

“ EDDYSTONE RECEIVERS ARE IN A CLASS OF THEIR OWN ”

Because we advertise chiefly in the technical press, it may well be that you — the reader of this catalogue — are not familiar with Eddystone receivers, which really come into a class of their own. The receivers described herein can equally well be termed semi-domestic and semi-professional. Each model is expressly engineered for the main purpose it is expected to serve; and both the mechanical construction and the electrical performance are greatly superior to the average domestic receiver. These advantages are to be expected anyway, since we are large-scale manufacturers of highly specialised professional receivers and have years of experience on which to draw.

Assuming your need is for long distance reception, much of it necessarily on short waves, you cannot do better than to choose an Eddystone receiver. Naturally, your actual choice will depend on how much you wish to spend — each model is excellent in its way and represents really good value for money. The more expensive the set, the better its specification and the greater the actual performance obtained.

Although you will find the initial cost higher — a first-class article cannot be made to sell at a cheap price — you will have the satisfaction of possessing a receiver which will give years of trouble-free service. As a matter of interest, each and every set is given a most thorough examination before despatch and after-sales service is rarely required — but willingly given when needed.

A large proportion of our production goes to export. We do not differentiate between those sets sold on the home market and those going overseas — all are given the same tropical finish and can be relied upon for high reliability in any climate.

Necessarily, the information provided herein is brief — separate brochures are available giving full details. Should your need not be met by one or other of the receivers mentioned in this catalogue, we invite your enquiries (direct or through our Distributors), since, in our wide range of professional models, covering frequencies from 10 kc/s to 1,000 Mc/s, it is probable there is a receiver to meet your particular application.

MANUFACTURERS:

STRATTON & CO. LTD.
ALVECHURCH ROAD, BIRMINGHAM 31, ENGLAND

Cables: STRATNOID, BIRMINGHAM. Telephone: PRIORY 2231/4

Printed in England

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EDDYSTONE



FOR WORLD-WIDE RECEPTION

RECEIVERS

EDDYSTONE ACCESSORIES

LOUDSPEAKER

Housed in a deep drawn steel case and fitted with a special baffle for improved performance, this makes a useful general purpose unit.



Overall size :

Width $7\frac{5}{16}$ " ; Depth $3\frac{7}{16}$ " ; Height $6\frac{5}{16}$ ".

Cat. No. 899 Oyster hammer finish ... £2 17s. 6d.

Cat. No. 899/F Two-tone grey finish ... £2 17s. 6d.

TELEPHONE HEADSETS

Ericsson's high resistance telephones, of high sensitivity and suitable for use with Eddystone and other receivers. 4,000 ohms. Complete with plug.

LP1979 ... £4 2s. 6d. pair

DOUBLET AERIAL

The Eddystone Doublet Aerial gives improved results compared with a single wire type of aerial and is particularly efficient on short waves. The two arms forming the aerial proper can be strung in any convenient position (as high as possible) and the flexible insulated twin-feeder brought in through any convenient aperture without the necessity of additional insulation. Pick-up of electrical interference is minimised with a consequent reduction in background noise. Supplied complete and ready for immediate installation.

Cat. No. 731/1 (100 ft. feeder cable) ... £3 3s. 3d.

EDDYSTONE ACCESSORIES

DUAL JACK UNIT

This unit is designed to permit two operators to listen simultaneously on telephones to the signals from a receiver. Two jacks are housed in a small diecast box, dark polychromatic wrinkle finish. A length of flexible lead terminates in a standard type of telephone plug for connection to the receiver.



Cat. No. 879 ... £1 6s. 8d.

BATTERY POWER UNITS

Designed to permit operation of a receiver from a 6 volt accumulator, where the HT current required does not exceed 65mA. The unit comprises transformer, vibrator, rectifier valve (6X5G), RF filters, and on/off switch, all enclosed in a small metal cabinet, finished ripple black. A heavy cable is provided for connection to the battery. Smoothing is not included, since the appropriate components in the receiver continue to fulfil this function.

Two types are available. One, Cat. No. 687, is for unbalanced heaters (one side earthed), examples being Eddystone models "640" and "740." The other — Cat. No. 687/1 — is for sets with balanced heaters, such as the "750," "888" and "888A." Consumption between 5 and 7 amperes dependent on model and load.

