H-SERIES DMR RADIOS

H-Series HP702-IS and HP782-IS

INTRINSICALLY SAFE DMR RADIOS

Hytera was a founding member of the DMR Association and was the first company to successfully deploy DMR Tier II and Tier III systems. Since then, Hytera has been a leading provider of intrinsically safe DMR radios and systems, and has continuously improved products based on customer feedback.

The H-Series intrinsically safe radios is the culmination of this experience and spirit of innovation. The HP702-IS and HP782-IS DMR handheld radios are the next-generation in safety and functionality that elevates the industry standards in professional digital two-way radios.







Hytera

HP702-IS

HP782-IS





Intrinsically Safe

HP702-IS and HP782-IS radios, batteries, and accessories are designed for use in hazardous areas with explosive gas and dust.



Higher Level of Ruggedness

The HP7-IS radios are fully compliant with the IP68 and MIL-STD- 810 G standards. They are dust proof, impervious to water jets, submersible to a depth of 2 meters for 4 hours, and can stand up to drop shock testing at 2 meters. The anti-magnetic speaker does not attract magnetic metal dust and shavings.



Louder and Clearer Audio

Hytera provides industry-leading audio quality through a large 36mm forward-facing optimized speaker that provides up to 93dB of loudness, and AI-based voice enhancement with deep learning ability that can accurately extract voice from noise in real time and decreases unwanted background noises as loud as 30db.

Water-porting technology quickly drains water out of speaker cavity to maintain audio clarity.



Enhanced Worker Safety

The HP7-IS radios are designed for worker safety with an easy access emergency button, emergency calling, and priority interrupt. Lone Worker prompts the user to press a key or speak to indicate they are safe. Man Down allows the radio to automatically enter emergency mode when the radio is inclined at a pre-set angle or remains motionless.

Longer Battery Life



The latest in lithium polymer technology is used to power the HP7-IS radios for excellent performance. The Intrinsically Safe battery delivers a shift life of over 24 hours on high transmit power with a duty cycle of 5/5/90.

Clear and Bright Display



The HP782-IS features a 2.4-inch, 240x320 HD TFT-LCD display with up to 10 lines of content and an intuitive nine-grid interface.

The HP702-IS features a 0.91-inch OLED display that shows the channel, signal strength, power status, power level, and BT status.

THE HP7-SERIES IS THE NEW STANDARD OF RADIO NETWORK PERFORMANCE





Enhanced GPS Location Tracking

The HP782-IS and HP702-IS radios with optional GPS can 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 can be transmitted during voice calls for immediate location targeting, and GPS data can be compressed to increase channel capacity and reduce hardware cost.



Higher Security

Supports Digital End-to-End and Over-the-Air Encryption for voice and data transmitted on digital channels to prevent eavesdropping.

Hardware encryption is implemented through a built-in encryption card. Software encryption uses the secure and reliable ARC4 and AES encryption algorithms. Radio authentication prevents unauthorized users from accessing the system. If a radio is lost or stolen, the system can Stun or Kill the radio to prevent unauthorized use.



Bluetooth and MicroSD Card

Optional built-in Bluetooth enables connectivity to wireless accessories. The MicroSD card provides additional capabilities like voice recording.



Multi-System Operation

The HP7-IS radios can be deployed in a wide variety of analog and digital radio networks, including Analog and Digital Conventional, XPT Trunking, DMR Tier II and Tier III Trunking, IP Multi-Site Connect, and DMR Simulcast Systems.



Extended Coverage and Connectivity

The HP7-IS radios extend radio range through increased Tx power efficiency, Rx sensitivity, improved antenna gain, and reduced attenuation. This produces a 25% increase in coverage distance and signal penetration through buildings. The enhanced coverage improves efficiency and reduces network infrastructure costs.

Two patented technologies and a voice buffer reduces packet loss during Rx handover for consistently clear calls and fewer dropped words.



