

RADAR ANTENNAS

Raymarine radar scanners deliver unmatched performance and reliability.

KEY RADAR FEATURES

- Plug and Play compatibility with Raymarine C-Series and E-Series multifunction navigation displays
- Raymarine's Auto GST™ automatic control of Gain, Sea Clutter and Tune
- Advanced microprocessor controlled transmitter receiver features 8 Pulse width/PRF settings, providing enhanced target returns though every range scale



RADOMES

- Choose the compact RD218 with 2kW output power and 24nm range or the larger RD424 with 48NM max range and 4kW output power
- Improved radiation pattern and bearing resolution using Propagation Enhancing Geometry
- New receiver and antenna design delivers improved sensitivity, signal to noise ratio, and a lower overall receiver noise figure

OPEN ARRAY

- Available with 4kW or 10kW power output
- 48" or 72" open arrays offer narrow horizontal beam widths for enhanced target separation
- Quiet operation
- Self-parking array always stops the antenna facing forward maintaining a ship-shape appearance

RADOME SPECIFICATIONS

	2kW, 18" Radome	4kW, 24" Radome
POWER		
Nominal Voltage (volts DC)	12v, 24v systems	12v, 24v systems
Absolute voltage range	10.8-32v DC	10.8-32v DC
Power consumption (typical/standby)	28W transmit, 9W standby	34W transmit, 10W standby
ENVIRONMENTAL		
Temperature range	-10°C to +55°C Operating -20°C to +70°C Non-Operating	-10°C to +55°C Operating -20°C to +70°C Non-Operating
Humidity	Up to 95%	Up to 95%
Waterproofing standard	IPX6	IPX6
Product Weight lbs (kg)	16.5 (7.5)	18.74 (8.5)
SCANNER FEATURES		
Maximum range scale	24nm	48nm
Transmitter frequency	9410 +/- 30MHz	9410 +/- 30MHz
Peak power output	2 kW	4 kW
Pulse length/PRF	8 (auto target/expand)	8 (auto target/expand)
Horizontal beam width -3dB	4.9°	3.9°
Vertical beam width -3dB	25°	25°
Rotation Rate	24 rpm	24 rpm

RADOME ORDERING INFORMATION

PART #	DESCRIPTION
E52065	RD218 Radome Scanner w/15M Cable
E52079	RD218 Radome Scanner Only
E52067	RD424 Radome Scanner w/15M Cable
E52080	RD424 Radome Scanner Only

OPEN ARRAY SPECIFICATIONS

	5S 4kW, 48" Open Array 7S 4kW, 72" Open Array	9S 10kW, 48" Open Array 11S 10kW, 72" Open Array
POWER		
Nominal Voltage (volts DC)	12v, 24v, 32v systems	24v, 32v systems
Absolute voltage range	10.7-44 volts	20.0-44 volts
Power consumption (typical/standby)	46/9.2 watts	80/11 watts
ENVIRONMENTAL		
Temperature range	-10°C to +55°C Operating -20°C to +70°C Non-Operating	-10°C to +55°C Operating -20°C to +70°C Non-Operating
Humidity	Up to 95%	Up to 95%
Waterproofing standard	CFR46	CFR46
Product Weight lbs (kg)	5S 66.2 (30) 7S: 73.7 (33.4)	9S 66.2 (30) 11S: 73.7 (33.4)
SCANNER FEATURES		
Maximum range scale	72nm	72nm
Transmitter frequency	9410 +/- 30 MHz	9410 +/- 30 MHz
Peak power output	4 kW	10 kW
Pulse length/PRF	8 (auto target/expand)	8 (auto target/expand)
Horizontal beam width -3dB	5S 1.85° 7S 1.15°	9S 1.85° 11S 1.15°
Vertical beam width -3dB	25°	25°
Rotation Rate	24 rpm	24 rpm

OPEN ARRAY ORDERING INFORMATION

PART #	DESCRIPTION
T52001-S	5S 4kW scanner (pedestal, 4" array and 15m cable)
T52013-S	7S 4kW scanner (pedestal, 6" array and 15m cable)
T52012-S	9S 10kW scanner (pedestal, 4" array and 15m cable) (24v DC only)
T52014-S	11S 10kW scanner (pedestal, 6" array and 15m cable) (24v DC only)

DIGITAL SOUNDER MODULES

Raymarine Digital Sounder Modules bring the benefits of Raymarine's award-winning HD Digital™ fish finding technology to the C-Series and E-Series Multifunction displays. Choose the DSM30 with 600 watts of output power or the DSM300 with up to 1000 watts of power.



