

Certificate No.

RT044**Raymarine®**

EC Declaration of Conformity

We **Raymarine Limited****Anchorage Park
Portsmouth
Hampshire
England PO35TD**

declare, under our sole responsibility, that the products identified in this declaration, and to which this declaration relates, are in conformity with the essential requirements of European Parliament and Council Directive:

1999/5/EC on radio equipment and telecommunication terminal equipment and the mutual recognition of their conformity.

Product Name:

**Raymarine RAY 54E VHF Radio with Class
"D" DSC**

Product Number(s):

**E43024 (White)
E43025 (Black)**

The products have been assessed to Conformity Procedure Annex IV of the Directive and by application of all or part of the following standard(s):

Non-Harmonised Standards(s):

**EN 60945, EN 301 025-1, EN 300 698-1
IEC 62238**

The satisfactory assessment of the above, allows a presumption of Conformity to the following Harmonised standards:

Harmonised Standard(s):

**EN 301 025-2, EN 300-025-3, EN 300 698-2
EN 300 698-3, EN 301 843-1, EN 301 843-2**

The assessment is consistent with a Technical Construction File showing conformity with the essential requirements of the Directive and has been reviewed by Notified Body No. 0168

The product is labelled with the CE conformity marking, the identification number of the Notified Body and class identifier.

Signatory:

Name
Title
Company Name
Company Address**Adil Abbas
International Compliance Manager
Raymarine Limited
Anchorage Park
Portsmouth, Hampshire
England PO3 5TD**

Signature

Date

May 2004

Appendix A: Specifications

General

Size (H x W x D)	3.11" (79 mm) x 6.57" (167 mm) x 6.73" (171mm)
Weight	2.87 lbs (1.3kg)
Mounting	Bracket or flush mount
Power	13.6 VDC \pm 15%
Environmental: Operating Range: Storage Range: Humidity:	Waterproof to IPX7 -15°C to +55°C -20°C to +70°C up to 95%
Frequency Range: Transmit Receive	156.050 To 162.425 MHz 156.050 To 163.275 MHz
Channels	All available International VHF Marine Bands. US and Canadian channels also available if so programmed.
Oscillate Mode	PLL
Modulation	FM(16K0G3E) DSC(16K0G2B)
Channel Spacing	25 kHz Increments
Frequency Stability	+/- 10PPM (+/- 0.001%)
External Speaker Power	2 watts @ 4 ohms
Internal Speaker Power	1 watt @ 16 ohms
Microphone Impedance	600 ohms
Antenna Impedance	50 ohms

Receiver

Intermediate Frequency:		
1st		21.4 MHz
2nd		455 KHz
Sensitivity		0.25 μ V (12dB SINAD)
Squelch Sensitivity		> 0.7 μ V at tight
Spurious Response Rejection Ratio		70 dB
Adjacent Channel Selectivity		70 dB
Intermodulation Rejection Ratio		68dB
S/N at 3KHz Dev.		40 dB
Audio Output Power At THD 10%		2 W
Audio Distortion		10%
Current Drain at:		
	Max Audio Power	1.5 A
	Stand-By	0.5 A

Transmitter

RF Power:		
Hi Mode		23 \pm 2 W
Lo Mode		0.8 \pm 0.1 W
Maximum Deviation		\pm 5 KHz
S/N at 3KHz Dev		40 dB
Modulation Distortion		3KHz \leq 7%
Audio Response		1KHz EIA STANDARD dB
Spurious/Harmonic Emissions:		0.25 μ W
Modulation Sensitivity		\leq 12mv
Current Drain At 13.6V DC:		
Hi Power		\leq 6 A
Lo Power		\leq 1.5A