Greater Calling Flexibility

A variety of calling modes provides the flexibility to communicate with any or all users. The HP7-IS radios support 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 (requires connectivity to PSTN, PABX or SIP networks).

THE HP782-IS THE NEW STANDARD OF FUNCTIONALITY AND USER EXPERIENCE



The HP782-IS radios feature a large HD TFT-LCD display that provides the necessary screen area for easily accessing a variety of information and functionality.

The following features are supported on the HP782-IS.

Simplified Navigation

The app icons are arranged in a nine-grid layout, making visual recognition more intuitive. The menu layers are simplified and streamlined so users can easily change settings and adjust features.

Clear Notifications and Information Display

On the home screen, the HP782-IS displays time and contact alias/ID, and can display two notifications simultaneously. The radio supports notifications of emergency calls, missed calls, call alerts, and new messages, and users can preview message contents.

The dialing interface supports selection of individual calls, group calls, PSTN / PABX phone dialing, fast dialing, and channel switching (CPS selection configuration).

The call interface displays call status (digital / analog, encryption status, recording status, call transfer, etc.), contact alias / ID, contact address, call duration, and speaker location information.

Multiple User Profiles

The HP782-IS supports four User Profiles that can be selected to set the corresponding tone, volume, vibration, and more. For example, profiles can match the environment, such as indoors or outdoors, or in a meeting.

Interface Switcher

The HP782-IS features an Interface Switcher that allows users to easily to switch between the home screen and up to three frequently used interfaces. This makes it easy to view or perform feature settings on these interfaces for efficient operations and to ensure rapid response in critical situations.

Dynamic Calls

The HP782-IS allows users to manually dial without switching the dialing mode. In the dialing interface, users can select a private, group, or PSTN/PABX call. In addition to the contact alias/ID, the radio also displays call status (including call mode, encryption status, recording status, and call forwarding status), contact address, and call duration.

Text Messaging and Conversational SMS

The HP782-IS supports sending private and group text messages. Messages can be typed freeform or the user can send and receive a variety of preprogrammed messages.

The short message is displayed in the form of a dialog box, along with the message and sender details. The interactive mode is more intuitive, and the message sending and receiving is simple and efficient.



STANDARD ACCESSORIES

INCLUDED WITH THE HP702-IS and HP782-IS

BC39

Belt Clip





UHF Stubby Antenna

or VHF Long Antenna



PS1014

Power Adapter





CH10L30 **Drop-In Single Unit Charger**

BL2801-Ex Intrinsically Safe 2850mAh Li-Ion IS Battery

OPTIONAL ACCESSORIES

Intrinsically Safe accessories include the LCY206 leather carrier, and all accessories noted with -P at the end of the part number.

COMBINATION EARPIECES

External earpieces that are used in combination with the ACN-02-P





ACN-02-P Mic and PTT button with VOX and 3.5mm Jack Receive-only Earpiece (IP54)

ES-01 **Receive-Only Earbud**



EA-01 Receive-Only Earpiece with Transparent Acoustic Tube



EH-01 Receive-Only C-Style Earloop

OTHER ACCESSORIES



EH-02 **Receive-Only Swivel Earpiece**

ALL-IN-ONE EARPIECES AND HEADSET

External earpieces and microphones that attach directly to the radio





EHN26-P C-style Earpiece with microphone and in-line PTT button

EAN21-P

3-wire Surveillance Earpiece with Transparent Acoustic Tube



MCL39 6-Radio Multi-Unit Charger



LCY026 Leather Carrying Case



ECN21-P Noise-Cancelling Headset with PTT and boom microphone



REMOTE SPEAKER MICROPHONES

Remote Speaker Mics provide easy access for audio, are water resistant, and attach directly to the radio.



