

CDR-500UV

A new generation of waterproof DMR vehicle radio.
 Hd touch large screen, one touch response.
 Full metal body, sturdy and durable.

- ◆ Dual band, duan standby ◆ Dual mode (digital & analog) ◆ True 2-time slot



- HD** Large display
- Built-in speaker
- Touch sensitive
- IP67** waterproof rating
- Stable performance

Features:

DMO Dual Time-slot Communication, multiply efficiency

Realizes 2 talk paths on a frequency at the same time, multiply the efficiency and doubling the frequency utilization. Ensure real-time communication at peak service hours.

Digital-Analog compatibility, Value-added experience

Support for compatibility with existing conventional analog products or systems, to ensure a smooth transition from analog to digital products, thereby improving product utilization.

Digital speech, clear and loud

Digital Speech Error Correction Processing (AMBE+2™) enables voice with superior clarity and performance. Provide clearer voice quality than analog radios, regardless of the usage environment

VOX feature, release hands

The special VOX voice-activated feature can be voice triggered to make calls with audio accessories, which is particularly suitable for users who can't operate the PTT button to make calls.

Emergency Alarm

Emergency alarms have the highest priority and can be used to send alarms to companions and the control center when an emergency situation is encountered.

Voice Encryption to Ensure Users' Communication Security

The function provides basic voice encryption to safeguard users' communication security.

Full metal casing, military quality

The all-metal housing design is robust and durable. High and low temperature resistance, fast heat dissipation, all-weather operation. Adaptable temperature -20°C~60°C. Can cope with a variety of industrial harsh environment

TFT HD color touch screen, easy and flexible operation

TFT color display interface with visual icon display, capacitive touch, one touch response. No blind spots, sensitive touch.

Military Quality, Stable and Reliable

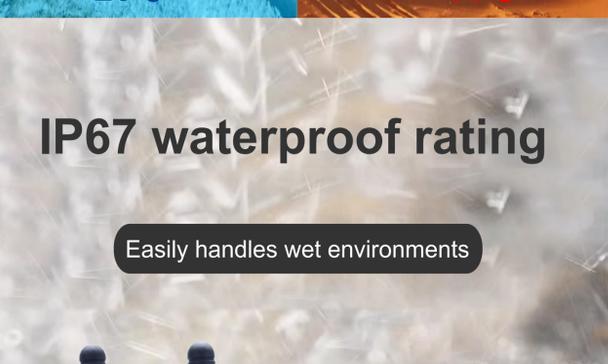
The product is IP67 and MIL-STD-810 C/D/E/F/G compliant; the quality testing includes drop, high and low temperature, humidity, dustproof, and vibration; the product still functions properly in busy commercial service when accidental drops or showers.

More supplementary services to provide richer application experience

The hardware is newly upgraded to support a variety of services such as remote monitor, remote detection, call alert, remote kill, remote revive, etc., providing users with richer application experience.

Capacitive touch, one touch response

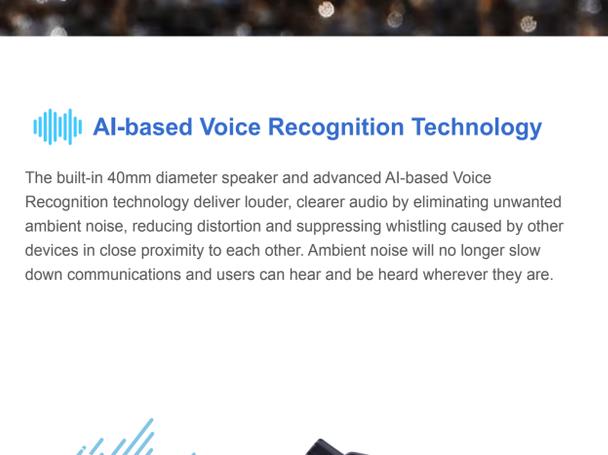
Adopting a highly sensitive touch screen to improve screen touch accuracy. No blind spots, sensitive touch.



Full metal casing, military quality

Rugged and collision resistant

High and low temperature resistance, all-weather operation. Can cope with a variety of industrial harsh environment



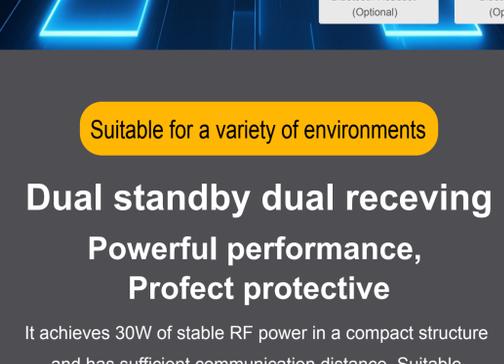
IP67 waterproof rating

Easily handles wet environments



AI-based Voice Recognition Technology

The built-in 40mm diameter speaker and advanced AI-based Voice Recognition technology deliver louder, clearer audio by eliminating unwanted ambient noise, reducing distortion and suppressing whistling caused by other devices in close proximity to each other. Ambient noise will no longer slow down communications and users can hear and be heard wherever they are.



