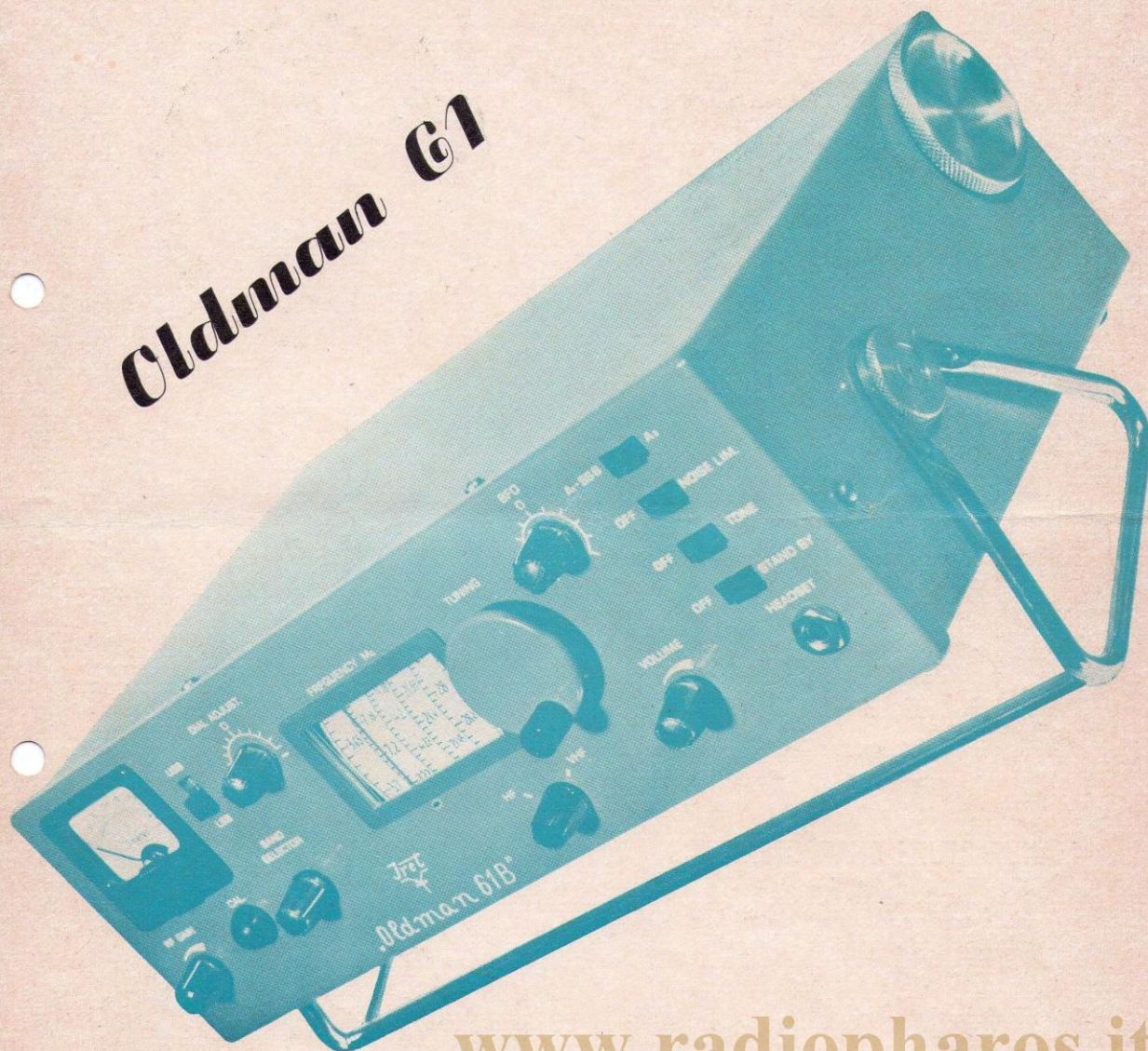


Iret

TRANSISTORIZED RECEIVER FOR AMATEUR PURPOSES

Oldman 61



www.radiopharos.it

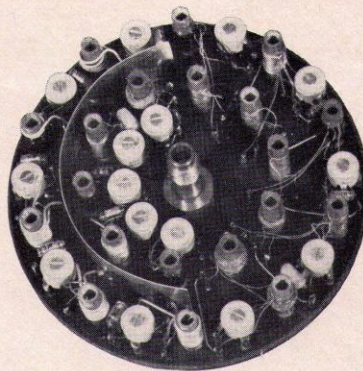
IRET

INDUSTRIA RADIO ELETTRICA TRIESTINA
VIA F. PETRARCA N. 8 - PHONE 41-011 - POB 454 - TRIESTE ITALY

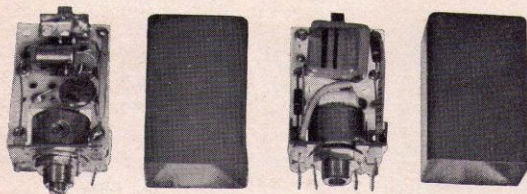
HIGH QUALITY RECEIVER FOR AMATEUR PURPOSES "OLDMAN 61"

The receiver for amateur purposes «OLDMAN 61», completely transistorized, is a very new performance in the field of professional receivers, made possible by the adoption of recent types «of «DRIFT» and «MESA» transistors.

Besides its usual employment as a fixed, receiver, the «OLDMAN 61» becomes precious in «field-days» or in case of emergency, as also in all that cases in which there is no possibility of A. C. power supply.



Turret Type R.F. Block



View I. F. Stages

Its small size, very low power consumption and its lasting parts represent a progress in the evolution of communications technics, being on the other hand equivalent and also better of similar tube operated receivers for technical features.

Guarantee . 1 year

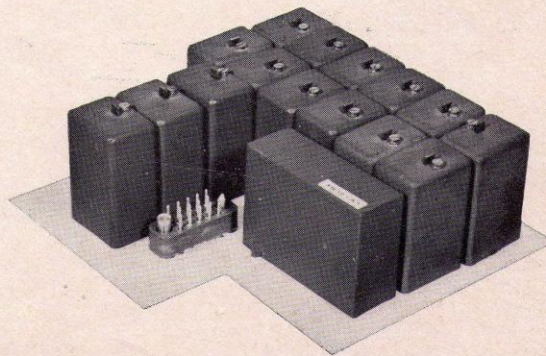
MANUFACTURE CHARACTERISTICS

The most of amplifying stages consists of pre-mounted block unities easily changeable. The RF stage is turret type.

The receiver «OLDMAN 61» is manufactured in two versions :