SM26N1-P Palm PTT Mic with Speaker and emergency button (IP67)

SM26N2-P

Palm PTT Mic with Speaker and emergency button (IP54)





SPECIFICATIONS

	General
Frequency Range	UHF 350-470MHz , VHF 136-174MHz
Channel Capacity	1,024 Channels (512 Analog, 512 Digital)
Zone Capacity	64 Zones with 256 Channels per Zone
Channel Spacing	12.5kHz / 20kHz / 25kHz
Operational Voltage	7.4V (Rated)
Battery	2850mAh Li-Ion Polymer IS certified
Battery Life (5/5/90)	HP702-IS: 25 Hours, 29 Hours GPS disabled HP782-IS: 24 Hours, 28 Hours GPS disabled
Weight (with antenna and battery)	HP702-IS: 13oz (369g) HP782-IS: 13.7oz (389g)
Dimensions (H x W x D)	5 3/16" x 2 5/32" x 1 7/16" (132 x 55 x 36.5mm) without antenna
Frequency Stability	± 0.5ppm
Antenna Impedance	50Ω
Display	HP702-IS: OLED 0.91" Display HP782-IS: LCD 2.4", 320x240, 262,000 colors
Bluetooth	BT 5.0 BLE+EDR
Encryption (Optional)	Advanced end-to-end digital (128/266bit) DMRA encryption. Additional license required.
GPS (5 Satelli	tes 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
Receiver	
Digital Sensitivity	
Analog Sensitivity	0.16µV (Typical) (12dB SINAD)
Adjacent Selectivity	TIA-603: 60dB@12.5kHz, 70dB@20/25kHz ETSI: 60dB@12.5kHz, 70dB@20/25kHz
Adjacent Selectivity Spurious Response Rejection	
	ETSI: 60dB@12.5kHz, 70dB@20/25kHz TIA-603: 70dB@12.5/20/25kHz
Spurious Response Rejection	ETSI: 60dB@12.5kHz, 70dB@20/25kHz TIA-603: 70dB@12.5/20/25kHz ETSI: 70dB@12.5/20/25kHz TIA-603: 70dB@12.5/20/25kHz
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Spurious Response Rejection Intermodulation Hum and Noise Rated Audio Power Output	ETSI: 60dB@12.5kHz, 70dB@20/25kHz TIA-603: 70dB@12.5/20/25kHz ETSI: 70dB@12.5/20/25kHz TIA-603: 70dB@12.5/20/25kHz ETSI: 65dB@12.5/20/25kHz ETSI: 65dB@12.5/20/25kHz 40dB@12.5kHz, 43dB@20kHz, 45dB@25kHz 0.5W

