

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

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. 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.

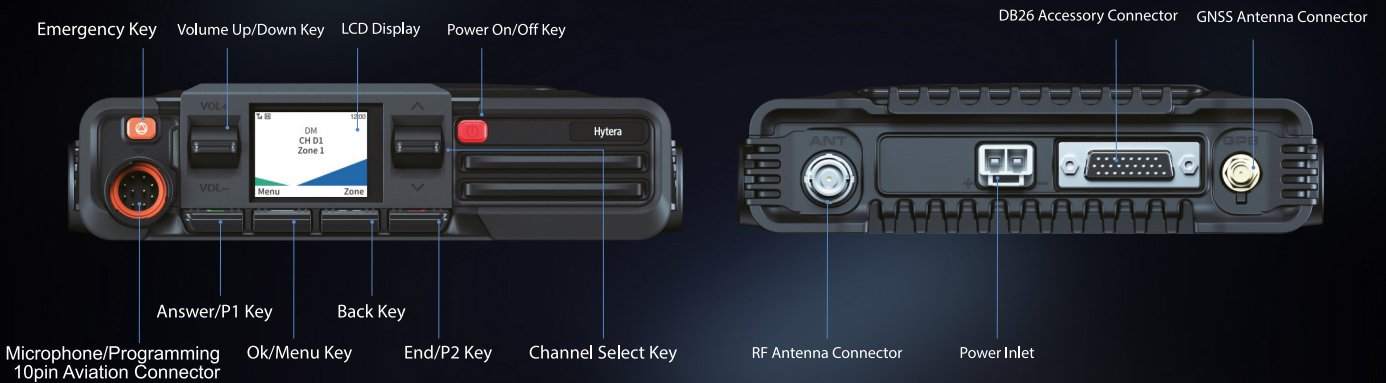


Superior Durability

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

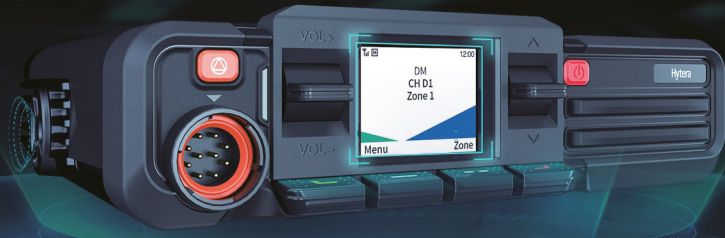
The HM6 series can operate in either analogue or digital mode, which is the ideal solution for you to migrate from analogue to digital with minimal disruption and investment.



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.





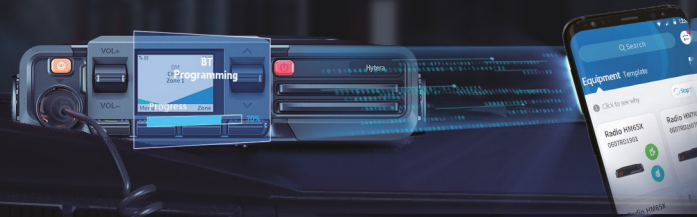
Innovative Design

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 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, 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 | UHF: 400-470 MHz, VHF: 136-174 MHz |
| Channel Capacity | 512 |
| Zone Capacity | 16 |
| Channel Spacing | 12.5kHz/20kHz/25kHz |
| Operating Voltage | 13.6V±15% Standby: <0.5A |
| Current Drain | 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", 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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