

SEAFARERS EVERYWHERE ACCLAIM THE EDDYSTONE MARINE RECEIVER



FOR PERSONAL CABIN USE

PROOF of the efficiency with which the Eddystone "670" Marine Receiver fulfils the Seafarer's particular requirements for a radio receiver is amply demonstrated by the many congratulatory letters which are reaching us from users who have installed this set on board ship. The following are typical examples:—

S.J.G. "The '670' receiver I have had now for five years is fully to my satisfaction and I have had more than its money's worth of pleasure out of it. I am in Anglo-saxon-Dutch section and many of my friends have bought Eddystones lately in Hong Kong and Singapore."

K.W.N. "I have used one of your Eddystone '670' receivers for eighteen months and have been very pleased indeed with the results obtained in the Near East and Mediterranean Sea. Among my colleagues the '670' is a very popular ship's receiver and we are all very satisfied with its good performance in all areas."

H.J.M.A.W. "At the same time I want to let you know once again how content I am with your Eddystone, and even after having the set now for nearly three years, I am still as happy with it as the first day it was in my possession."

A.B. "I am pleased to say that my Eddystone '670' receiver has been giving yeoman service!"

W.H.B. "I may state I am very pleased with the results being obtained from my Eddystone '670' receiver. I have owned many sets and now at last I am satisfied with the performance given by this wonderful receiver."

H.J.S. "For nearly two years I have been the proud owner of one of your Marine receivers. It has given me sterling service all over the world and has provided me with many hours of listening pleasure."

F.A.W. "With my Eddystone '670' receiver I can receive the B.B.C. Overseas Programmes almost at any time. The volume is good and the tone excellent."

G.S.H. (U.S.A.). "I had the pleasure of listening recently to one of your '670' Marine receivers and must say the performance is an excellent recommendation of your products."

D.S. "Your products are held in high esteem by many of my radio officer acquaintances."

J.C. "About six months ago I bought one of your Eddystone Marine receivers from _____. Now I am writing a short note to let you know what I think of your set, as radio is my hobby. Well, in the first place, there is no radio set on this ship that has a look in on this one for range. I think it is the best on the radio market to-day and is money well spent. I am very proud of my receiver."

R.T. "I am a user of one of your Eddystone Marine Receivers Model '670' and have recently acquired a record player for use with the set. As far as I can remember the receiver was bought late 1948 and I might mention that it has given extremely satisfactory service."

J.K. "I would like to say that this receiver has given me wonderful service in all parts of the world and I wish I had bought one earlier."

K.Y. "Three years ago I purchased an Eddystone Marine receiver. It has provided me with excellent reception and I have had no trouble of any kind."

S.S. _____ "I bought your Eddystone Marine Receiver '670' from your local Agents and have had perfect results all the way up the coast to Korea. I have owned upwards of 20 radios out here in the last twenty years and yours is definitely the best. Passengers during this last voyage were amazed at its performance."

S.S. _____ "The '670' receiver has been working very satisfactorily and is a really wonderful set in my opinion. On board ship with the mains suppressor there is no interference whatsoever and the tone is indeed grand."

M.V. NEAERA. "I have had excellent results from my '670' receiver. Since joining this ship I have had perfect results and the radio far surpasses any I have heard at sea before, including a very expensive _____ and similar sets."



manufactured
by

STRATTON & CO LTD
EDDYSTONE WORKS · BIRMINGHAM · ENGLAND
CABLES: STRATNOID BIRMINGHAM

FACTS CONCERNING THE

EDDYSTONE

A personal radio receiver for use at sea must necessarily differ from a domestic receiver if the special requirements of the Seafarer are to be met. For long periods the ship may be outside the range of medium-wave broadcast stations, in which case satisfactory reception can be obtained only from short-wave transmitters. Therefore, to obtain programmes with real entertainment value, at almost any time and place, consistently reliable short-wave reception must be an essential feature of a seaborne receiver.

The electric supply may vary when changing ships, and occasionally, the receiver may be wanted for use ashore. A truly Marine receiver must therefore be designed to operate off either DC or AC mains of various voltages, with the minimum of adjustment.

Normally, the loudspeaker built into the receiver will be used but, on occasions (e.g., when it is desired not to disturb sleeping personnel) headphones or a pillow speaker can easily be plugged in, the internal speaker being automatically silenced.

Cabin space is restricted and it will be desirable to have a receiver which is compact and self-contained. Robust construction and full tropicalisation are other qualities called for.

The Eddystone "670" Receiver is specifically designed for Marine use. It meets all the requirements outlined above and is unquestionably the ideal receiver for those who "go down to the sea in ships."

The name Eddystone is world famous for performance and reliability and the "670" Receiver upholds that tradition to the full.

FREQUENCY COVERAGE

Four switch operated coil ranges cover the principal short and medium wave broadcast bands. The exact coverage is :—

Band 1 ...	30-12.8 megacycles (10-23.5 metres).	Band 3 ...	2.75-1.2 megacycles (110-250 metres).
" 2 ...	13-5.8 " (23.1-51.7 metres).	" 4 ...	1220-522 kilocycles (246-575 metres).