OLDMAN 61/A - without converter for 2 mt. band

OLDMAN 61/B - with converter for 2 mt. band



I.F. - A.F. Amplifier

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TECHNICAL DATA

RECEIVER

WORKING FREQUENCY:

80 mt. range :	3,5 — 4 Mc/s
40 mt. range	7 — 7,4 Mc/s
20 mt. range	14 — 14,4 Mc/s
15 mt. range :	20,9 21,6 Mc/s
10 mt. range	26 — 30 Mc/s
2 mt. range :	144 146 Mc/s

RECEPTION · AM — CW — SSB upper and lower side band

DIAL LENGHT · about 240 mm.

DIAL PRECISION. HF ranges 0,1% VHF ranges 0,02%
FREQUENCY STABILITY IN THE 0 + 45°C TEMPERA-
TURE RANGE 0,2% on the entire frequency coverage.

OPERATION TEMPERATURE: 30 to + 60°C

FREQUENCY STABILITY DEPENDING UPON POWER-
SUPPLY VOLTAGE 0,1% for a variation of + 10% to
— 25% of the nominal voltage.

SENSITIVITY 80 40 mt. range with a 1 μ V signal,
S/N ratio \geq 20 dB
20—15—10 mt. range with a 1 μ V signal, S/N ratio
 \geq 15 dB
2 mt. range \leq 4,5 KTO

FREQUENCY IMAGE REJECTION:

- \geq 1 : 1000 (\geq 60 dB) on 80—40—20 mt. ranges
- \geq 1 : 500 (\geq 54 dB) on the 15 mt. range
- \geq 1 : 100 (\geq 40 dB) on the 10 mt. range

INTERMEDIATE FREQUENCY REJECTION

- \geq 1 : 100 (\geq 40 dB) on the 80 mt. range
- \geq 1 : 1000 (\geq 60 dB) on the other ranges

AF OUTPUT POWER · $>$ 10 mW with distortion less than
5% on 600 ohm load.

