

**EDDYSTONE**

## AN INTRODUCTION TO EDDYSTONE RECEIVERS

Are you interested mainly in quality . . . . . or only in price?

You will be acquainted with ordinary domestic receivers, many of which are mass produced and pared down to meet intense competition, with the result that often workmanship, quality and reliability leave much to be desired, even where performance may apparently be satisfactory.

We do not compete in this field—our name is synonymous with quality. EDDYSTONE products are very well known in the professional field of radio and electronics industry where, without question, they are held in very high repute.

Shortwave reception can be at its most interesting if you have the correct radio receiver and the purpose of this leaflet is to bring to your attention the fact that you can, if you wish, purchase an "EDDYSTONE" receiver of outstanding merit.

EDDYSTONE products are renowned for their electrical and mechanical design, carried out by a team, each member of which is an expert in his own field. Years of experience and the use of the most modern test equipment result in the production of professional communications equipment of an extremely high standard. These receivers are built from high quality components and materials and tested in all stages of manufacture to the best possible standards to produce items for use, often in the most arduous conditions anywhere in the world.

You will notice that the majority of our receivers are of the "communications" type and may query the difference between this and a standard receiver. This may be answered briefly by stating that a communications receiver has higher sensitivity, better selectivity (being the ability to separate stations operating on adjacent wavelengths) and provision for accepting Morse code and other signals, as well as speech and music.

The salient features of each model are given herein using non-technical terms. Separate brochures are available on request and in them will be found complete technical details.

MANUFACTURERS:

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An illustration of a radio tower with a globe in the foreground. A banner wrapped around the globe reads "FOR WORLD-WIDE RECEPTION". The background features concentric circles and lightning bolts, suggesting radio waves and global communication.

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**RECEIVERS**

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### **"EC10" TRANSISTORISED COMMUNICATIONS RECEIVER**

A most efficient transistorised communications receiver of light weight, compact dimensions and capable of a really good performance. Five ranges give continuous coverage from 550 kc/s to 30 Mc/s (545 to 10 metres), and included are the medium wave broadcast band, the marine (coastal) band from 1500 to 3000 kc/s, and all the short-wave broadcast bands. Also available are the six major amateur bands and many services in between.

The "EC10" receiver accepts normal AM telephony and CW telegraphy, a special filter being provided to increase selectivity (and also reduce noise) in the CW mode, as is often desirable. Single sideband signals can be successfully resolved by appropriate setting of the BFO for carrier re-insertion. A total of 13 transistors and diodes is used, leading to high sensitivity and consistent results on all ranges.

The main scales occupy a length of nine inches and are clearly calibrated direct in frequency. The standard Eddystone precision slow-motion drive controls the tuning, and is exceptionally smooth and light to handle. An auxiliary logging scale permits dial settings of chosen stations to be recorded.

An internal speaker gives good aural quality and a comparatively high audio output is available — one can easily believe the set is mains operated. For personal listening, a telephone headset can be plugged in to the socket on the front panel, the speaker then being out of action.

Alternative aerial sockets are provided, for dipole, long wire or short rod or wire. Power is derived from six cells housed in a separate detachable compartment. Current consumption is related to audio output and, for long life, HP2 type heavy duty cells are recommended. The standard receiver can readily be converted to AC mains operation by the addition of a small mains power unit, of dimensions identical to those of the battery box.

The receiver is housed in a metal cabinet, and, with robust construction throughout, it will stand up to hard usage over a long period with a high degree of reliability. The finish is an attractive two-tone grey. The dimensions are width 12½"; height 6¾", depth 8"; Weight with batteries is 14 lbs.

**LIST PRICE (in U.K.) : £48 0s. 0d.**  
**Cat. No. 924 AC Mains Unit £5 0s. 0d.**

EDDYSTONE



### **EDDYSTONE "840C" COMMUNICATIONS RECEIVER**

The "840C" is an eight valve communications receiver with modern presentation and styling. It is a straightforward superheterodyne designed on sound engineering principles to meet the demand for a wide range receiver of good performance at a moderate price. The coverage is complete from the low end of the medium wave broadcast band (ex-marine operators will note with interest the 600 metre shipping band is included), through what is known as the "trawler" band, used largely by coastal vessels of all types, and on into the short wave ranges, up to the limit of 30 Mc/s (10 metres) normally used for long distance communications. The sensitivity is maintained at a high level throughout and, provided a reasonably good aerial is used, and dependent upon conditions, transmissions from all continents can at times be received.

