

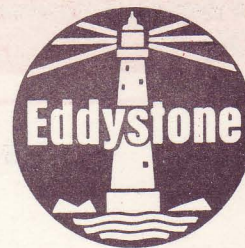
Eddystone Radio Limited

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Solid-State Broadcast Receiver

EB37

General Description The EB37 is the latest variant in a well-established family of compact, solid-state, high-performance receivers which includes the EB35 MK.II and the EC10 Series of professional communication receivers. Primarily intended for cabin use on ships, the EB37 is equally suited to the needs of the enthusiastic land-based listener requiring a higher standard of performance than that of the average domestic receiver.

Full long and medium wave coverage is provided, together with three short wave ranges which cover wavelengths down to 13.6 metres (22MHz). Tuning is by means of a precision gear-drive which incorporates a vernier logging scale.

An internal loudspeaker provides adequate volume for normal listening and outputs are available at the rear for connection to telephones, tape recorders or hi-fi installations. The audio stages can be used independently for microphone, tape or record reproduction.

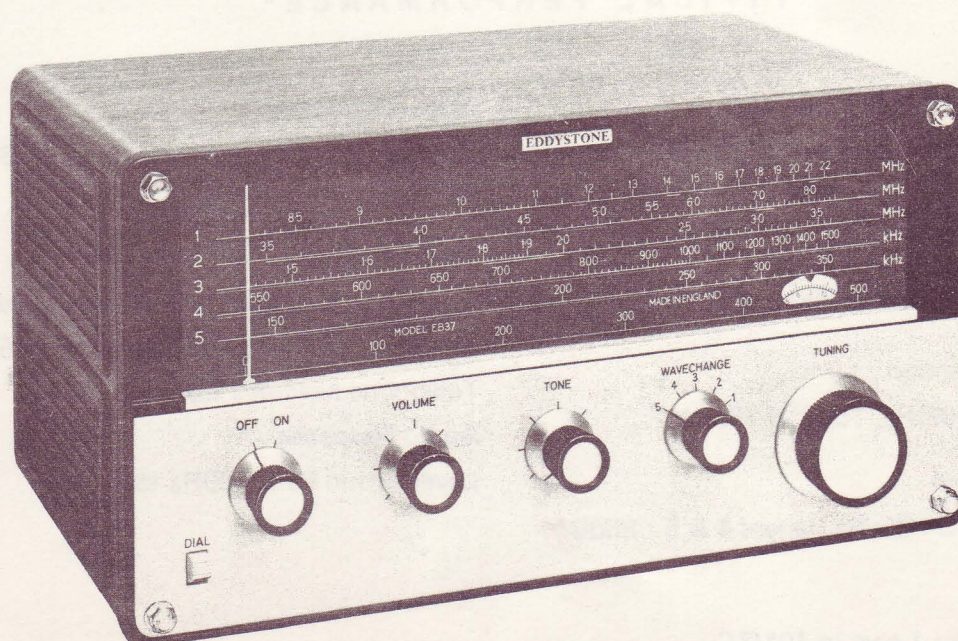
In its normal form the receiver is supplied complete with an internal battery container which accepts six standard U2 or HP2 dry cells. The container can be removed to permit installation of interchangeable accessory units for operation from external 12/24V batteries or standard 40-60Hz AC supplies.

**Long, medium and
shortwave coverage**

**Flywheel-loaded
gear driven tuning**

**Self-contained
battery pack for
portable use**

**Accessory units for
12/24V DC and
standard AC supplies**



GENERAL SPECIFICATION

Frequency Coverage

Range 1	::	8.5—22MHz	(35—13.6m)
Range 2	::	3.5—8.5MHz	(85—35m)
Range 3	::	1.5—3.5MHz	(200—85m)
Range 4	::	550—1500kHz	(545—200m)
Range 5	::	150—350kHz	(2000—850m)

Intermediate Frequency

465kHz

Aerial

The receiver is suitable for use with any normal domestic aerial. Special dipole aerial (Cat. No. 731/1) and a detachable telescopic aerial (Cat. No. 991) are available as accessories.

Input impedance: 75 Ω on Ranges 1—3, 400 Ω on Ranges 4 and 5.

Audio Input Impedance

Of the order 5,000 Ω

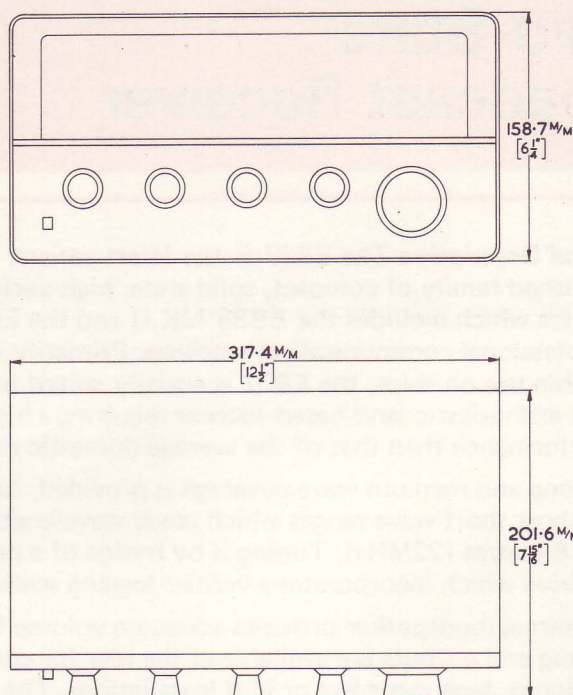
Power Supplies

DC: 9V from 6 x U2 or HP2 dry cells.

12V or 24V from external battery using Voltage Converter Type 945.

AC: 100/125V or 200/250V (40—60Hz) using Power Unit Type 924.

Dimensions



Weight including batteries

6.3kg (14 lb)

TYPICAL PERFORMANCE *

Sensistivity 50mW output

Ranges 1 — 3	::	5 μ V for 15dB S/N
Ranges 4 & 5	::	15 μ V for 15dB S/N

Selectivity

5kHz B/W at -6dB, 25kHz B/W at -40dB

Image Rejection

50dB at 2.0MHz, 15dB at 18MHz

IF Rejection

Ranges 1—3 : 85dB. Ranges 4 & 5 : 65dB

Stability

Of the order 1 part in 10⁴/°C

AGC Characteristic

Less than 12dB change in output for 80dB increase in signal level.

Audio Output

Internal loudspeaker (8—10 Ω) : 750mW

External speaker system (8—10 Ω) : 750mW

Telephone headset : Low/medium-Z

Audio Response

Level within 6dB, 100Hz to 10kHz

(*) Not to be interpreted as a test specification