Cat. No. 687 ... £13 5s. 0d.

Cat. No. 687/1 ... £13 16s. 6d.

INFORMATION CONCERNING EDDYSTONE RECEIVERS

In this folder are given details of popular current models. The performance of each has, by careful design and development, been brought to the highest possible level and you will find nothing to equal these receivers at anywhere near their price levels. Until you have had the opportunity of actually seeing and testing an Eddystone receiver, you cannot fully appreciate its merits, in appearance, construction and ease of operation.

There are a number of features common to each model. The tuning knob drives a geared mechanism, which in itself is a fine piece of work. The flywheel loading gives smooth control and the high reduction ratio simplifies accurate tuning. An auxiliary scale, with a further reduction, provides adequate bandwidth.

Modern types of valves, especially selected for optimum performance, are used throughout. The signal frequency and oscillator coils are fitted with variable powdered-iron cores and air trimmers, whilst the I.F. transformers and B.F.O. units also have dust-iron cores. Screening and decoupling are thorough and stability is of a high order.

The aerial input impedance is 70 ohms or 400 ohms but good results are secured with almost any type of aerial. Either a single wire unbalanced aerial or twin balanced feeders may be connected.

Each receiver is guaranteed for twelve months and is provided with a comprehensive instruction manual.

COMMUNICATIONS MODELS.—Terminals are provided for a 2.5 ohm speaker, the Eddystone Cat. No. 899 being recommended. A jack on the panel takes high resistance telephones. The B.F.O. pitch control gives a variation of plus or minus three kilocycles. The noise limiter is effective against ignition and similar kinds of interference, whilst the standby switch mutes the receiver when desired.



THE EDDYSTONE "940" RECEIVER

An extremely sensitive receiver with a fine overall specification. Features to note are the two RF stages (one of the cascade low-noise type), two IF stages, variable selectivity, crystal filter, push-pull output, carrier level meter and stabilised oscillator supply. Intended for the professional operator and for those needing a communications receiver of exceptional performance.

FREQUENCY RANGES

| | | | |
|--------|------------------------|--------|------------------------|
| Band 1 | 12.7 Mc/s to 30 Mc/s. | Band 4 | 1.03 Mc/s to 2.4 Mc/s. |
| Band 2 | 5.4 Mc/s to 12.7 Mc/s. | Band 5 | 480 kc/s to 1030 kc/s. |
| Band 3 | 2.4 Mc/s to 5.4 Mc/s. | | |

CIRCUIT AND VALVES

Two RF stages (ECCT89 and 6BA6); mixer (6AJ8); separate oscillator (6C4); two IF stages (6BA6); AM detector and AGC (AL5); CW/SSB detector (6BE6); audio amplifier (12AU7); push-pull output (6AM5); rectifier (GZ34); stabiliser (VR150); noise limiter (silicon diode).

ELECTRICAL PERFORMANCE.—Sensitivity for 50 milliwatts output, 15dB signal noise ratio, 3 microvolts.

SELECTIVITY.—(6dB bandwidths). Minimum 10 kc/s; maximum 4 kc/s; with crystal filter 400 c/s.

IMAGE REJECTION.—40dB at 20 Mc/s; 90dB at 1 Mc/s.

AUDIO OUTPUT.—1 watt at low distortion. Response level within 3dB up to 8,000 c/s. Connections for 2.5 ohm speaker and 600 ohm line. Telephone jack on front panel.

POWER INPUT.—AC only 110 and 200/240 volts 40/60 cycles. Consumption approximately 80 watts.

FINISH.—Two-tone grey with modern styling.

DIMENSIONS.—Width 16 $\frac{3}{4}$ inches; depth 15 inches; height 8 $\frac{3}{4}$ inches; weight 43 lbs.

LIST PRICE IN U.K.: £125 0s. 0d.



THE EDDYSTONE "840C" RECEIVER

The "840C" is an eight valve single conversion superheterodyne receiver with modern presentation and styling. It is designed on sound engineering principles to meet the demand for a communications receiver of high performance at a moderate price. An internal monitor speaker and tuning indicator are fitted.