AF RESPONSE LINEARITY: \pm 5 dB between 200 and
2500 c/s

«NOISE LIMITER» operating on the intermediate fre-
quency stages and symmetric limitation of noise peak.

«S-METER» operating without any need of preset.

DOUBLE CONVERSION: Intermediate frequencies 3030
Kc/s and 280 Kc/s

2.nd CONVERSION CRYSTALS: a) 3310 Kc/s b) 2750 Kc/s

CALIBRATING CRYSTAL: 3500 Kc/s

VHF CONVERSION CRYSTAL · 39,33 Mc/s

Product detector for better CW and SSB reception.

Reception by whip antenna with internal tuning al-
ready preset on the 5 HF bands.

TRANSISTORS EMPLOYED: **18** for HF and 4 for VHF.

POWER SUPPLY: 6 V DC (4 portable lamp cells \varnothing 33)

POWER CONSUMPTION about 12 mA without signal
about 20 mA with a 10 mW medium output
Consumptions increase about 8 mA in VHF reception.

AUTHONOMY · 500 hours of intermittent operation.

SPEAKER MODEL OM 75

For a more comfortable reception, the use of a speaker
complete with amplifier and battery power-supply for the
employment together with the «OLDMAN 61» has been
provided for

Its technical characteristics are as follows:

AF RESPONSE \pm 2 dB from 250 to 3000 c/s

INPUT IMPEDANCE: 600 ohm

OUTPUT POWER 100 mW max. undistorted

TRANSISTORS EMPLOYED. Nr 2

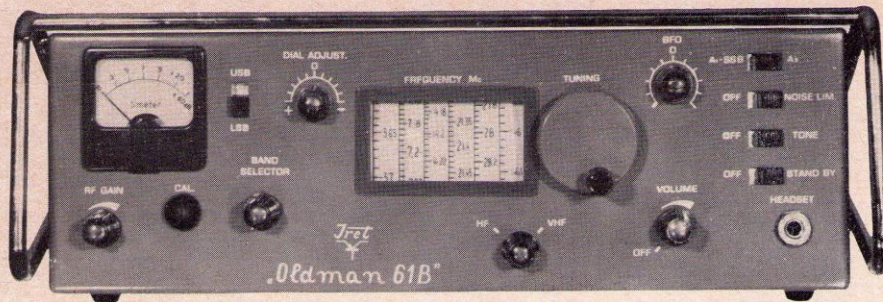
POWER SUPPLY · 4,5 V DC with incorporated battery (3
portable lamp cells \varnothing 33)

MEDIUM POWER CONSUMPTION AT 50 mW: 40 mA

AUTHONOMY: about 250 hours with intermittent operation

DIMENSIONS: 220×80×105 mm.

WEIGHT · about Kg. 1.150 battery included.



Dimensions:
mm 310x95x210

Weight:
Kg 4,7
Batteries
included

CONTROLS' FUNCTION

«TUNING»: Tuning (demultiplication ratio 26:1)

«BAND SELECTOR»: 5 position band selector
(whole rotation)

«HF—VHF»: Frequency range selector

«VOLUME»: Audio volume control and general
on-off switch

«RF GAIN»: Sensitivity control

«CAL»: Push-button for the insertion of calibra-
ting oscillator and dial lighting

«DIAL ADJ»: Fine dial adjustment

«USB—LSB»: Selecting switch for upper and lo-
wer side band for SSB operation

«BFO»: CW operation control

«STAND BY»: Stand by and remote-control from
the transmitter

«NOISE LIM»: Noise limiter

«TONE»: 2 positions tone control

«A1 — SSB — A3»: Type of reception switch

ANTENNA: — 4 mm. normal connector and 72
ohm coaxial connector for HF
— 72 ohm coaxial connector for VHF
— whip antenna connector

OUTPUT: — 4 mm. miniature jack for 600 ohm
headset
— 4 mm. miniature jack for supplementary
headset or amplified speaker.



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