The "840C" is used to a considerable extent on board ship and many receivers are exported. To allow for differing mains supplies, the set is made to operate off both AC and DC mains, but one should not confuse this with the old type of AC/DC receiver. The interior parts are very well insulated from the outer metal cabinet, which can be directly earthed, and special filter units are permanently in circuit to prevent mains-borne noise affecting the operation of the receiver.

An internal speaker is fitted but some will prefer to use a large external speaker, and this can easily be connected to sockets at the rear. A telephone headset can be plugged into the jack on the front panel. Refinements include a tuning indicator, separate control of RF gain, and a tone control.

**LIST PRICE (in U.K.) : £66 0s. 0d.**

## EDDYSTONE



### EDDYSTONE "940" COMMUNICATIONS RECEIVER

The "940" receiver is the "senior member" of the group of general purpose Eddystone receivers and is in fact used by many authorities for professional communications. It possesses an exceptionally good specification and many refinements are included, of a type which cannot be fitted to a receiver in a lower price bracket for economic reasons.

Examples are the use of two radio frequency amplifiers (one of a special low-noise type), and two intermediate frequency amplifiers. These increase the sensitivity very considerably, compared to receivers having only single stages, but another advantage is that anti-fading properties are much improved. Selectivity is variable, which means that when interference is severe, an adjustment can be made to increase the separation between stations. Push-pull output is provided, and, using a suitable type of speaker, excellent quality of reproduction results. For personal listening, a telephone headset can be plugged in.

Provided a reasonably good aerial is used (a signal must be available at the aerial terminals before the receiver can deal with it), it is extraordinary how much of interest can be derived from the "940" receiver. The set covers medium waves and short waves, right through to 30 Mc/s (10 metres). Over this wide range, there are many strong transmissions which can be clearly resolved but weak transmissions also, from low power transmitters thousands of miles away, can often be heard, by appropriate choice of time and frequency. Amateur transmissions come into this category and the "940" copes well with the special type of transmission known as "single-sideband".

All-in-all, the "940" is the right choice for the real enthusiast, who wishes to be sure everything that can be received is received.

LIST PRICE (in U.K.) : £133 0s. 0d.

## EDDYSTONE



### "EA12" AMATEUR BAND COMMUNICATIONS RECEIVER

Specifically for the enthusiastic amateur operator and specially designed to give an outstanding performance over the six major amateur bands (general coverage is not included). Modern in every way and possesses full facilities for coping with all signal modes under present-day conditions. Clear and easy reception of sideband signals is a strong point (upper or lower sideband switch selected) but the continuing need for maximum intelligibility with AM and CW has been borne in mind and the "EA12" excels in these modes also. In fact, whether the individual interest is short or long distance work, Top Band or Ten metres, telephony (AM and/or SSB), or 'winkling out' weak DX on CW, the "EA12" can be relied on to make the most of the wanted signal. And all the facilities are there also to the VHF operator when a converter is used in front of the "EA12".

Extremely high frequency stability is an absolute necessity in an amateur band receiver. The system employed in the "EA12" is to crystal control the first oscillator and pay special attention to the characteristics of the second oscillator, which is tuned with the first intermediate frequency circuits. Other advantages of this method are the high degree of frequency resolution and the constant degree of bandspread. In the "EA12" tuning is carried out over wide, clear scales, each covering 600 kc/s.

The second IF is 100 kc/s, which frequency lends itself well to the attainment of the correct selectivity characteristics dictated by the various modes of signal.