DSM30 & DSM300 KEY FEATURES

- HD Digital sonar technology delivers superior fish detection and bottom discrimination
- Dual frequency (50/200 kHz) for excellent inshore and offshore performance
- Hands-free HD Digital technology automatically adjusts more than 220 sonar parameters per second and virtually eliminates clutter
- HD Digital adaptive receiver technology precisely targets fish and bottom structure with amazing clarity
- Connects to optional through-hull, transom mount or in-hull transducers

DIGITAL SOUNDER MODULE SPECIFICATIONS

	DSM30 Digital Sounder Module	DSM300 Digital Sounder Module
PHYSICAL		
Overall Dimensions	10.76" x 7.37" x 2.43"	10.76" x 7.37" x 2.43"
Product Weight lbs (kg)	2.2 (1.0)	2.2 (1.0)
POWER		
Nominal Voltage (volts DC)	12v systems	12v and 24v systems
Absolute voltage range (volts DC)	10.8 - 18 volts	10.7-32 volts
Power consumption (typical) watts	18W	30W
ENVIRONMENTAL		
Temperature range	-10°C to +50°C Operating -20°C to +70°C Non-operating	-10°C to +50°C Operating -20°C to +70°C Non-operating
Humidity	Up to 95%	Up to 95%
Waterproofing standard	CFR46 and IPX6	CFR46 and IPX6
KEY FEATURES		
Nominal Power Output (watts RMS)	600 watts	1000 or 600 watts (depends on transducer type)
Frequency	Dual 200 kHz/50 kHz	Dual 200 kHz/50 kHz

DSM ORDERING INFORMATION

PART #	DESCRIPTION
E63074	DSM30 600 Watt Digital Sounder Module
E63069	DSM300 1000 Watt Digital Sounder Module
E66009	Transducer Extension Cable (10ft)
E66010	Transducer Extension Cable (16ft)

TRANSDUCERS

Installing the right transducer is vital to getting the most out of your digital sounder module. Raymarine offers a range of transducers designed for a variety of vessel types and performance requirements. For more information on choosing a transducer please visit www.raymarine.com or talk to your local authorized Raymarine dealer.



TRANSDUCER ORDERING INFORMATION

PART #	BODY STYLE	MATERIAL	FEATURES			PERFORMANCE	MAX POWER	APPLICATIONS		
			DEPTH	SPEED	TEMP			OB POWER	IB POWER	SAIL
Transom Mount Transducers										
E66054	P66	Plastic	•	•	•	Good	600w	•		
E66019	ST69	Plastic		•	•	N/A	N/A	•	•	
In-Hull Transducers										
E66008	P79	Plastic	•			Good	600w	•	•	•
A66089	M260	Urethane	•			Best	1000w	•	•	•
E66076	R199	Urethane	•			Ultimate	2000w	•	•	•
Through-hull Transducers										
E66091	B744V	Bronze	•	•	•	Good	600w	•	•	
E66092	B744VL	Bronze	•	•	•	Good	600w	•	•	
E66013	P319	Plastic	•			Good	600w	•	•	•
E66014	B117	Bronze	•			Good	600w	•	•	•
E66015	S555	Stainless				Good	600w	•	•	•
E66085	B60-20°	Bronze	•	•		Good	600w	•	•	•
E66086	B60-12°	Bronze	•	•		Good	600w	•	•	•
A102112	B164-12°	Bronze	•	•		Better	1000w	•	•	•
A102113	B164-20°	Bronze	•	•		Better	1000w	•	•	•
E66082	B258	Bronze	•	•		Better	1000w			•
E66079	B260	Bronze	•	•		Best	1000w			•
E66080	S5560	Stainless	•	•		Best	1000w			•
E66075	R99	Urethane	•	•		Ultimate	2000w			•
E66071	P120-ST800	Plastic		•	•	N/A	N/A	•	•	•
E66072	B120-ST800	Bronze		•	•	N/A	N/A	•	•	•

RAYSTAR 125 GPS SENSOR

Compact and accurate the Raystar 125 Satellite Differential GPS Receiver provides pinpoint accuracy to Raymarine multifunction displays.



