



ROVER

PROFESSIONAL DUAL-MODE DMR REPEATER

EXTEND YOUR RANGE. DMR REPEATER. ANYWHERE YOU OPERATE.

The R-9500D is a high-power DMR repeater designed to extend communication range in any environment. Reliable. Powerful. Always connected.

50W
DMR REPEATER



WIDE AREA COVERAGE

Extend communication over long distances



IP LINK READY

Seamless network integration



AC + DC POWER

Flexible power for any setup



RELIABLE PERFORMANCE

Built for 24/7 mission-critical use



LCD DISPLAY

Real-time RX intensity & TX power



CROSS-MODE

POC ↔ DMR / Analog (optional)



CHANNELS

12.5 / 20 / 25 kHz bandwidth



HIGH POWER

50W output power (1-45W adjustable)

MODEL NO.

R-9500D

**COMMUNICATE WITH POWER.
WHEREVER YOU OPERATE.**



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**MODEL
R-9500D**
**DUAL-MODE
DMR
REPEATER**
**EXTEND YOUR NETWORK.
BUILT TO REPEAT.**

High-power 1U dual-mode repeater designed for reliable, long-range and secure communication across analog and digital networks in any deployment.



LCD DISPLAY
RX intensity &
TX power



DUAL MODE
Analog +
Digital DMR



CROSS-MODE
POC ↔ DMR /
Analog (optional)



64 CHANNELS
12.5 / 20 / 25 kHz
bandwidth

TECHNICAL SPECIFICATIONS

Model	ROVER R-9500D
Frequency Range	400–470 MHz
Channel Capacity	64
Channel Spacing	12.5 / 20 / 25 kHz
Operating Voltage	AC + DC dual supply
Operating Temperature	–30°C to +60°C
Current Consumption	DC ≤12A / AC ≤1.5A (Max High Power)
Modulation Type	4FSK Digital / 16K0F3E Analog
Frequency Stability	±1 ppm
RF Output Power	50W (1–45W adjustable)
Receiver Sensitivity	TIA-603 60dB @ 12.5kHz
Audio Distortion	≤3%
Antenna Impedance	50Ω
Form Factor	1U Rack-Mount
Communication Mode	DMR Tier I & II / Analog / Cross-Mode
ESD	IEC 61000–4–2 Level 4

POWER & PERFORMANCE

	RF Power Output	High 45W / Low 1W adjustable
	Power Supply	AC and DC dual-source
	Channel Spacing	12.5 / 20 / 25 kHz selective
	Operating Range	Long-range, IP link extensible
	Cooling System	Inner looping fans, excellent heat dissipation

TRANSMISSION PERFORMANCE

- ✓ DMR Tier I & II
- ✓ Cross-Mode Bridging (POC ↔ DMR / Analog)
- ✓ IP Network Link
- ✓ Encryption
- ✓ Emergency Call
- ✓ Remote Monitor / Radio Kill / Activate
- ✓ CTCSS / DCS

KEY BENEFITS

-  Mission-Critical Reliability
-  Flexible Deployment
-  Network Scalable

ADVANCED FEATURES

-  Dual-Mode Operation
-  Programming Protection
-  Real-Time LCD

OPERATIONAL EFFICIENCY

-  Quick Deploy
-  Modular Design
-  DB26 Audio Out

APPLICATIONS

-  Public Safety
-  Telecom Infrastructure
-  Industrial Sites
-  Construction
-  Government

DURABILITY & DESIGN

- ✓ Robust 1U rack-mount chassis
- ✓ Wide operating temperature (–30°C to +60°C)
- ✓ Excellent heat dissipation & stable performance
- ✓ ESD protection IEC 61000–4–2 Level 4

IDEAL FOR

-  PUBLIC SAFETY
-  TELECOM
-  INDUSTRY
-  CONSTRUCTION
-  GOVERNMENT



HOW TO INSTALL & OPERATE



1. POWER CONNECTION

Connect AC mains or DC supply.
Switch sources via rear-panel selector.
LCD boots to preset channel.



2. DUPLEXER & ANTENNA SETUP

Attach tuned duplexer to TX/RX ports.
Connect 50Ω antenna feedline.
Verify SWR before transmit.



3. CHANNEL & MODE PROGRAMMING

Use front panel or PC software to set
64 channels, bandwidth (12.5/20/25 kHz),
and analog/digital mode per channel.



4. MONITORING & STATUS

LCD displays RX field intensity, TX power,
channel and alarm states in real time.



5. IP LINK CONFIGURATION

Configure wide-area network parameters
for multi-site repeater linking via
included IP interface.



IMPORTANT SAFETY



DO NOT operate without a properly tuned duplexer.



TURN OFF before servicing internal modules.
Allow heat sinks to cool.



DO NOT open or modify the unit.
Qualified RF technicians only.



DO NOT transmit with a damaged or
mismatched antenna.



ENSURE adequate airflow around the rack.
-30°C to +60°C.



VERIFY correct AC/DC voltage.
Use proper grounding.



POWER & INSTALLATION

POWER INPUT



- AC mains or DC supply
- Dual-source compatible
- Stable continuous operation

RACK INSTALLATION



- Standard 1U rack-mount
- Ultra-thin profile
- Easy carry and redeploy

RF CONNECTIVITY



- TX/RX ports for duplexer
- DB26 audio out
- IP link port for WAN



SMART FEATURES



LCD DISPLAY
Real-time status
& performance



DUAL MODE
Analog +
Digital DMR



IP LINK
Wide area
network ready



ENCRYPTION
Secure voice
communication



MODULAR DESIGN
Easy maintenance
& upgrades

TELECOM



PUBLIC SAFETY



CONSTRUCTION



OIL & GAS



GOVERNMENT

