H-SERIES DMR RADIOS MPOWERED COMMUNICATIONS

Hytera was a founding member of the DMR Association and since then, Hytera has been a leading provider of DMR radios, and has continuously improved our products based on customer feedback.

The Hytera H-Series of DMR radios and repeater systems is the culmination of this experience and spirit of innovation. The HM652 Mobile Radio is the next-generation in creative style and functionality that elevates the industry standard in professional digital two-way radios.

The HM652 Mobile Radio is the new state-of-the art in mobile radios, providing a more efficient and reliable experience with loud and clear audio, intuitive user interface, and gateway connectivity between radio and data networks.

HM652/HM682 DMR Mobile Radio

THE NEW STANDARD OF QUALITY AND PERFORMANCE

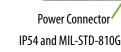
Hvtera

The Hytera HM6 Mobile Radios are a new generation of entry-level professional DMR mobile two-way radios designed to provide reliable voice and data communications for remote workers and fleet operations.

- Compact, lightweight, and easy to install
- Simple operation with the handheld control head (HM652)
- Al-based noise cancellation for industry-leading audio quality in loud vehicles
- High RX sensitivity ensures reliable communication
- 1.45", 6Line LCD display (HM682)







Optional GPS Antenna Port

Louder and Clearer Audio

Industry-leading audio quality through Al-based voice enhancement with deep learning ability that can accurately extract voice from background noise in real time. The howling suppression prevents feedback between two radios in the same vehicle, ensuring clear and uninterrupted communication on the move.

Multi-System Flexibility

The HM652/HM682 mobile radios can be deployed in Analog and Digital Conventional, DMR Tier II, and optional Hytera XPT Trunking (multi-site with license), and Roaming.



Greater Calling Flexibility

Supports Individual Calls (radio to radio, radio to dispatcher), Group Calls (one radio to many, dispatcher to many), All Call (broadcast call to all radios, transmit only), and Telephone Calls (with connectivity to PSTN, PABX or SIP networks).



Improved Worker Safety

The HM652/HM682 is designed for worker safety with an easy access emergency call button on the handset. Lone Worker prompts the user to press a key at preset intervals to indicate they are safe. Optional Priority Interrupt (with license) allows a dispatcher to interrupt existing calls with important emergency information, and a dispatcher can remotely enable and disable radios.



Durable and Rugged

IP54 compliant for water and dust ingress, and MIL-STD- 810 G for shock and humidity. The 10pin aviation connector for the Handheld Control Head is tight and secure, and coil cable has excellent stretching ability for long service life.



Enhanced GPS Location Tracking

HM6 models that support GPS report current location information to other radios, the dispatcher, or third-party applications in real time, enhancing the efficiency of visualized dispatch applications. GPS data is transmitted during voice calls for immediate location targeting, and GPS data is compressed to increase channel capacity and reduce hardware cost.



Greater Range

With high RX sensitivity, the HM652/HM682 delivers clear and dependable communication even in areas where the signal is unstable or weak.

Higher Security

Supports Digital End-to-End Encryption for voice and data. Optional advanced AES 2456 bit encryption is also available (optional with a license).



Handheld Control Head

The Handheld Control Head provides easy operation with a convenient location to control power, switch channels or contacts, adjust volume, or view messages. (HM652)



Analog or Digital Mode

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.

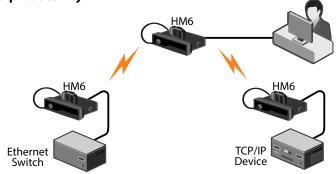
THE NEW STANDARD OF COVERAGE AND NETWORK FLEXIBILITY



In addition to reliable voice calls, the HM652/HM682 provides various data services including text messages, clarity transmission, emergency alarms, remote radio enable/disable, GPS location, and more. These features dramatically enhance safety and productivity.