KEY FEATURES:

- SeaTalk or NMEA 0183 compatible
- 12 Channel GPS Receiver
- Built-in LED diagnostic indicator
- SDGPS (WAAS) accuracy to 5 meters or less
- Pole or flush mountable

ORDERING INFORMATION

PART #	DESCRIPTION
E32042	Raystar 125 SDGPS Sensor

For complete Raystar125 specifications please visit us online at www.raymarine.com.

AIS250 AIS RECEIVER MODULE

The Raymarine AIS250 Receiver module is a "listen only" AIS receiver that easily integrates with an existing VHF antenna using a built in VHF splitter. The AIS250 then interfaces to Raymarine multifunction displays, allowing AIS targets to be graphically overlaid in both the chartplotter and radar modes.



KEY FEATURES:

- Improve Collision Avoidance
- Enhance Situational Awareness
- Built-in VHF/FM splitter. No additional VHF antenna required
- Built-in NMEA 0183 multiplexer

ORDERING INFORMATION

PART #	DESCRIPTION
E03015	AIS250 Receiver Module

SEATALK^{hs} NETWORKING COMPONENTS: (E-SERIES ONLY)



ORDERING INFORMATION

PART #	DESCRIPTION
E55060	SeaTalk™ Crossover Coupler
E55058	SeaTalk™ High-Speed Network Switch
E55049	SeaTalk™ Network Cable 1.5m
E55050	SeaTalk™ Network Cable 5m
E55051	SeaTalk™ Network Cable 10m
E55052	SeaTalk™ Network Cable 20m

SMART HEADING SYSTEM

For installations without an onboard autopilot system or existing fast digital compass, the rate gyro equipped Smart Heading system provides accurate high-speed (10 Hz) compass heading information for proper MARPA and radar-chart overlay operation.



ORDERING INFORMATION

PART #	DESCRIPTION
E12102	Smart Heading System

REMOTE KEYBOARDS

Choose the Alphanumeric remote keypad for editing waypoints, names and routes. The Alphanumeric keypad connects using SeaTalk and is compatible with both C-Series and E-Series displays. The SeaTalk2 Full Function Remote Keyboard for E-Series can be combined with a remote Raymarine display or big screen TV for full function E-Series remote control. Includes a flush-mountable dock and can be easily removed it for handheld use.



ORDERING INFORMATION

PART #	DESCRIPTION
E55061	SeaTalk2 Full Function Remote Keyboard
E05010	Keyboard Black Bezel Kit
E05012	Keyboard Trunion Mounting Kit
E05008	Alphanumeric Navigation Keypad

INTERFACING AND VIDEO ACCESSORIES

NMEA 0183 multiplexer, NMEA2000 cable and E-Series video input and output cables



ORDERING INFORMATION

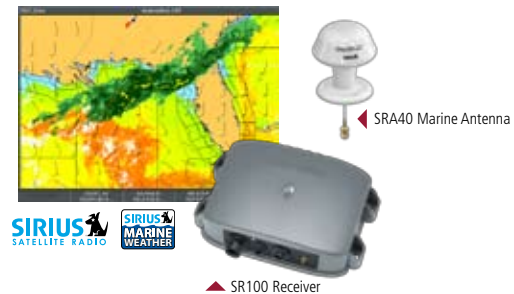
PART #	DESCRIPTION
E55059	NMEA 0183 Multiplexer
E55053	SeaTalk2-NMEA2000 Cable 1.5m
E55062	S-Video input x2 Cable 1.5m for E-Series
E55055	VGA Video Out Cable 10m for E-Series
E55056	VGA Video Out Cable 20m for E-Series
E05026	Device NET Female to Bare Wire Cable
E05027	Device NET Male to Bare Wire Cable

SIRIUS® MARINE WEATHER RECEIVERS

Choose the SR100 SeaTalk[™] network compatible receiver for E-Series networks or the SR50 SeaTalk[™] bus compatible receiver for Raymarine C-Series displays.

SR100 RECEIVER (E-SERIES)

The SR100 enables SIRIUS Marine Weather and satellite radio controls on multiple E-Series displays using the SeaTalk[™] network protocol. Features an audio output port for connection to on board audio systems. The SR100 is fully waterproof and includes a SRA40 marine satellite radio antenna.



