

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 flexible gateway radio network connectivity.



HM652 Mobile Radio

THE NEW STANDARD OF QUALITY AND PERFORMANCE



The Hytera HM652 is 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
- Al-based noise cancellation for industry-leading audio quality in loud vehicles
- High RX sensitivity ensures reliable communication





Louder and Clearer Audio

Industry-leading audio quality through AI-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 mobile radios can be deployed in Analog and Digital Conventional, DMR Tier II, and optional Hytera XPT Trunking (multi-site with license), and Roaming between repeater sites.



Greater Calling Flexibility

Supports Individual Calls (radio to radio, radio to dispatcher), Group Calls (one radio to many, dispatcher to many), and All Call (broadcast call to all radios, transmit only).



Improved Worker Safety

The HM652 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.



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.



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

HM652 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 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

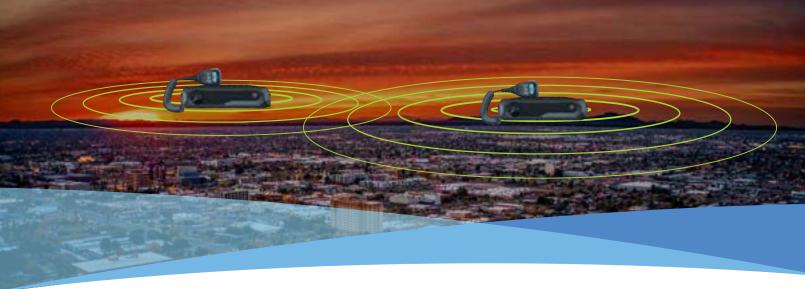
The Handheld Control Head with three progammable buttons provides easy operation with a convenient location to control power, switch channels or contacts, and adjust volume.



Built-In Bluetooth

HM652 models that feature Bluetooth support audio handset accessories to improve safety and productivity during in-vehicle communications.

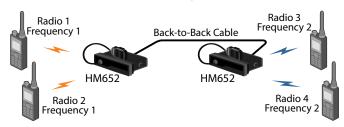
THE NEW STANDARD OF COVERAGE AND NETWORK FLEXIBILITY



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

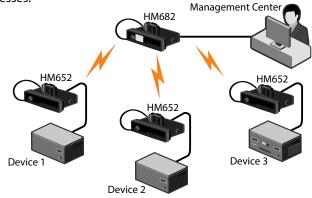
Back-To-Back

The HM652 can be deployed Back-to-Back to enable communication between analog and digital radios, or radios with different frequencies. Two HM652 radios can be deployed Back-to-Back, or one radio and a repeater can be used.



Clarity Transmission

The Clarity Transmission feature provides a wireless data path between remote network devices and a central network management station. HM652 mobile radios function as compact gateway devices and provide wireless channels that transparently transmit data without any modification, and can be deployed in a variety of monitoring and industrial control processes.



STANDARD ACCESSORIES

SM25A1 Palm microphone with emergency call and operation buttons and LCD screen



PWC10 10'Vehicle power cable



BRK44

Mounting bracket and hardware



GPS04

GPS antenna (for HM652 GPS models)



OPTIONAL ACCESSORIES

SM27W1

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



PS22002



SM09D1

External Speaker with 6' Power Cable



PC47

Programming Cable with switch for use with multiple radios



Contact Hytera US Inc or your local Hytera Dealer for more information on additional HM652 accessories.