Clarity Transmission

The Clarity Transmission feature provides a wireless data path between remote network devices and a central network management station. HM6 mobile radios function as compact gateway devices and provide wireless channels that transparently transmit data without any modi cation, and can be deployed in a variety of monitoring and industrial control processes. (available in future release)



STANDARD ACCESSORIES

SM25A1 (HM652) Palm microphone with operation buttons and LCD screen



SM16A1 (HM682) Palm microphone



PWC10 10'Vehicle power cable

BRK44 Mounting bracket and hardware







GPS04

GPS antenna

OPTIONAL ACCESSORIES

SM27W1 Bluetooth Remote Speaker Mic with operation buttons, LCD screen, and charging cable (for HM652 Blutooth models)



PS22002 External Power Supply



SM09D1 (SM09D2) External Speaker with 6' Power Cable (16.4' Power Cable)



PC47 Programming Cable with switch for use with multiple radios



Contact Hytera Canada or your local Hytera Dealer for more information on additional HM6 accessories.

SPECIFICATIONS

General		
Frequency Range	UHF 400-470MHz, VHF 136-174MHz	
Channel Capacity	512 Channels (256 Analog, 256 Digital)	
Zone Capacity	16 Zones with 64 Channels per Zone	
Channel Spacing	12.5kHz / 20kHz / 25kHz	
Operational Voltage	13.6V ±15%	
Current Drain	Standby: <0.5A Receive: <2.0A Transmit: 5W <4A, 45W UHF / 50W VHF <12A	
Weight	2lb, 6.8oz (1100g)	
Dimensions (HxWxD)	2 21/32" x 6 15/32" x 7 1/16" (42x164x154mm)	
Frequency Stability	± 0.5ppm	
Antenna Impedance	50Ω	
Display	Monochrome LCD on SM25A1 Handheld	
Bluetooth	BT 5.0 BLE+EDR	
	Receiver	
Digital Sensitivity	0.18µV (BER5 5%)	
Analog Sensitivity	0.16μV (Typical) (12dB SINAD) 0.18μV (12dB SINAD)	
Adjacent Selectivity	TIA-603: 60dB@12.5kHz, 70dB@20/25kHz ETSI: 60dB@12.5kHz, 70dB@20/25kHz	
Spurious Response Rejection	TIA-603: 75dB@12.5/20/25kHz ETSI: 70dB@12.5/20/25kHz	
Intermodulation	TIA-603: 75dB@12.5/20/25kHz ETSI: 70dB@12.5/20/25kHz	
Blocking	TIA-603: 00dB ETSI: 84dB	
Hum and Noise	40dB@12.5kHz, 43dB@20kHz, 45dB@25kHz	
Rated Audio Power Output	Internal (20 Ohm load) 3W, 8W Max External (8 Ohm load) 8W, 20W Max	
Rated Audio Distortion	≤3%	
Audio Response	+1 to -3dB	

Transmitter		
RF Power Output	UHF High Power 5-45W, VHF 5-50W	
FM Modulation	11K0F3E @ 12.5kHz 14K0F3E @ 20kHh 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 and Noise	40dB @ 12.5kHz, 43dB @ 20kHz, 45dB @ 20/25kHz	
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	-22°F to +140°F (-30°C to +60°C)	
Storage Temperature	-40°F to +185°F (-40°C to +85°C)	
ESD	IEC 61000-4-2 (Level 4) ±8kV Contact, ±15kV Air	
Dust and Water Ingress	IP54 Standard	
Humidity	Per MIL-STD-810H US Military Standard	
Shock and Vibration	Per MIL-STD-810H US Military Standard	
GPS (5 Satellites visible at nominal 130dBm)		
Time to First Fix Cold Start	<60 Seconds (Typical TTFF)	
Time to First Fix Hot Start	<10 Seconds (Typical TTFF)	
Horizontal Accuracy	<5 meters	

All specifications are subject to change without notice due to continuous development.

Ordering Information	
HM652-U1	UHF 400-470MHz, 5-45W
HM652-G-BT-U1	UHF 400-470MHz, 5-45W with GPS and Bluetooth
HM652-V1	VHF 136-174MHz, 5-50W
HM652-G-BT-V1	VHF 136-174MHz, 5-50W with GPS and Bluetooth



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