FREQUENCY RANGE.

Range 1 ... 12.4 Mc/s. to 30 Mc/s.
 Range 2 ... 5.2 Mc/s. to 12.9 Mc/s.
 Range 3 ... 2.5 Mc/s. to 6.1 Mc/s.
 Range 4 ... 1.12 Mc/s. to 2.58 Mc/s.
 Range 5 ... 480 kc/s. to 1150 kc/s. (includes the International Distress Frequency).

VALVE LINE-UP.

| | | | | | |
|------------------------------|-----|-----|-----|-----|----|
| R.F. Amplifier | ... | ... | ... | ... | V1 |
| Frequency-changer | ... | ... | ... | ... | V2 |
| L.F. Amplifier and A.G.C. | ... | ... | ... | ... | V3 |
| Tuning Indicator | ... | ... | ... | ... | V4 |
| Detector and Audio Amplifier | ... | ... | ... | ... | V5 |
| Beat Frequency Oscillator | ... | ... | ... | ... | V6 |
| Audio Output | ... | ... | ... | ... | V7 |
| HT Rectifier | ... | ... | ... | ... | V8 |

ELECTRICAL PERFORMANCE.—Sensitivity for 50 milliwatts, 15 dB signal/noise ratio, better than 10 microvolts on all ranges.

SELECTIVITY.—30 dB down 10 kc/s. off resonance. Image ratio: better than 15 dB at 30 Mc/s. and greater at lower frequencies.

AUTOMATIC GAIN CONTROL.—Less than 15 dB change of output for 80 dB change of input, above 10 uV.

AUDIO OUTPUT.—Undistorted 0.75 watts, maximum 1.2 watts.

POWER SUPPLY.—AC/DC 100/115 and 200/250 volts.

Consumption approximately 0.28 amperes.

FINISH.—Two-tone grey. Weight 28 lbs.; Width 16 $\frac{1}{2}$ " ; Depth 11" ; Height 8 $\frac{7}{8}$ ".

LIST PRICE IN U.K. : £58 0s. 0d.



THE EDDYSTONE "870A" RECEIVER

A compact, light-weight receiver, of the AC/DC type, equally suitable for use at home or in a ship's cabin. Although relatively inexpensive, the "870A" is capable of a good performance and, as with other Eddystone models, is designed for use in any climate.

FREQUENCY COVERAGE.

| | | | | |
|--------|-----|-----|-------------------------|-------------------------|
| Band 1 | ... | ... | 24 Mc/s. to 7.5 Mc/s. | (12.5 to 40 metres) |
| Band 2 | ... | ... | 7.5 Mc/s. to 3.2 Mc/s. | (40 to 93.9 metres) |
| Band 3 | ... | ... | 3.5 Mc/s. to 1.3 Mc/s. | (85.7 to 230.7 metres) |
| Band 4 | ... | ... | 1400 kc/s. to 510 kc/s. | (214.3 to 588.2 metres) |
| Band 5 | ... | ... | 380 kc/s. to 150 kc/s. | (789.4 to 2,000 metres) |

CIRCUIT.—Five valve superheterodyne, using modern International type valves, readily obtainable anywhere. Highest grade components throughout.

POWER SUPPLY.—Operates equally well from AC or DC mains, 100/120 and 200/250 volts. Consumption 0.2 amperes.

SPECIAL FEATURES.—Gearing drive flywheel controlled system leads to precise tuning, aided by the wide, clear scales. Vernier logging scale is incorporated. There is a built-in mains filter, to reduce electrical interference, and the choke smoothing ensures low back-ground noise and absence of hum. Thoroughly insulated to allow metal cabinet to be directly earthed. Adequate volume and good tonal quality. Internal speaker is fitted. Pick-up terminals are provided.

PHYSICAL DETAILS.—The metal cabinet is finished in a pleasing two-tone style, with choice of colour schemes, offset with chromium handles. Width 11" ; depth 8 $\frac{3}{8}$ " ; height 6 $\frac{3}{8}$ " ; weight 11 $\frac{1}{2}$ lbs.

LIST PRICE IN U.K. : £30 17s. 6d. (Including Purchase Tax)
 £34 . 8 . 9