description
MM CAI NP201-204	NP201-204 Admiralty Tide Tables Admiralty Tide Tables detail the times and heights of high and low waters for over 230 standard and 6000 secondary ports in the UK and Ireland, Europe, the Indian Ocean, South China Sea and Pacific Ocean for each day of the year. The tables outline methods of prediction, the effect of meteorological conditions on tides and provide additional information on exceptional tidal factors in each area.
MM CAI NP120	NP120 Admiralty Manual of Tides This is a largely mathematical, detailed description of tidal theory and its application to the analysis and prediction of tides and tidal streams.
MM CAI NP122 1-3	NP122 1-3 Admiralty Tidal Handbooks These three volumes outline the Admiralty method of harmonic tidal analysis for long and short observation periods and include information on datums for hydrographic surveys.

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LIST OF RADIO SIGNALS



Code	
MM CAI NP281	NP 281 (Parts 1 & 2) - Maritime Radio Stations
MM CAI NP282	NP 282 - Radio Aids to Navigation, Satellite Navigation Syst Fixing Systems
MM CAI NP283	NP 283 (Parts 1 & 2) - Maritime Safety Information Services
MM CAI NP284	NP 284 - Meteorological Observation Stations
MM CAI NP285	NP 285 - Global Maritime Distress and Safety System (GMD
MM CAI NP286	NP 286 (Parts 1 - 7) - Pilot Services, Vessel Traffic Services a

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OTHER PUBLICATIONS



Code	
MM CAI NP35013	NP350 1-3 Admiralty Distance Tables A three part series of tables, sub-divided by region, giving the well as link tables for places not in the same or adjacent table
MM CAI NP131	NP131 Catalogue of Admiralty Charts and Publicatio A comprehensive reference in graphical and textual form of gives full details for each chart and publication, including de published annually.
MM CAI NP133A	NP133A Paper Chart Maintenance Record Record your Admiralty chart updating details, weekly Notice Mariners against all Admiralty charts.
MM CAI NP294	NP294 How to Keep Your Admiralty Products Up-to- A comprehensive guide to updating all Admiralty products.
MM CAI NP735	NP735 IALA Maritime Buoyage System Describes the Cardinal and Lateral Buoyage system with diag ted danger, safe water and special marks.
MM CAI NP136	NP136 Ocean Passages for the World This classic volume on ocean voyage planning has routeing o oceans; advice on winds, weather, climate, seasonal factors, positions.
MM CAI NP5011	NP 5011 Symbols and Abbreviations Used on Admiralty Charts, Chart This convenient A4 book d hydrography; topography; navigational aids and services; ab information on the content of Admiralty paper charts.
MM CAI NP5012	NP 5012 Admiralty Guide to ENC Symbols used in ECC A companion to NP5011, intended to be used both as a train contains comprehensive information relating to ENC symbol fied forms of symbols, as well as descriptions of the use of the with reference to the chart 5011 / INT1 equivalent symbol w
MM CAI NP231	NP 231 Admiralty Guide to the Practical Use of ENCs A comprehensive reference guide to assist ENC users gain a h
MM CAI NP100	NP100 The Mariner's Handbook A compendium of essential maritime information on charts; meteorology; navigation in ice, hazards and restrictions to na

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Description

rstems, Differential GPS (DGPS) Legal Time, Radio Time Signals and Electronic Position

DSS)

and Port Operations



Description

ne shortest distances between ports. There are supporting diagrams and text as

ons f all Admiralty charts and publications worldwide, listed by region. The catalogue letails of all digital products and Admiralty distributors worldwide. Updated and

es to Mariners and new charts and editions. Use the index to check Notices to

-Date

grams and written explanations of the five types of marks: lateral, cardinal, isola-

g details for powered and sailing vessels; individual chapters on each of the world's s, currents, swell, ice hazards; and the shortest routes between ports and important

details Admiralty and INT paper chart symbols in full colour with information on bbreviations of principal terms shown on English and foreign charts; and general

CDIS

ning aid and as a reference during passage planning and navigation, this guide the symbol that can be understood by the intended users (international seafarers) where applicable

high level of understanding of the practical use of ENCs.

; operations and regulations; tides, currents and characteristics of the sea; basic avigation; and the IALA Buoyage system.

Notes

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