

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 & analoge) ◆ True 2-time slot



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 voice, 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

Emergency Alarms
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.

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.

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.

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.

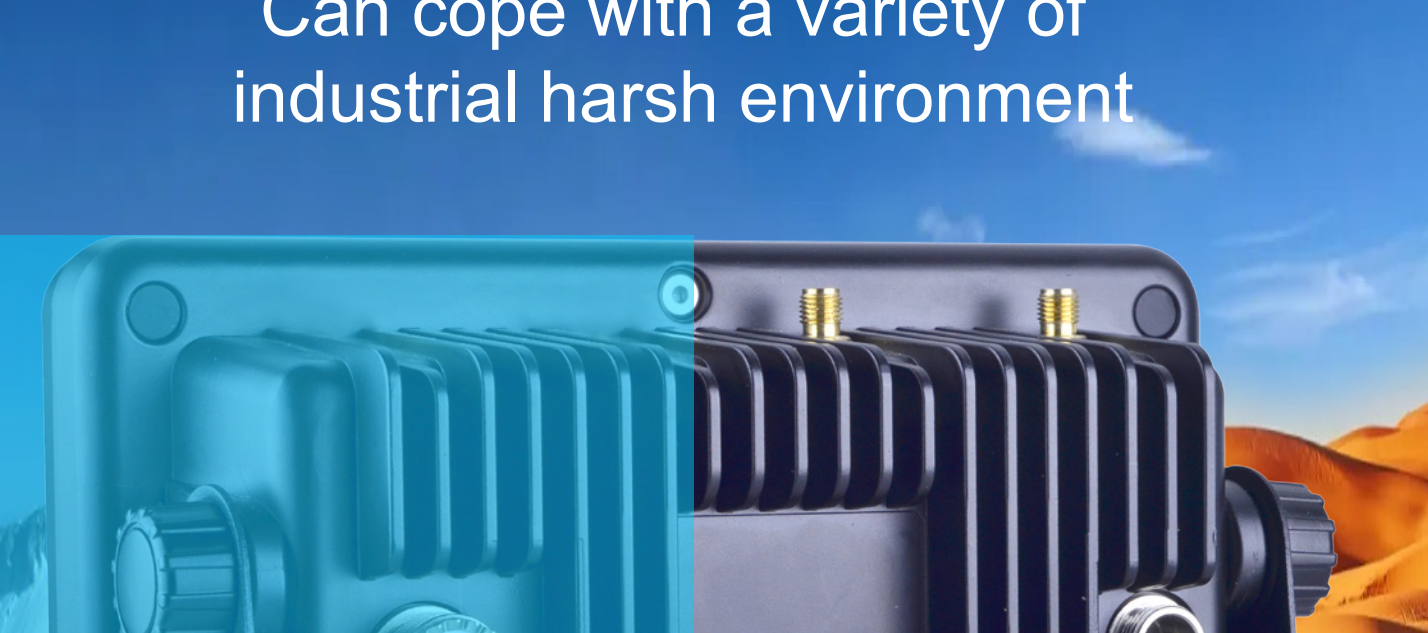
Voice Encryption to Ensure Users' Communication Security
The function provides basic voice encryption to safeguard users' communication security.

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.

