

ALINCO



Repeater

VHF RS-D7

UHF RS-D8

The Cost-effective Digital Migration Solution.

- Professional design suitable for desktop, cabinet and rack installations.
- Outstanding Heat Dissipation with intelligent cooling fan.
- Analog / digital mixed mode detects signals automatically and sets correct mode.
- 9 LED indicators on the front panel display current status of operations.
- IP connection enables repeaters in different areas to communicate data, voice and packets over a TCP/IP based network.



Standard Accessories

- AC cord ADUA99
- DC cable ADUA101



Optional Accessories

- Ethernet Cable ERW-20



Specifications

General

Repeaters

Frequency Range	VHF 136~174MHz, UHF 400~470MHz
Channel Capacity	64
Channel Spacing	12.5KHz / 20KHz / 25KHz
Operating Voltage	DC13.8V±20% or AC 100-250V 50/60Hz
Dimension (approx. W x H x D)	482.6mm×338.5mm×132.5mm
Weight (approx.)	11.5kg

Transmitter

Repeaters

Frequency Stability	±0.5ppm
Power Output	VHF: 5 ~ 50W / UHF: 5 ~ 40W Adjustable by PC setting
Modulation Limiting	±2.5kHz@12.5kHz, ±4.0kHz@20kHz, ±5.0kHz@25kHz
FM Hum and Noise	40 dB @ 12.5 kHz, 45 dB @ 20 / 25 kHz
Conducted/Radiated Emission	−36dBm@<1GHz, −30dBm@>1GHz
Adjacent Channel Power	60 dB @ 12.5 kHz, 70 dB @ 20 / 25 kHz
4FSK Digital Modulation	12.5kHz Data: 7K60F1D&7K60FXD, 12.5kHz Voice: 7K60F1E&7K60FXE Combination of 12.5kHz Voice and Data: 7K60F1W
Analog Modulation	11K0F3E@12.5kHz, 14K0F3E @20kHz, 16K0F3E@25kHz
Digital Protocol / Vocoder	ETSI TS 102 361-1, -2, -3, -4

Receiver

Repeaters

Analog / Digital Sensitivity	0.3μV/(12dB SINAD) / 0.3μV/BER5%
Intermodulation	TIA603C : 75dB, ETSI : 60dB
Adjacent Channel Selectivity (ETSI)	65dB@12.5KHz/ 75dB@20/25KHz
Spurious Response Rejection	TIA603C:85dB ETSI:80dB
Hum and Noise	40 dB @ 12.5 kHz, 45 dB @ 20 / 25 kHz
Audio Distortion	≤ 3% (typical)
Conducted Spurious Emission	−57dBm@<1GHz, −47dBm@>1GHz

Environmental Specifications

Operating Temperature	−30°C ~ +60°C
Storage Temperature	−45°C ~ +85°C
ESD	IEC61000-4-2(Level4) ±4kV(Contact) ±8kV(air)
Max Duty Cycle	100%

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Caution

Please be sure to read the instruction manual before using the product for your safety.