SPECIFICATIONS

General		
Frequency Range	UHF 400-470MHz	
Channel Capacity	512 Channels (Analog or Digital)	
Zone Capacity	32 Zones with up to 32 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	
Weight	2lb, 6.8oz (1100g)	
Dimensions (HxWxD)	2 21/32" x 6 15/32" x 7 1/16" (42x154x164mm)	
Frequency Stability	± 0.5ppm	
Antenna Impedance	50Ω	
Display	Monochrome LCD on SM25A1 Handheld	
Bluetooth	BT 5.0 BLE+EDR	
Encryption (Optional)	Advanced end-to-end digital (128/266bit) DMRA encryption. Additional license required.	
	Receiver	
Digital Sensitivity	Receiver 0.18µV (BER5 5%)	
Digital Sensitivity Analog Sensitivity		
	0.18µV (BER5 5%) 0.16µV (Typical) (12dB SINAD)	
Analog Sensitivity	0.18µV (BER5 5%) 0.16µV (Typical) (12dB SINAD) 0.18µV (12dB SINAD) TIA-603: 60dB@12.5kHz, 70dB@20/25kHz	
Analog Sensitivity Adjacent Selectivity	0.18µV (BER5 5%) 0.16µV (Typical) (12dB SINAD) 0.18µV (12dB SINAD) TIA-603: 60dB@12.5kHz, 70dB@20/25kHz ETSI: 60dB@12.5kHz, 70dB@20/25kHz TIA-603: 75dB@12.5/20/25kHz	
Analog Sensitivity Adjacent Selectivity Spurious Response Rejection	0.18µV (BER5 5%) 0.16µV (Typical) (12dB SINAD) 0.18µV (12dB SINAD) TIA-603: 60dB@12.5kHz, 70dB@20/25kHz ETSI: 60dB@12.5kHz, 70dB@20/25kHz TIA-603: 75dB@12.5/20/25kHz ETSI: 70dB@12.5/20/25kHz	
Analog Sensitivity Adjacent Selectivity Spurious Response Rejection Intermodulation	0.18µV (BER5 5%) 0.16µV (Typical) (12dB SINAD) 0.18µV (12dB SINAD) TIA-603: 60dB@12.5kHz, 70dB@20/25kHz ETSI: 60dB@12.5kHz, 70dB@20/25kHz TIA-603: 75dB@12.5/20/25kHz TIA-603: 75dB@12.5/20/25kHz TIA-603: 75dB@12.5/20/25kHz ETSI: 70dB@12.5/20/25kHz ETSI: 70dB@12.5/20/25kHz	
Analog Sensitivity Adjacent Selectivity Spurious Response Rejection Intermodulation Blocking	0.18µV (BER5 5%) 0.16µV (Typical) (12dB SINAD) 0.18µV (12dB SINAD) TIA-603: 60dB@12.5kHz, 70dB@20/25kHz ETSI: 60dB@12.5kHz, 70dB@20/25kHz TIA-603: 75dB@12.5/20/25kHz ETSI: 70dB@12.5/20/25kHz TIA-603: 75dB@12.5/20/25kHz TIA-603: 75dB@12.5/20/25kHz ETSI: 84dB	
Analog Sensitivity Adjacent Selectivity Spurious Response Rejection Intermodulation Blocking Hum and Noise	0.18µV (BER5 5%) 0.16µV (Typical) (12dB SINAD) 0.18µV (12dB SINAD) TIA-603: 60dB@12.5kHz, 70dB@20/25kHz ETSI: 60dB@12.5kHz, 70dB@20/25kHz TIA-603: 75dB@12.5/20/25kHz ETSI: 70dB@12.5/20/25kHz TIA-603: 75dB@12.5/20/25kHz TIA-603: 00dB@12.5/20/25kHz TIA-603: 00dB ETSI: 84dB 40dB@12.5kHz, 43dB@20kHz, 45dB@25kHz Internal (20 Ohm load) 3W, 8W Max	
Analog Sensitivity Adjacent Selectivity Spurious Response Rejection Intermodulation Blocking Hum and Noise Rated Audio Power Output	0.18µV (BER5 5%) 0.16µV (Typical) (12dB SINAD) 0.18µV (12dB SINAD) TIA-603: 60dB@12.5kHz, 70dB@20/25kHz ETSI: 60dB@12.5kHz, 70dB@20/25kHz TIA-603: 75dB@12.5/20/25kHz TIA-603: 75dB@12.5/20/25kHz TIA-603: 75dB@12.5/20/25kHz TIA-603: 0dB@12.5/20/25kHz TIA-603: 0dB@12.5/20/25kHz TIA-603: 0dB ETSI: 84dB 40dB@12.5kHz, 43dB@20kHz, 45dB@25kHz Internal (20 Ohm load) 3W, 8W Max External (8 Ohm load) 8W, 20W Max	

Transmitter		
RF Power Output	UHF High Power 5-45W	
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	



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