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

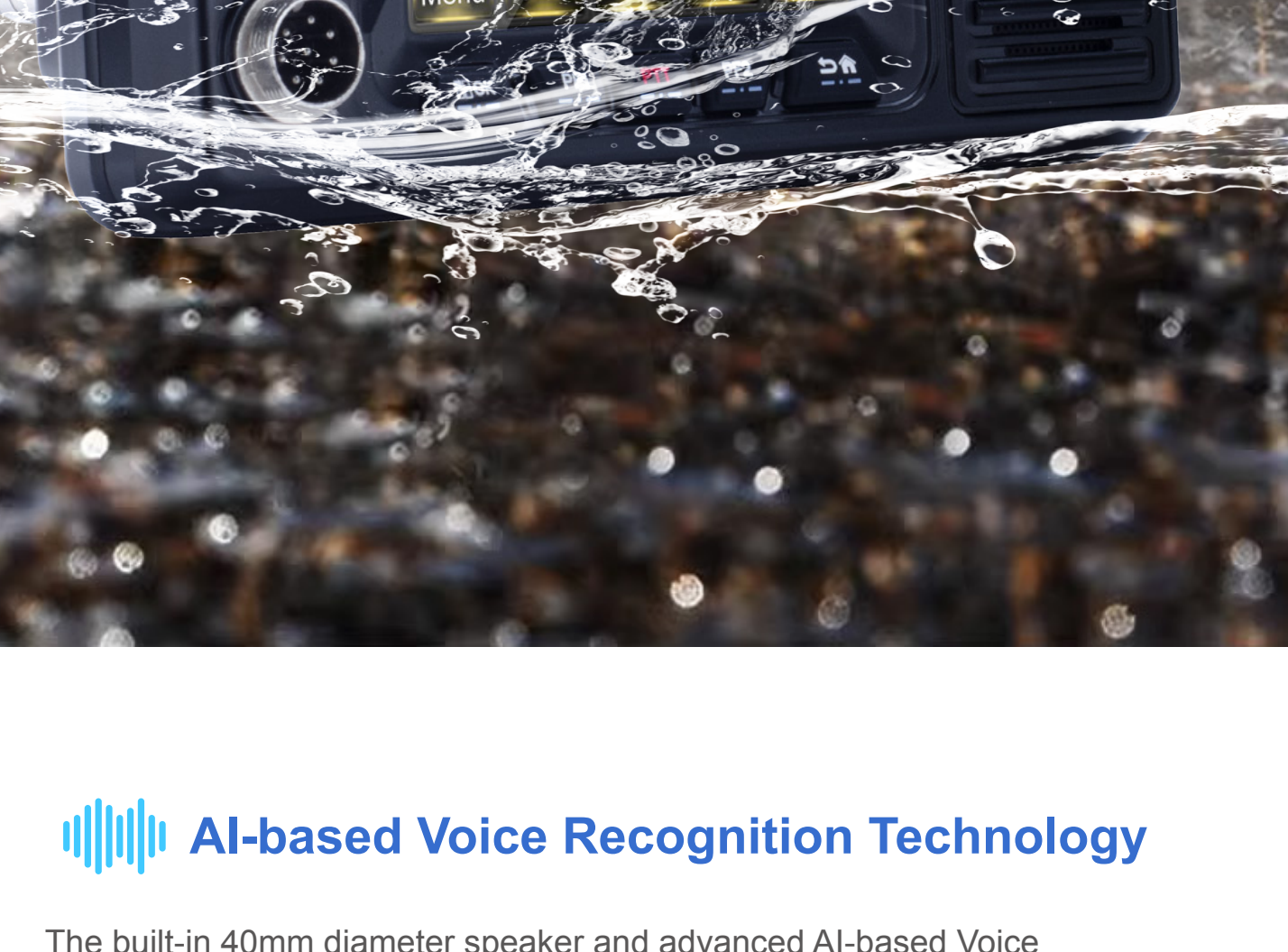
Adopting a highly sensitive touch screen to improve screen touch accuracy.
No blind spots, sensitive touch.



