CDL5 UHF External Radio

Ver.2021.04.12

18 cm

11 cm

Size: 11cm × 18cm × 9.3cm
Weight: About 1.3 kg

CDL5
UHF External Radio

DESIGNED FOR GNSS RTK SURVEY SYSTEMS

The CDL5 (ComNav Data Link) is a high-quality, entire band UHF external radio designed for GNSS RTK survey system. High power design will extend your RTK work region. Fully metal construction provides high performance and rugged dependability for the toughest environment.

Features

- Designed for GNSS RTK Survey Systems
- Change Channels From 410-470 MHz in the Field
- Channel Spacing at 12.5 kHz
- Support 9600/19200 Air Baud Rate
- 6 User-defined Power Levels From 2W to 30W
- Anti-reverse Power Protection
- Super-rugged IP67 Proof Level and Robust Reliability
- Work as TX/RX/Repeater Mode
- Support Industry Common UHF Protocols

EASY OF SETUP

The CDL5 is designed to easily amount on all standard tripods and range poles. Advanced 10 channels can be easily changed even in the field. Different power level can be adapted as condition require: you can use high power for long range, and when in small work area, the lower power extends your battery working hours.

REPEATER FUNCTION

The CDL5 can seamlessly broadcast corrections to radio-enabled devices, and CDL5 is also capable of repeating real-time data. The work coverage can be enhanced by the function of repeaters, which enables you to reach inaccessible or obstructed locations.

SinoGNSS®
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General

Frequency Range	410-470 MHz
Channel Spacing	12.5 kHz Channel Spacing ± 1.5 ppm Stability
Work Mode	Half-duplex
Frequency Stability	1.5ppm
Modulation System	GMSK
Air Baud Rate	9600/19200 bps Selectable
Protocol Type	Transparent/South/Mac/TT450
Adjacent Channel Rejection Ratio	- 55 dB
Forward Error Correction	Yes
Sensitivity	-117dBm BER 10^{-5}

Physical

Data Connector	1 Serial Port (7-pin Lemo) Baud rates 38400bps (4800 bps to 115200 bps optional)
Power Connector	2-pin Lemo port
RF External	50 Ohm, N-TYPE female
User Interface	- Power button (for powering receiver) - Channel button - Power selected button - Digital display
Size (with connector)	11cm × 18cm × 9.3cm
Weight	1.3 kg
Mount	Tripod Bracket, 5/8”-11 Range Pole

Electrical

Power Supply	+10V ~ +14.5V DC
Transmit Current	1-2A (2W output power) 5-6A (30W output power)
Received Current	200mA (0.75W)
Transmit Power	2W/5W/10W/15W/20W/30W
Transmit Power Select	Low/High

Environmental

Operating Temperature	-40℃ to +75℃
Storage Temperature	-50℃ to +85℃
Humidity	100% no condensation
Dustproof and waterproof	IP67, protected from temporary immersion to depth 1m
Shock	Designed to survive a 2m drop onto concrete

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