CIRCUIT AND VALVES

A seven valve (plus selenium rectifier) superheterodyne circuit is employed, with modern miniature valves, which have been specially selected to give optimum performance. The R.F. stage ensures results well above the average and is particularly beneficial when long distance reception is called for or when only a short aerial can be used.

The push-pull output stage, in conjunction with negative feedback and a high efficiency speaker, gives adequate volume and excellent quality. The speaker connections are so arranged that it is an easy matter to use an external speaker or headphones. Sockets are provided for the connection of a gramophone pick-up. All necessary plugs are included.

TUNING MECHANISM

A gear-driven, flywheel-loaded mechanism, having a reduction ratio of approximately 140 to 1, controls the tuning which is smooth, positive and free from back-lash. In the top right-hand opening of the dial is an auxiliary bandspread scale which expands each range to the equivalent of ninety inches. It is thus possible to re-set the tuning quickly to any station previously logged.

SAFETY PRECAUTIONS

The mains leads and all plugs and sockets are completely insulated. Particular attention has been given throughout to insulation, and the metal cabinet may be directly earthed. All components are of the tropical grade, so necessary in a set of this kind which is almost sure to be used in every conceivable variety of climate and weather.



The EDDYSTONE "670" MARIN

EDDYSTONE "670" MARINE RECEIVER

POWER SUPPLIES

The "670" Receiver can be operated off mains having voltages within 10% of 110, 200 or 230 volts. In actual fact, good results can be secured when the mains voltage is down to 90 volts or even less. It is immaterial whether the mains are AC or DC. On AC supplies, power rectification is by a selenium rectifier. A device known as a "Thermistor" prevents high initial surges when switching on, and the dial lamp lights up gradually, without any tendency to burn out.

GENERAL CONSTRUCTION

The aluminium diecastings which are used for the front panel and tuner unit chassis form an extremely rigid foundation for the receiver as a whole. The sub-chassis are made of heavy gauge brass or steel, finished to prevent corrosion and securely attached to the main castings. The cover is steel, thoroughly rust-proofed and stove enamelled a dark ripple brown of pleasing appearance and possessing extreme durability. Chromium plated handles are fitted to the front panel and serve both for protection and for carrying the receiver.

Should it be necessary to obtain access to the interior, the receiver chassis can be readily detached from the cabinet by simply removing four large screws at the rear.

PERFORMANCE

The performance is first class in all ways. Special attention has been paid to the sensitivity, selectivity, image ratio and other technical characteristics, to ensure the finest possible results.

MINIMUM INTERFERENCE

The metal cabinet, in conjunction with the internal screening, has two distinct advantages. Direct pick-up of electrical interference is eliminated and there is no interaction between the "670" Receiver and other receivers that may be in use in the ship.

With the use of the Eddystone Filter Unit, mains-borne interference from electrical machinery is reduced to a minimum, whilst still better results are obtainable when the Eddystone Doublet Aerial is used. The aerial terminals are arranged to take either a doublet or a single wire aerial.

CONTROLS

The controls comprise :—

- Tuning Knob
- Band Selector Knob
- Volume Control
- Combined Tone Control and On/Off Switch

WEIGHT AND DIMENSIONS

- Weight : 32 lbs. unpacked
- Overall length, $16\frac{3}{4}$ inches : depth, 10 inches
- Height, $8\frac{3}{4}$ inches

Comprehensive Instructions and a 12 months Guarantee are provided with each receiver.

E RECEIVER - a 1 in every respect!

The following is an extract from a technical review of the "670" Marine Receiver which appeared in the "Wireless World":

"We were able to give the set a brief test and knowing the conditions under which the receiver would normally be used, the test was made in fairly close proximity to a considerable amount of electrical machinery and with a mediocre aerial. The performance was very satisfactory - the A.G.C. system works particularly well and the mains filter was found to be definitely worth having in this location. Adjacent channel selectivity is very good and the wave-length and frequency calibrations are extremely accurate."

EDDYSTONE MAINS FILTER UNIT

Due to sparking at the commutator, electrical machinery is liable to cause interference to wireless reception. This trouble is often prevalent on board ship, where the dynamo itself may be a primary cause, with possible aggravation when fans, etc., are brought into use. Such interference can be very considerably reduced, if not entirely eliminated, by fitting a suitable filter unit. The Eddystone Mains Filter Unit has been designed specifically for this purpose and will be found most efficient. It takes the form of a small metal box, finished ripple brown to match the "670" Receiver, and is supplied with the necessary mains plug and socket. The unit is inserted between the mains supply and the receiver and takes but a few minutes to fit.

Cat. No. 732

EDDYSTONE DOUBLET AERIAL

On board ship the lead-in portion of a single wire aerial must necessarily be brought close to metal work and attention paid to the provision of adequate insulation. The Eddystone Doublet Aerial is a distinct improvement upon the single wire type. The two arms forming the aerial proper can be strung in any convenient position (as high as possible) and the flexible insulated feeder brought in through a small hole without the necessity of additional insulation. Pick-up of electrical interference is minimised with a consequent reduction in background noise. The aerial may be taken down and re-erected many times with little possibility of damage.

Cat. No. 731

(with 50' feeder)

Cat. No. 731/1

(with 100' feeder)



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