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



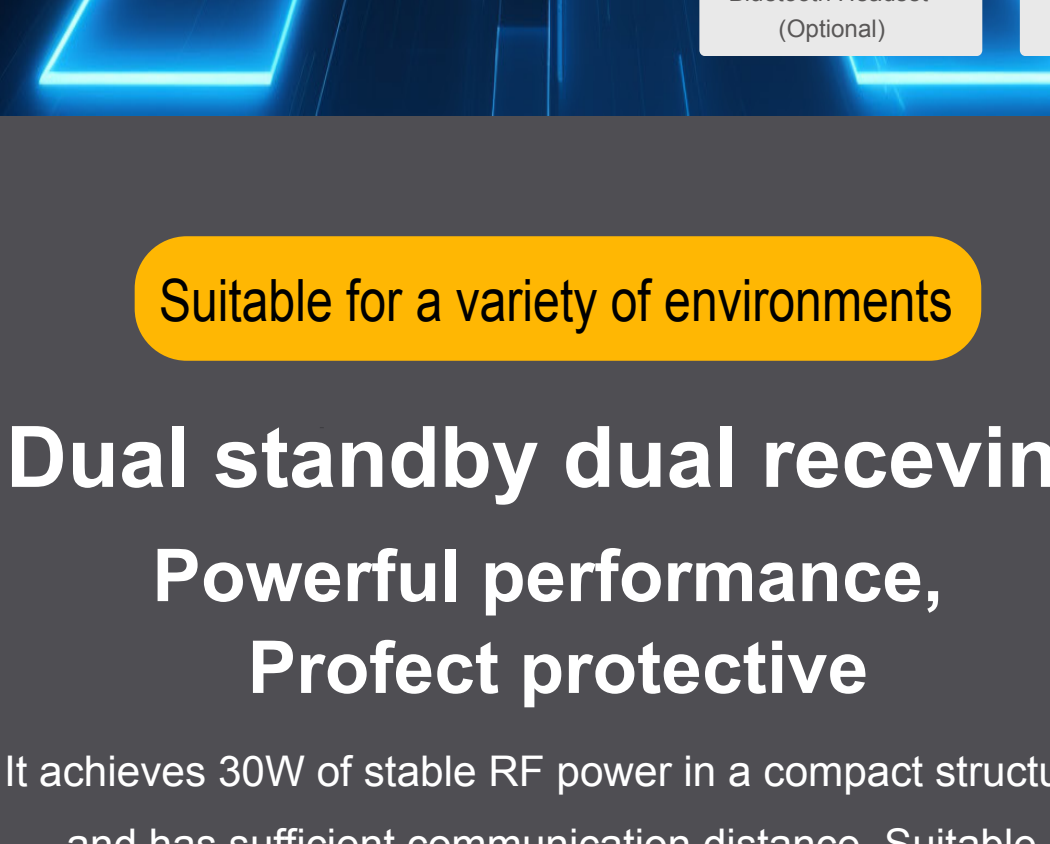
IP67 waterproof rating

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 the 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.



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

Items	UHF	VHF
Frequency	400-480MHz	136-174MHz
Channel Zone	16	
Channel Spacing	12.5kHz/25kHz	
Channel Capacity	4000 (250 Channels / Zone)	
Antenna Impedance	50Ω	
Dimension	175x62x70mm	
Rated Voltage	DC 13.8V	

Note: The battery working life may have little difference.
Battery capacity maybe change without notice, but the list is standard specification.

Receiver

Items	UHF	VHF
Frequency	400-480MHz	136-174MHz
Channel Spacing	12.5kHz/25kHz	
Frequency stability	±0.5ppm	
Rated audio	+10dBm	
Analogue sensitivity	0.25μV / 0.2μV	
Digital sensitivity(5% BER)	0.25μV / 0.2μV	
Intermodulation	65dB	
Adjacent channel selectivity	60dB@12.5kHz / 65dB@25kHz	
Spurious rejection	65dB	
Rated audio	500mW	
Audio distortion @1000Hz	≤1%	
FM humd noise	-40dB@12.5kHz / -45dB@25kHz	
Audio response	+1 ~ -3dB	
Conducted / radiated emission	≤57dBm	

Transmitter

Items	UHF	VHF
Frequency	400-480MHz	136-174MHz
Channel Spacing	12.5kHz/25kHz	
Frequency stability	±0.5ppm	
Low Power	10W	
High power	30W	
Modulation restriction	12.5kHz@12.5kHz / -45dB@25kHz	
FM humd noise	-40dB@12.5kHz / -45dB@25kHz	
Conducted/radiated emission	-36dBm ~ 1GHz / -30dBm ~ 1GHz	
Adjacent channel selectivity	-60dB@12.5kHz / -65dB@25kHz	
Audio Response	+1 ~ -3dB	
Audio Distortion	≤1%	
FM modulation	12.5kHz: 11KCF3E 25kHz: 11KCF3E	
4FSK digital modulation	12.5kHz@12.5kHz: 7K60F10 and 7K60F10D 12.5kHz@12.5kHz: 7K60F10E and 7K60F10XE 12.5kHz@12.5kHz: 7K60F10E and 7K60F10XE	
Digital agreement	ETSI:TS102 361-1, -2, -3	

Main Features:

- Private Call
- Group Call
- All Call
- Scan
- Kill
- Revive
- Remote Monitor
- Call Alert
- Roaming
- 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:

Optional:

