

Courtesy of <http://BlackRadios.terryo.org>



UHF RECEIVER



Type 701 and 702

235 to 1000 MC

Low Noise

Low Oscillator Radiation

Small Size

AM-FM-CW

Carrier Operated Relay

The CEI Type 701 and 702 Receivers were designed to meet the highest possible performance requirements for UHF receivers in critical reconnaissance work.

Tuning the frequency range of 235 to 1000 MC in two bands, these equipments feature extremely low oscillator radiation.

Types 701 and 702 are identical except that type 702 contains an additional 50 kc IF bandwidth. The 2 mc strip is always in operation and has simultaneous FM and AM outputs.

Both units are equipped with a transistorized carrier operated relay used to control external devices as a function of the received signal.

The receivers are designed to handle either amplitude modulated, frequency modulated, or continuous wave signals. A beat frequency oscillator is provided for reception of CW signals.

The entire unit with self-contained power supply is constructed for standard 19" relay rack mounting with a panel height of only 3½".

Employing both solid state and vacuum (Nuvistor type) devices for operational efficiency, these compact, high performance equipments afford the user the ultimate in UHF receivers.

Available with the receivers are the type SM-9310A Signal Monitors used to provide a visual display of signals in a band around the received signal.

Communication  Electronics, Inc.

4900-08 HAMPDEN LANE

BETHESDA, MARYLAND

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SPECIFICATIONS—701 and 702 RECEIVER

Tuning Range	235 - 1000 MC (2 Bands)	
Type Reception	AM - FM - CW	
	BAND A	BAND B
Tuning Range	235 - 500 MC	490 - 1000 MC
Input Impedance	50 ohms unbalanced	50 ohms unbalanced
Noise Figure	10 db. Max.	12 db. Max.
I.F. Rejection	80 db. Min.	90 db. Min.
Image Rejection	65 db. Min.	75 db. Min.
Osc. Radiation	8 uv. Max.	75 uv. Max.
First Local Oscillator	Tunable & Fine Tuning	Tunable & Fine Tuning
Second L.O.	Xtal Controlled	Xtal Controlled

IF BANDWIDTHS

	Type 701	300 kc and 2 mc, simultaneously operating Selectable to either 300 kc or 50 kc, plus simultaneous operation of 2 mc
	Type 702	
Sensitivity	300 KC Bandwidth	AM: 8 uv input, modulated 50% produces 10 db $\frac{S + N}{N}$, minimum FM: 8 uv input, modulated at 1 kc with 100 kc deviation, produces 21 db $\frac{S + N}{N}$, minimum
	50 KC Bandwidth (Type 702 Receiver only)	AM: 4 uv input, modulated 50%, produces 10 db $\frac{S + N}{N}$, minimum FM: 4 uv input, modulated at 1 kc with 15 kc deviation, produces 21 db $\frac{S + N}{N}$, minimum
	2 MC Bandwidth	AM: 24 uv input, modulated 50%, produces 10 db $\frac{S + N}{N}$, minimum FM: 24 uv input, modulated at 1 kc with 750 kc deviation, produces 21 db $\frac{S + N}{N}$, minimum

Output Stability	300 kc IF Bandwidth	AM: Output varies less than 15 db for input range of 4-10,000 uv FM: Output varies less than 2 db for inputs above 1.5 uv
	50 kc IF Bandwidth (Type 702 Receiver only)	AM: Output varies less than 15 db for input range of 4-10,000 uv FM: Output varies less than 2 db for inputs above 1.5 uv
	2 mc IF Bandwidths	AM: For input levels above 4 uv, output varies only with modulation percentage FM: For input levels above 4 uv, output varies only with extent of frequency deviation of carrier
	Audio Output Power	100 milliwatts, minimum, into 600-ohm load, balanced or unbalanced, using either headphones jack or speaker connection terminals
	Audio Response	100 cps to 40 kc at 3 db points
Video Output, 50 or 300 kc IF Bandwidth		5 volts, rms, across a 10 K ohm load
Video Output, 2 mc IF Bandwidth		2 volts, peak-to-peak across 93-ohm load
Signal Monitor Output		21.4-mc center frequency IF signal output, for use with CEI signal monitors.
Beat Frequency Oscillator		21.4-mc center frequency, variable ± 20 kc, for use with 50-kc or 300-kc bandwidth
Carrier-Operated Relay Sensitivity		Adjustable from 1-10,000 uv input
Carrier-Operated Relay Drop-Out Delay		Fast: Less than 0.5 sec. Slow: 6 sec., approximately
	Power Input	115/230 vac, 50-60/400 cps
	Power Consumption	60 watts, maximum
	Weight	21 lbs.
	Size	3 1/2" x 19" x 15"
	Panel Color	Grey, MIL-E-15090, No. 26452
	PRICE	Type 701—\$3,000.00 Type 702—3,500.00

F.O.B. BETHESDA, MARYLAND

PRICE SUBJECT TO CHANGE WITHOUT NOTICE

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