

Eddystone Radio Limited

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AM/FM Broadcast Receiver

Model
1570
(Provisional)

GENERAL DESCRIPTION

The Eddystone Model 1570 is a fully solid state AM/FM broadcast receiver designed to meet the requirements of the more discerning listener who demands a somewhat superior reception performance to that given by the conventional domestic type of receiver.

The 1570 utilises advanced techniques and components of the type normally found in professional communication receiver equipment. Added features include such facilities as unambiguous digital readout display of the tuned frequency, LED array indicator for the display of the selected range band, wide frequency range coverage of long, medium and three short-wave bands, plus international FM broadcast coverage and an 'S' meter for peaking-in on weak reception signals.

The receiver is compact, lightweight and elegantly styled in the modern trend. The audio stages can be used independently for an auxilliary input source and provision is made to facilitate tape recorder reproduction. Power for the receiver can either be derived from the AC Mains Supply (100-120V and 200-250V 40-60Hz) or from the optional internal rechargeable battery pack. Provision is also made for connection to an external 12V DC supply of negative earthed polarity.



Performance

Frequency Coverage	FM 88 — 108MHz 1 8.5 — 22MHz 2 3.5 — 8.5MHz 3 1.5 — 3.5MHz 4 500 — 1500kHz 5 150 — 350kHz
Sensitivity	FM 5 μ V for 20dB S/N with 22.5kHz deviation AM 3 μ V for 12dB S/N CW 2 μ V for 12dB S/N
Intermediate Frequencies	FM 10.7MHz AM 455kHz
Selectivity	FM 250kHz at - 6dB AM 1. 4kHz at - 6dB; 12kHz at - 40dB 2. 10kHz at - 6dB; 28kHz at - 40dB
Image Rejection	FM 60dB at 90MHz AM 50dB at 2MHz; 25dB at 22MHz
IF Breakthrough	FM 60dB at 90MHz AM 70dB at 2MHz
AGC Performance on AM	Less than 8dB change in output for 80dB increase in input.
AFC	Efficient control range on AM/FM
Audio Output	3 Watts max into 4 Ω ; 1.5 Watts at 1% distortion
Audio Response	Within 6dB 100Hz-15kHz
Temperature Range	0-40 $^{\circ}$ C
Power Supplies	AC supply 100-120V and 200-250V (40-60Hz). Optional internal rechargeable sealed lead-acid battery. External 12V DC supply (negative earth).
Resolution of Digital Display	FM 10kHz AM 1kHz

Other Facilities

Economy circuit for internal battery.	
Tape record output	5 pin standard
Audio input	DIN connector
FM Mute	
Telescopic aerial	For FM use with limited AM use.
Headset	Low/medium impedance

Our equipment is designed generally to meet "British Defence Specification 133 Class L2".

As we are always seeking to improve our products, the information in this document gives only general indications of product capacity, performance and suitability, none of which shall form part of any contract. The information herein is subject to confirmation at the time of ordering.