

Professional DMR Mobile Two-way Radios

HM6 series

EMPOWER YOUR OPERATION



The Hytera HM6 series is a new generation of entry-level professional DMR mobile two-way radios designed to provide reliable voice and data communications in mobile devices anytime, anywhere. You can stay connected with your teammates wherever the action takes you. The HM6 series is your best partner in transportation, business, utilities, and more.

Compact and lightweight, the HM6 series is easy to install. Thanks to the handheld control head (HHCH), you can install the radio unit anywhere in your vehicle such as in the trunk and still control the radio. With the ergonomic design, the four piano-style buttons make operations effortless. The AI-based noise cancellation ensures the HM6 series to deliver superb clear audios without ambient noise. With the higher RX sensitivity, the HM6 series provides you smoother communication. The built-in BT 5.0 module enables you to use various BT audio accessories and program the HM6 series conveniently without the hassles of cables.



Smooth Communication

- Thanks to the high RX sensitivity, the HM6 series can deliver clear and dependable communications even in the area where the signal is unstable or weak.

Digital and Analog Compatibility

- The HM6 series can operate in either analog or digital mode, which is the ideal solution for you to migrate from analog to digital with minimal disruption and investment.



Crystal-clear Audio

- The HM6 series delivers superb audio in noisy streets or highways. The AI-based noise cancellation filters out echoes and background noises such as horn and engine sounds, make your communication more efficient. The howling suppression prevents the screeching or howling feedback between two radios in the same vehicle, ensuring clear and uninterrupted communication on the move.





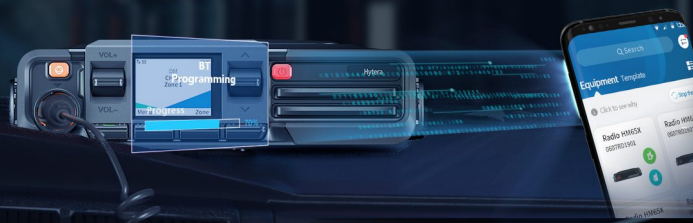
Innovative Design

- Compact and lightweight, the HM6 series is easy to install, remove, or operate in the vehicle. The front panel adopts two-shot molding to make the operation area more recognizable. The transreflective display is readable even in the dark or direct sunlight. At the bottom of the display, the four piano-style keys offer great haptic feedback when pressed.



Wireless Connection

- With the built-in BT 5.0 module, the HM6 series can work with the BT audio accessories to boost your safety and productivity during in-vehicle communications. And these radios can be programmed through BT, saving time and resource.



Handheld Control Head

- With the HHCH connected, the HM65X can be installed under the seat, in the trunk, or anywhere in the vehicle, making the installation more flexible. Also, the HHCH helps you turn on or off the HM65X, switch channels or contacts, adjust volumes, or view messages.

* This function is only supported by HM65X.





Unrivalled Versatility

- In addition to reliable voice calls, the HM6 Series provides various data services including text message, clarity transmission, emergency alarm, radio enable/disable, GPS location, and more. These services dramatically enhance your safety and productivity.

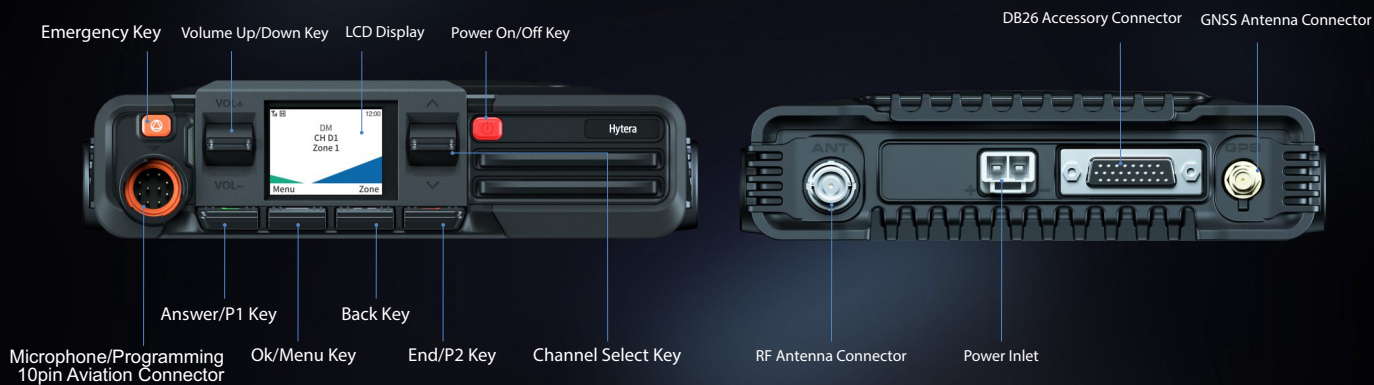


Superior Durability

- The HM6 series withstands harsh temperatures, shock, and vibration, and meets MIL-STD-810H standards, and IP54 for dust and water intrusion. The connection between the palm microphone and 10pin aviation connector keep very tight and is difficult to loosen. The drawstring of the palm microphone has the excellent stretching ability to protect the palm microphone to get the maximum service life.