RF Power OutputVHF High Power: 5W, VHF Low Power: 1W UHF High Power: 4W, UHF Low Power: 1WFM Modulation11K0F3E @ 12.5kHzFM Modulation12.5kHz @ 20kHz 16K0F3E @ 25kHz4F5K Digital Modulation12.5kHz Data only: 7K60FXD 12.5kHz Data and Voice: 7K60FXWConducted/Radiated Emission-36dBm <1GHz, -30dBm >1GHzModulation Limiting±2.5kHz @ 12.5kHzModulation Limiting±4.0kHz @ 20kHz ±5.0kHz @ 25kHzFM Hum and Noise40dB @ 12.5kHz, 45dB @ 25kHzAdjacent Channel Power60dB @ 12.5kHz, 70dB @ 25kHzAudio Response+1 to -3dBAudio Distortion≤3%Digital Vocoder TypeAMBE+2™EnvironmentalOperating Temperature-22°F to +140°F (-30°C to +60°C)Storage Temperature-40°F to +185°F (-40°C to +85°C)ESDIEC 61000-4-2 (Level 4) ±8kV Contact, ±15kV AirDust and Water IngressIP68 StandardHumidityPer MIL-STD-810 C/D/E/F/G StandardHP702-G-BT-IS-UvVHF 136-174MHz (Antenna 400-470MHz), 1-4W, with GPS and BluetoothHP782-G-BT-IS-UvUHF 350-470MHz (Antenna 400-470MHz), 1-4W, with GPS and Bluetooth		
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Adjacent Channel Power 60dB @ 12.5kHz, 70dB @ 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 IP68 Standard Humidity Per MIL-STD-810 C/D/E/F/G Standard Shock and Vibration Ordering Information HP702-G-BT-IS-Uv UHF 350-470MHz (Antenna 400-470MHz), 1-4W, with GPS and Bluetooth HP782-G-BT-IS-Uv UHF 350-470MHz (Antenna 400-470MHz), 1-4W, with GPS and Bluetooth HP782-G-BT-IS-Uv UHF 350-470MHz (Antenna 400-470MHz), 1-4W, with GPS and Bluetooth HP782-G-BT-IS-Uv UHF 350-470MHz (Antenna 400-470MHz), 1-4W, with GPS and Bluetooth		±5.0kHz @ 25kHz
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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 IP68 Standard Humidity Per MIL-STD-810 C/D/E/F/G Standard Shock and Vibration Per MIL-STD-810 C/D/E/F/G Standard Ordering Information HP702-G-BT-IS-UV UHF 350-470MHz (Antenna 400-470MHz), 1-4W, with GPS and Bluetooth HP702-G-BT-IS-UV UHF 350-470MHz (Antenna 400-470MHz), 1-5W, with GPS and Bluetooth HP782-G-BT-IS-UV UHF 350-470MHz (Antenna 400-470MHz), 1-4W, with GPS and Bluetooth HP782-G-BT-IS-UV UHF 350-470MHz (Antenna 400-470MHz), 1-4W, with GPS and Bluetooth	Adjacent Channel Power	60dB @ 12.5kHz, 70dB @ 25kHz
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 IP68 Standard Humidity Per MIL-STD-810 C/D/E/F/G Standard Shock and Vibration Per MIL-STD-810 C/D/E/F/G Standard Ordering Information HP702-G-BT-IS-Uv UHF 350-470MHz (Antenna 400-470MHz), 1-4W, with GPS and Bluetooth HP782-G-BT-IS-Uv UHF 350-470MHz (Antenna 146-164MHz), 1-5W, with GPS and Bluetooth HP782-G-BT-IS-Uv UHF 350-470MHz (Antenna 400-470MHz), 1-4W, with GPS and Bluetooth HP782-G-BT-IS-Uv VHF 136-174MHz (Antenna 400-470MHz), 1-4W, with GPS and Bluetooth	Audio Response	+1 to -3dB
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 IP68 Standard Humidity Per MIL-STD-810 C/D/E/F/G Standard Shock and Vibration Per MIL-STD-810 C/D/E/F/G Standard Ordering Information HP702-G-BT-IS-Uv UHF 350-470MHz (Antenna 400-470MHz), 1-4W, with GPS and Bluetooth HP702-G-BT-IS-V1 UHF 350-470MHz (Antenna 146-164MHz), 1-5W, with GPS and Bluetooth HP782-G-BT-IS-Uv UHF 350-470MHz (Antenna 400-470MHz), 1-4W, with GPS and Bluetooth HP782-G-BT-IS-Uv UHF 350-470MHz (Antenna 400-470MHz), 1-4W, with GPS and Bluetooth	Audio Distortion	≤3%
