

The "COMMANDER"

Double Superhet Communications Receiver



Radiovision (Leicester) Ltd. with pride and pleasure presents this fine entirely new Communications Receiver of greatly advanced design. Our designers, realising the ever increasing congestion on the communication frequencies both commercial and amateur, have produced this Receiver bearing in mind that extreme selectivity and stability coupled with good sensitivity were the most desirable features.

By using Double Conversion with a high first I.F. followed by a low second I.F. both second channel and adjacent channel selectivity have been improved.

The "COMMANDER" has all these desirable features and many more, including separate electrical bandsread on the amateur bands, direct reading full vision dial accurately calibrated in frequency, general coverage or bandsread by the flick of a switch.

We believe the "COMMANDER" will set an entirely new standard in Communication Receivers and is the logical solution to many present day communication problems.

FEATURES:

- Complete coverage 1.7 to 31 megacycles.
- Separate Electrical Bandsread on the 3.5, 7, 14, 21 and 28 mcs. amateur bands.
- Real "Q Fiver" Selectivity.
- Full vision illuminated direct reading dial calibrated in frequency.
- Precision 50/1 ratio slow motion drive.
- Series noise limiter with adjustable clipping level.
- Provision on Bandsread for calibration against external frequency standard.
- Adjustable Aerial Trimmer.
- Lock-in Valves for all R.F. stages.

CONTROLS:

Main Tuning.
Aerial Trimmer.
Oscillator Trimmer.
Audio Gain. Mains ON/OFF.
R.F. Gain.
Bandswitch.

Bandsread/General Coverage Switch.
Selectivity Switch.
Noise Limiter.
Standby/Receive Switch.
CW/Phone Switch.
B.F.O. Pitch Control.

TECHNICAL SPECIFICATION

FREQUENCY COVERAGE

Band		Bandsread
1	1.7 to 4 Mcs.	3.5 to 3.8 Mcs.
2	4 „ 7.6 Mcs.	7 „ 7.3 Mcs.
3	7.6 „ 15 Mcs.	14 „ 14.4 Mcs.
4		21 „ 21.45 Mcs.
5	15 „ 31 Mcs.	28 „ 30 Mcs.

VALVE COMPLEMENT

Type 7H7	R.F. Amplifier
X81	First Mixer
7H7	1.6 I.F. Amplifier
X81	Second Mixer
7H7	100 kc. I.F. Amplifier
7R7	Detector and A.F. Amplifier.
6H6	Noise Limiter
6J5	B.F.O.
6F6	Output
5V4	Rectifier
7475	Neon Stabiliser

SELECTIVITY

3 Positions

Broad	10 times down at 4 kcs. off resonance
Medium	10 „ „ „ 2½ kcs. „ „
Sharp	2 „ „ „ 1 kc. „ „
	10 „ „ „ 1½ kcs. „ „
	100 „ „ „ 2.7 kcs. „ „
	1000 „ „ „ 5 kcs. „ „

Signal remains constant with change in selectivity position.

SENSITIVITY

Between 1 and 2 microvolts input for 50 milliwatts output.

SIGNAL/NOISE RATIO

10 microvolts input gives better than 20 DB Signal/Noise ratio.

IMAGE REJECTION

Better than 30 DB at 30 mcs. increasing to over 70 DB at 2 mcs.

AUTOMATIC VOLUME CONTROL

Applied to R.F., 1.6 mc. I.F., Second Mixer, 100 kc. I.F. Output flat within 10 DB with input varying between 3 and 100,000 microvolts.

S. METER

Illuminated. S9 = 100 microvolts. 6 DB Signal ratio per S unit.

B.F.O.

Operation on the low 100 kc. second I.F. frequency ensures high stability and freedom from drift.

AUDIO OUTPUT

3 watts into 2/3 ohms speaker.
Headphones output suitable for low or high resistance phones.

AERIAL INPUT

Balanced or unbalanced to earth. Signal/Noise ratio is substantially constant with input impedance between 70-400 ohms.

MAINS INPUT

100-250 volts 50/60 cycles. Consumption 90 watts.

CABINET

New attractively designed steel Console Cabinet finished in high grade black crinkle enamel.

Size 21 inches wide, 14 inches deep, 11¼ inches high. Weight 46 lbs.

Aerial, Earth and Speaker Connections on rear of chassis, also Terminal Connections for remotely muting Transmitter by relay.

PRICE £302-0-0

CARRIED PAID

DESIGNED AND MANUFACTURED BY:—

RADIOVISION (LEICESTER) LTD., 58-60 RUTLAND STREET, LEICESTER, ENGLAND

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The Manufacturers reserve the right to make changes in the Specification in order to take advantage of any new technical developments.