APPEARANCE



SPECIFICATIONS

GENERAL

Frequency Range	UHF: 400~470MHz; 450~527MHz	VHF: 136~174MHz
Channel Capacity	512	
Zone Capacity	32	
Channel Spacing	12.5kHz/20kHz/25kHz	
Operating Voltage	13.6V±15%	
Current Drain	Standby: <0.5A	
	Receive: <2.0A	
	5W: <4A	
	Transmit 25W: <8A 45W: <12A	
Frequency Stability	±0.5ppm	
Antenna Impedance	50Ω	
Dimensions (H x W x D)	HM68X: 164 x 159 x 42 mm	
	HM65X: 164 x 154 x 42 mm	
Weight	HM68X: 1150g	
	HM65X: 1100g	
LCD Display(only HM68X)	1.45", 6Line	

RECEIVER

Sensitivity	Analog 0.18μV (12dB SINAD)	
	0.16μV (12dB SINAD) (Typical)	
Selectivity	Digital 0.18μV/BER5%	
	TIA-603: 65dB@12.5kHz / 75dB@20/25kHz ETSI: 60dB@12.5kHz / 70dB@20/25kHz	
Inter-modulation	TIA-603: 75dB@12.5/20/25kHz	
	ETSI: 70dB@12.5/20/25kHz	
Spurious Response Rejection	TIA-603: 75dB@12.5/20/25kHz	
	ETSI: 70dB@12.5/20/25kHz	
Blocking	TIA-603: 90dB	
	ETSI: 84dB	
Hum and Noise	40dB@12.5kHz; 43dB@20kHz; 45dB@25kHz	
Rated Audio Power Output	Internal (20 Ohm load): 3W	
	External (8 Ohm load): 7.5W	
Max Audio Power Output	Internal (20 Ohm load): 6W	
	External (8 Ohm load): 20W	
Rated Audio Distortion	≤3%	
Audio Response	+1 to -3dB	
Conducted Spurious Emission	<-57dBm	

TRANSMITTER

RF Power Output	Low power: 5-25W	
	High power: 5-45W	
FM Modulation	11K0F3E@12.5kHz	
	14K0F3E@20kHz	
	16K0F3E@25kHz	
4FSK Digital Modulation	12.5kHz Data Only: 7K60FXD	
	12.5kHz Data and Voice: 7K60FXW	
Conducted/Radiated Emission	-36dBm<1GHz; -30dBm >1GHz	
Modulation Limiting	±2.5kHz@12.5kHz; ±4.0kHz@20kHz; ±5.0kHz@25kHz	
FM Hum & Noise	40dB@12.5kHz; 43dB@20kHz; 45dB@25kHz	
Adjacent Channel Power	60dB@12.5kHz; 70dB@20/25kHz	
Audio Response	+1 to -3dB	
Audio Distortion	≤3%	
Digital Vocoder Type	AMBE+2™	

ENVIRONMENTAL

Operating Temperature	-30°C~ +60°C	
Storage Temperature	-40°C~ +85°C	
ESD	IEC 61000-4-2(Level 4) ±8kV (Contact); ±15kV (Air)	
Dustproof & Waterproof	IP54	
Humidity	Per MIL-STD-810H Standard	
Shock & Vibration	Per MIL-STD-810H Standard	

GPS

GNSS	GPS, GPS+BD5	
TTFF (Time To First Fix) Cold Start	<1minute	
TTFF (Time To First Fix) Hot Start	<10seconds	
Horizontal Accuracy	<5meters	

Accuracy specs are for long-term tracking
(95th percentile values>5 satellites visible at a nominal -130dBm signal strength)

ACCESSORIES



- Remote Speaker Microphone Without Display(HM68X)



- Remote Speaker Microphone With Display(HM65X)



- Power Cord



- Mounting Bracket Kit



- GNSS Antenna (For radio with the GNSS feature)



- External power supply



- Ignition cable



- Bluetooth remote speaker microphone



- Back to back data cable



- External Speaker



- DB26 Programming and data Cable



- Antenna



- USB Programming/downloading firmware upgrading cable

- Standard
- Optional



Caelus Wireless Pty Ltd

Address: 2/9 Allgas St, Slacks Creek QLD 4127

E-Mail: sales@caeluswireless.com.au