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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 IP68 Standard Humidity Per MIL-STD-810 C/D/E/F/G Standard Shock and Vibration Per MIL-STD-810 C/D/E/F/G Standard Ordering Information HP702-G-BT-IS-Uv UHF 350-470MHz (Antenna 400-470MHz), 1-4W, with GPS and Bluetooth HP702-G-BT-IS-V1 VHF 136-174MHz (Antenna 146-164MHz), 1-5W, with GPS and Bluetooth HP782-G-BT-IS-Uv UHF 350-470MHz (Antenna 400-470MHz), 1-4W, with GPS and Bluetooth HP782-G-BT-IS-Uv VHF 136-174MHz (Antenna 400-470MHz), 1-4W, with GPS and Bluetooth		Environmental
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ESD ±8kV Contact, ±15kV Åir Dust and Water Ingress IP68 Standard Humidity Per MIL-STD-810 C/D/E/F/G Standard Shock and Vibration Per MIL-STD-810 C/D/E/F/G Standard Ordering Information HP702-G-BT-IS-Uv UHF 350-470MHz (Antenna 400-470MHz), 1-4W, with GPS and Bluetooth HP702-G-BT-IS-V1 VHF 136-174MHz (Antenna 146-164MHz), 1-5W, with GPS and Bluetooth HP782-G-BT-IS-Uv UHF 350-470MHz (Antenna 400-470MHz), 1-4W, with GPS and Bluetooth HP782-G-BT-IS-Uv VHF 136-174MHz (Antenna 400-470MHz), 1-4W, with GPS and Bluetooth HP782-G-BT-IS-Uv VHF 136-174MHz (Antenna 400-470MHz), 1-4W, with GPS and Bluetooth	Storage Temperature	-40°F to +185°F (-40°C to +85°C)
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Shock and Vibration Per MIL-STD-810 C/D/E/F/G Standard Ordering Information HP702-G-BT-IS-Uv UHF 350-470MHz (Antenna 400-470MHz), 1-4W, with GPS and Bluetooth HP702-G-BT-IS-V1 VHF 136-174MHz (Antenna 146-164MHz), 1-5W, with GPS and Bluetooth HP782-G-BT-IS-Uv UHF 350-470MHz (Antenna 400-470MHz), 1-4W, with GPS and Bluetooth HP782-G-BT-IS-Uv UHF 350-470MHz (Antenna 400-470MHz), 1-4W, with GPS and Bluetooth HP782-G-BT-IS-Uv UHF 360-470MHz (Antenna 400-470MHz), 1-4W, with GPS and Bluetooth	Dust and Water Ingress	IP68 Standard
Ordering Information HP702-G-BT-IS-Uv UHF 350-470MHz (Antenna 400-470MHz), 1-4W, with GPS and Bluetooth HP702-G-BT-IS-V1 VHF 136-174MHz (Antenna 146-164MHz), 1-5W, with GPS and Bluetooth HP782-G-BT-IS-Uv UHF 350-470MHz (Antenna 400-470MHz), 1-4W, with GPS and Bluetooth HP782-G-BT-IS-Uv UHF 350-470MHz (Antenna 400-470MHz), 1-4W, with GPS and Bluetooth HP782-G-BT-IS-Uv VHF 136-174MHz (Antenna 400-470MHz), 1-5W, with GPS and Bluetooth	Humidity	Per MIL-STD-810 C/D/E/F/G Standard
HP702-G-BT-IS-Uv UHF 350-470MHz (Antenna 400-470MHz), 1-4W, with GPS and Bluetooth HP702-G-BT-IS-V1 VHF 136-174MHz (Antenna 146-164MHz), 1-5W, with GPS and Bluetooth HP782-G-BT-IS-Uv UHF 350-470MHz (Antenna 400-470MHz), 1-4W, with GPS and Bluetooth HP782-G-BT-IS-Uv VHF 136-174MHz (Antenna 400-470MHz), 1-4W, with GPS and Bluetooth	Shock and Vibration	Per MIL-STD-810 C/D/E/F/G Standard
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HP782-G-BT-IS-UV with GPS and Bluetooth VHF 136-174MHz (Antenna 146-164MHz), 1-5W,	HP702-G-BT-IS-V1	VHF 136-174MHz (Antenna 146-164MHz), 1-5W, with GPS and Bluetooth
	HP782-G-BT-IS-Uv	UHF 350-470MHz (Antenna 400-470MHz), 1-4W, with GPS and Bluetooth
	HP782-G-BT-IS-V1	VHF 136-174MHz (Antenna 146-164MHz), 1-5W, with GPS and Bluetooth

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