SR50 RECEIVER (C-SERIES)

The SR50 enables SIRIUS Marine Weather and satellite radio tuner controls on a single C-Series display. A SeaTalk[™] cable provides plug and play compatibility with a C-Series display. Features an audio output port for connection to on board audio systems. Fully waterproof and includes a SRA40 marine satellite radio antenna.



ORDERING INFORMATION

PART #	DESCRIPTION
E03008	SR100 – SIRIUS Weather and Audio Receiver for E-Series*

* Subscription required

ORDERING INFORMATION

PART #	DESCRIPTION
E03014	SR50 – SIRIUS Weather and Audio Receiver for C-Series*

* Subscription required

CAM50 DOME VIDEO CAMERA

The CAM50 is a compact color dome camera, ideal for interior installations. The unobtrusive design is perfect for mounting in the salon, wheelhouse or engine room.



ORDERING INFORMATION

PART #	DESCRIPTION
E03016	CAM50 (NTSC) Camera for USA and Canada
E03018	CAM50 Reverse Image (NTSC)
E06017	5m camera extension cable
E06018	15m camera extension cable

CAM100 DAY/NIGHT MARINE CAMERA

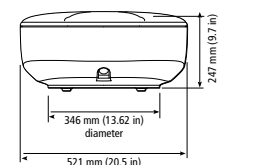
The CAM100 is a day and night vision camera that instantly transforms Raymarine E-Series into a powerful onboard video observation system. Improve docking safety by monitoring blind spots or keep track of the engine room and crew from the helm. Use multiple cameras for a total view of your vessel's surroundings. The camera has a highly sensitive IR sensor to switch from true color to black and white night vision mode.



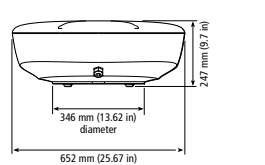
ORDERING INFORMATION

PART #	DESCRIPTION
E03007	CAM100 (NTSC) Camera for USA and Canada
E03021	CAM100 Reverse Image (NTSC)
E06017	5m camera extension cable
E06018	15m camera extension cable

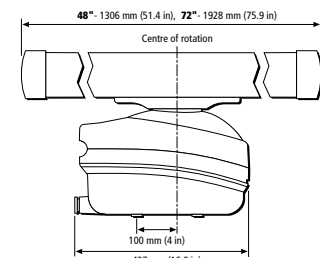
DIMENSIONS



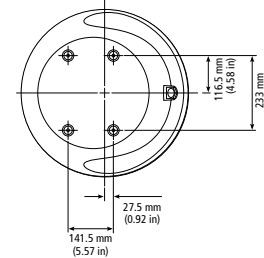
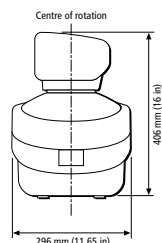
RD218



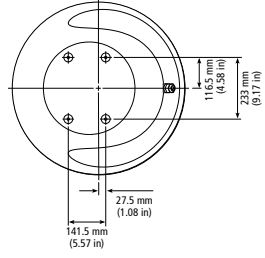
RD424



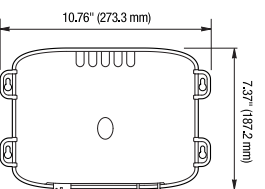
Open Array Antennas



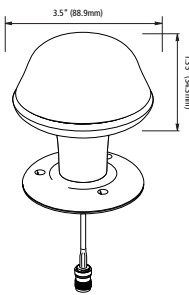
Raystar 125



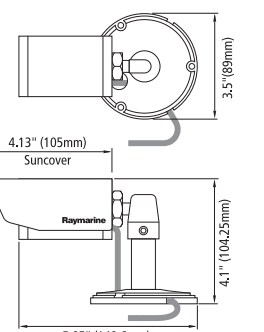
DSM30/DSM300



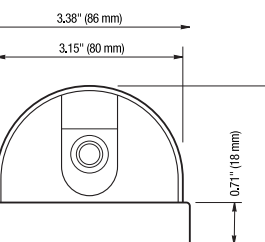
SR50/SR100



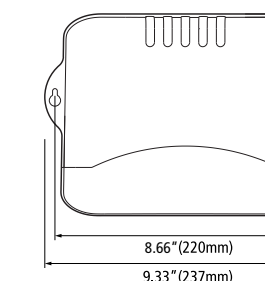
SRA40



CAM100



CAM50



AIS250/Network Switch

Sensor and Accessory Guide

For Raymarine C-Series and E-Series Multifunction Displays

