Hytera

THE **HM6 RANGE** OF PROFESSIONAL DMR MOBILE RADIOS

EMPOWER YOUR OPERATION

www.hytera-europe.com

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. With the ergonomic design, the four piano-style buttons make operations effortless. The AI-based noise cancellation ensures the HM6 series delivers superb clear audio 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 hassle of cables.

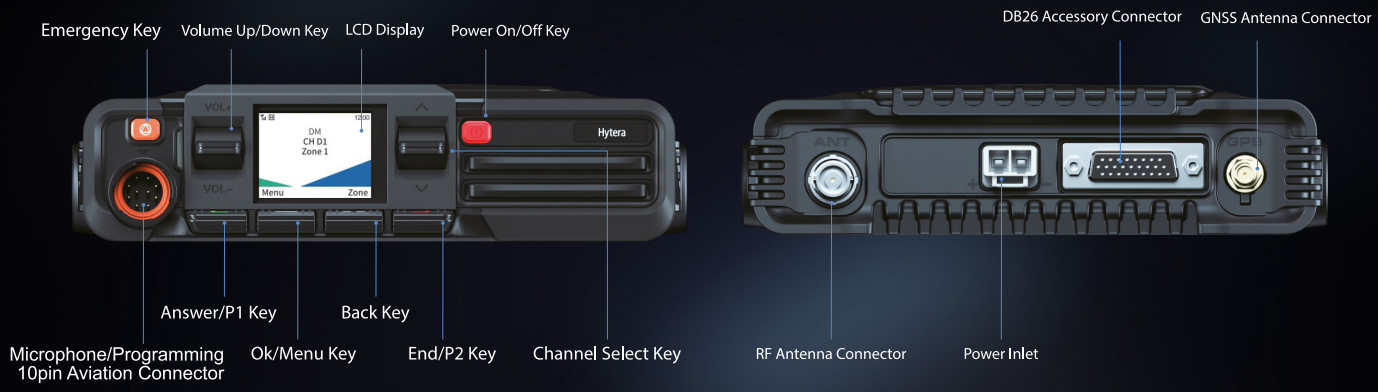
Unrivalled Versatility

In addition to reliable voice calls, the HM6 series provides various data services including text message, clarity transmission, emergency alarm, radio disable/enable, 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-810G standards, and IP54 for dust and water intrusion. The connection between the palm microphone and 10 pin aviation connector is a secure fit, while the curly cord has excellent stretching ability to get the maximum service life.

APPEARANCE



Smooth Communication

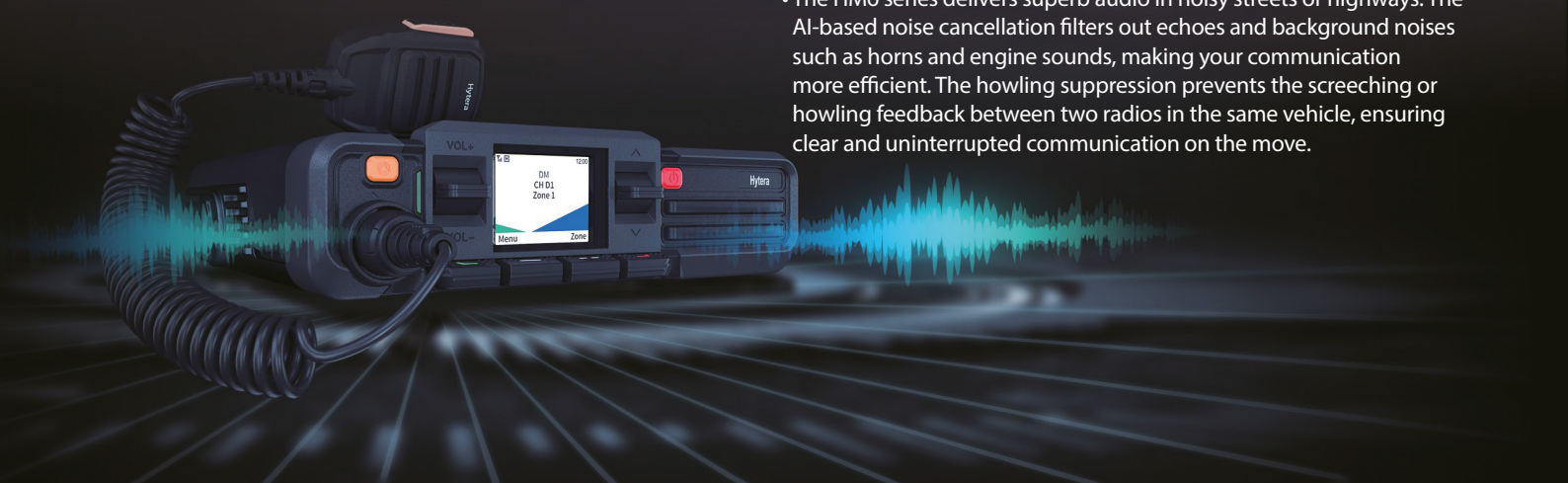
Thanks to the high RX sensitivity, the HM6 series can deliver clear and dependable communications even in areas where the signal is unstable or weak.

Digital and Analogue Compatibility

The HM6 series can operate in either analogue or digital mode, which is the ideal solution for you to migrate from analogue 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 horns and engine sounds, making 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.

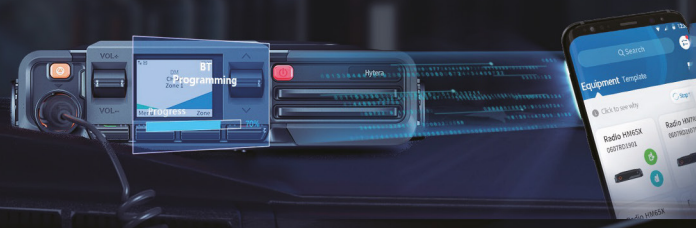


Innovative Design

Compact and lightweight, the HM6 series is easy to install, remove, or operate in the vehicle. The front panel of the HM685 adopts two-shot moulding to make the operation area more recognisable. The transflective 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, you can fully control the HM655, turn it on or off, switch channels or contacts, adjust the volume, or view messages.

**This function is only supported by HM655*

SPECIFICATIONS

GENERAL	
Frequency Range	400~470MHz
Channel Capacity	512
Zone Capacity	16
Channel Spacing	12.5kHz/20kHz/25kHz
Operating Voltage	13.6V±15%
Current Drain	Standby: <0.5A
	Receive: <2.0A
	Transmit 5W: <4A 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", 4Line
RECEIVER	
Sensitivity	Analog 0.18μV (12dB SINAD) 0.16μV (12dB SINAD) (Typical)
	Digital 0.18μV/BER5%
Selectivity	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): 6W
Max Audio Power Output	Internal (20 Ohm load): 7.5W 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)
American Military Standard	MIL-STD-810G
Dustproof & Waterproof	IP54
Humidity	Per MIL-STD-810G Standard
Shock & Vibration	Per MIL-STD-810G Standard
GPS	
GNSS	GPS, GPS+GLONASS, GPS+BDS
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 No Display (HM685)

- Remote Speaker Microphone With Display (HM655)

- 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 cable

- Antenna

- USB Programming/ downloading firmware upgrading cable

- Standard
- Optional

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