It is not possible here to give details of all the refinements included in the specification of the "EA12", but examples are:—

Aerial input and mains input filters	Crystal calibrator for "spot-on" accuracy
Large panel-mounted "S" Meter	Slot filter to remove interfering beat notes
Adjustable "stand-by" muting	Product and diode detectors
Crystal and audio filters	Independent RF, IF and AF gain controls
Noise limiter effective all signal modes	Internal speaker

Operation is from standard AC mains supplies. Two-tone grey finish, with modern styling.

LIST PRICE (in U.K.) : £185 0s. 0d.

## EDDYSTONE



### EDDYSTONE "EB35" BROADCAST RECEIVER

The "EB35" receiver is a fully transistorised broadcast model, designed essentially to give excellent reception of broadcast stations over a very wide range of frequencies, and thus serve the interests of most classes of listener with the one set. Of compact dimensions and with a self-contained power supply, the "EB35" is versatile in a number of directions. Frequency coverage is one—the long wave band; the medium wave band; the majority of the short wave bands; and the international VHF/FM range of 88 to 108 Mc/s. A high performance obtains throughout and long distance reception is possible with good aerials under suitable conditions.

A socket is provided from which the signal can be fed to a high fidelity amplifier and the receiver can thus be used as a tuner unit, with the advantage of having a large number of stations from which to choose. The same socket serves when it is desired to make a tape recording. A second socket allows the receiver to be used as an amplifier with a record player. In many cases, the internal speaker suffices but a large external speaker is easily connected. For personal listening, a panel jack is provided to take low impedance telephones.

The "EB35" receiver is perfectly suitable as the main domestic receiver in a household and can be pressed into service as a portable receiver when the need arises.

The flywheel-loaded tuning knob controls a finely engineered high ratio geared drive, resulting in smooth precise tuning. The main scales, nine inches long, are clearly marked in frequency, whilst the provision of a logging scale permits preferred station settings to be recorded.

Power is normally derived from U2 cells housed in a detachable compartment. An alternative unit (Cat. No. 924), operating directly from AC mains, is available separately and is readily interchangeable with the battery unit.

The "EB35" is attractively finished in a combination of dark green and beige. With its robust construction, the receiver will stand up to hard usage over a long period with a high degree of reliability.

**LIST PRICE (in U.K.): £60 6s. 3d. (Including Purchase Tax)**

## EDDYSTONE



### EDDYSTONE "EB36" BROADCAST RECEIVER

The "EB36" is a fully transistorised broadcast model, light, compact, easily transportable and engineered to give the best possible performance. It is a versatile receiver giving coverage of the long, medium and shortwave bands including the marine frequencies used by coastal vessels.

The versatility of the "EB35" extends further than the wide range of frequencies covered. An output is provided from which a signal can be fed to a high fidelity amplifier whilst the receiver can be used as the tuner to such a system, whilst still retaining its advantage of wide frequency coverage. Provision is also made for using the "EB36" with a tape-recorder or as an amplifier for use with a record player.

Adequate volume and good tonal quality are provided by the internal speaker, but a large external speaker can easily be connected if required. For personal listening a jack on the front panel permits the use of low impedance headphones.

Other features include the Eddystone precision gear-driven flywheel loaded tuning drive; directly calibrated horizontal tuning scales, whilst the provision of a logging scale permits preferred station settings to be recorded. The use of high quality components and robust construction means that the receiver can be relied upon to give long service at home, abroad, or on board ship in any part of the world.

Power is derived from U2 type cells housed in a detachable compartment. As the "EB36" is quite suitable as a main domestic receiver, an alternative power supply unit (Cat. No. 924) operating directly from A.C. mains is available if required and is readily interchangeable with the battery unit. A further power supply unit (Cat. No. 945) operating from 12/24 volt DC positive earthed supply is also available for use when mobile operation in small boats, or car, is envisaged.

The "EB36" is housed in a metal cabinet and is attractively finished in a combination of maroon and beige.

Weight (less battery) is 12½ lb. (5.7 kg), with battery 13½ lb. (6.2 kg). Size: Height 6½" (16.2 cm), Width 12½" (31.7 cm), Depth 8" (20.3 cm).

**LIST PRICE (in U.K.): £54 5s. 7d. (including Purchase Tax)**