Bluetooth 5.0

CDR-500UV supports Bluetooth; it is fast connection, high compatibility, wide coverage, stable, no lag, and zero delay on calls.



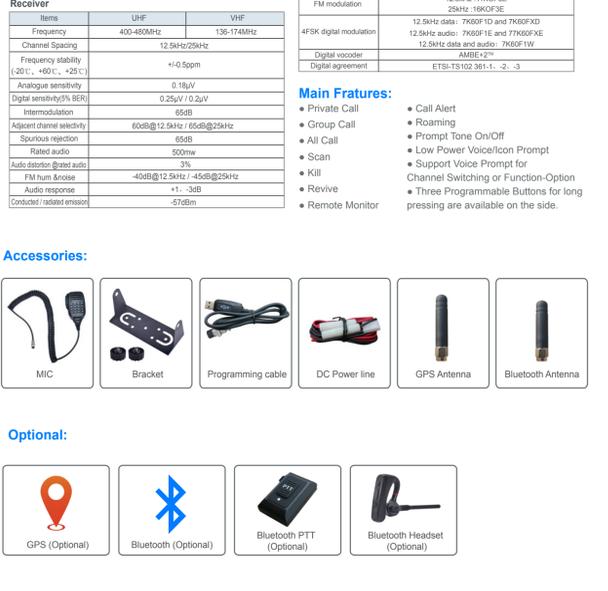
- Bluetooth Headset (Optional)
- Bluetooth PTT (Optional)

Suitable for a variety of environments

Dual standby dual receiving

Powerful performance, Perfect protective

It achieves 30W of stable RF power in a compact structure and has sufficient communication distance. Suitable for use in various environments, such as cities, mountains, plains, deserts, etc.



Technical parameters

General specification			Transmitter		
Items	UHF	VHF	Items	UHF	VHF
Frequency	400-480MHz	136-174MHz	Frequency	400-480MHz	136-174MHz
Channel Zone		16	Channel Spacing	12.5kHz/25kHz	12.5kHz/25kHz
Channel Capacity	4000 (250 Channels / Zone)		Frequency stability	±0.5ppm	±0.5ppm
Antenna impedance	50Ω		Low Power	10W	10W
Dimension	175x62x70mm		High power	30W	30W
Rated Voltage	DC 13.70V		Modulation restriction	±2.550@12.5kHz / ±5.000@25kHz	
Note: The battery working life may have little difference. Battery capacity maybe change without notice, but the list is standard specification.			FM hums noise	-40dB@12.5kHz / -45dB@25kHz	
			Conducted emission	-36dBm - 1GHz / -30dBm - 1GHz	
			Adjacent channel selectivity	-60dB@12.5kHz / -55dB@25kHz	
			Audio Distortion	$+1$ @30dB	
			Audio Elaboration	3%	
			FM modulation	12.5kHz: 11KCF3E 25kHz: 18KCF3E	
			4FSK digital modulation	12.5kHz: 084E 7K60F1E and 7K6F2D	
			Digital voice	12.5kHz: 084E and 7K60F1E and 7K60F2D	
			Digital agreement	ETSI-TS102 361-1, -2, -3	

- ### Receiver
- | Items | UHF | VHF |
|------------------------------|-----------------------------|------------|
| Frequency | 400-480MHz | 136-174MHz |
| Channel Spacing | 12.5kHz/25kHz | |
| Frequency stability | ±0.5ppm | |
| Rated audio | 3% | |
| Analogue sensitivity | 0.18μV | |
| Digital sensitivity(9% BER) | 0.25μV / 0.2μV | |
| Intermodulation | 65dB | |
| Adjacent channel selectivity | 60dB@12.5kHz / 65dB@25kHz | |
| Spurious rejection | 65dB | |
| Rated audio | 500mV | |
| Audio distortion @25kHz | 3% | |
| FM hum noise | -40dB@12.5kHz / -45dB@25kHz | |
| Audio response | +1 -3dB | |
| Conduct / radiated emission | -57dBm | |
- ### Main Features:
- Private Call
 - Group Call
 - All Call
 - Scan
 - Kill
 - Revive
 - Remote Monitor
 - Call Alert
 - Foaming
 - Prompt Tone On/Off
 - Low Power Voice/Icon Prompt
 - Support Voice Prompt for Channel Switching or Function-Option
 - Three Programmable Buttons for long pressing are available on the side.
- ### Accessories:
- MIC
 - Bracket
 - Programming cable
 - DC Power line
 - GPS Antenna
 - Bluetooth Antenna
- ### Optional:
- GPS (Optional)
 - Bluetooth (Optional)
 - Bluetooth PTT (Optional)
 - Bluetooth Headset (Optional)