### Main Features (DMR/Analog FM/LTE)

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<tr>
<th>Data Service</th>
<th>User Security</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Message</td>
<td>User Security</td>
<td>Others</td>
</tr>
<tr>
<td>Status Message</td>
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<td></td>
</tr>
<tr>
<td>IWMS</td>
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### Main Features (TETRA/LTE)

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<td></td>
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<tr>
<td>IWMS</td>
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<td></td>
</tr>
</tbody>
</table>

### Optional Accessories
- Remote Video Microphone
- Remote Video Microphone with LCD
- Remote Speaker Microphone
- Covert Camera
- 4000mAh Smart Battery
- Fast Charger
- Wired Earset
- MCU 6-unit Charger for Multi-mode Radio
- Transparent Earpiece
- BT Heart Rate Earpiece
- Car Kit

### Included Accessories
- Smart Battery (2900mAh Li-polymer)
- Power Adapter
- Antenna
- Speaker
- Belt Clip
- Charger
- Color Circle

---

**Hytera Multi-mode Advanced Radio**

Hytera Communications Corporation Limited
Shenzhen, China
Tel: +86 755 2637 3909 Fax: +86 755 2653 7379 PPU: 3186167
Http://www.hytera.com  marketing@hytera.com

Hytera takes rights to change product design and specification. No liability or guarantee to Hytera shall be incurred for any errors contained in this literature. Hytera is a registered trademark of Hytera Communications Corp., Ltd. ©2017 Hytera Communications Corp., Ltd. All Rights Reserved.
The Hytera Multi-mode Advanced Radio is a revolutionary device in the private radio network industry. The first of its kind to offer a truly convergent platform for critical voice and broadband data services, this innovative development is a significant milestone. The radio supports multi-mode communication in different scenarios, whether it’s daily business operations or emergency response, broadband or narrowband, utilising the public or private network.

Offering the user a truly unified communication experience. The rich applications and high-level data security ensures the radio calmly handles any critical situation, improving co-operation and seamless communication.

The ergonomic design combined with the rugged chassis and touch-screen supports a new sensory experience to meet your diversified requirements. You can listen and see clearly, operate and transmit securely and utilise your improved situational awareness to respond and achieve quickly and effectively.

New Convergent Solution

Product Overview

Sense
The Hytera Multi-mode Advanced Radio delivers excellent situational awareness, smartly detecting the surrounding environment, providing alerts and acquiring data in real-time. Communicating continuously with back-end systems you can improve your operational effectiveness with instant feedback and informed decision making. The device will become an extension of your senses, assuring your safety and enhancing your response with on-demand services.

Seamless
Whenever and wherever you are operating, the Hytera Multi-mode Advanced Radio is by your side offering a great voice communication experience. Seamlessly switching between networks, the intelligent device manages multiple communication modes, presented in a dedicated, user-friendly interface, to ensure that you can enjoy a seamless communication experience while the handset takes care of network transitions.

Supervision
Security of personnel and your voice or data transmissions is critical no matter the application. The Hytera Multi-mode Advanced Radio is designed to provide holistic secure control or your communications, adopting an effective link between the radio and back-end systems. There is no need to worry about data security, device loss, evidence management or command availability as the handset delivers a brand-new encrypted control system.
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Interactive Design Features

Mission Critical UI Design
One hand operation
Quick press to view critical information
Rich information on the home page, customised favourites

Keys
Multi-functional control (press and rotate)
Switch between volume, channel and contacts

Smart Key
Function varies depending on application

PTT
Push-to-talk
Easy to use
Large button

Rugged and Durable
IP67
1.2 metre drop test
MIL-STD-810 C,D,E,F, G

Identification
Interchangeable colour bands to quickly identify handset

Front & Rear Camera
Rear 13MP camera supports 4K HD video

Screen Design
Dual-screen for power saving
Quick-view Top Screen
Clear information at a glance from multiple angles

Screen Reliability
Gorilla Glass III
Scratch-resistance, anti-impact, anti-fingerprint and oil resistance

Industrial LCD
Service life over 30,000h

Diverse Connections
Sensors: 6-axis E-compass, barometer, gyroscope, accelerometer, proximity sensor, ambient light sensor
Positioning systems: GPS, BDS, GLONSS
Wired connection: accessory pins, Wireless connection: Wi-Fi, NFC and RFID
Function & Technical Features

Open Secondary Development Interface to Enrich Services and Applications
An Application Development Kit (ADK) is available to third parties to allow organisations to customise their own applications. Consequently, all mobile resources can be integrated into this single work platform. Now it’s more than just a radio; it’s your smart mobile device.

Government and Public Security
Public Utilities
Airport
Port
Metro and Railway

Broadband and Narrowband Converged
The narrowband switches between digital and analogue, the broadband supports all mobile networks, and the two systems collaborate to guarantee a smooth communication.

Crystal Clear Critical Voice
The radio adopts advanced audio technology, such as multi-mic noise suppression, acoustic echo cancellation and wind noise suppression, to ensure the user can receive and transmit clear voice communications even in noisy environments.

Multiple Security Assurances
The device support authentication and both software and hardware encryption to prevent voice and data theft. The management system monitors the radio in real time and the device can be stunned, killed, or data erased if there is any user abnormality.

Quick Charging
The latest smart battery technology delivers quick charging, 3 times faster than regular batteries. 80% of the capacity can be charged in just 30 minutes, while full charge can be achieved in 1 hour.

Government
Public Security
Public Utilities
Airport
Port
Metro and Railway

Product Features

Efficient Batch Programming and Upgrade
Manage large quantities of radios concurrently to improve programming and upgrade efficiency.

Effective Data Collection and Security Analysis
Collect various radio data including parameters, configuration and diagnosis log to monitor radio and eliminate security threats.

Rich Third Party APIs
Provide the third party APIs for various service extensions such as cloud storage, streaming media, and interfacing with other systems.

Government
Public Security
Public Utilities
Airport
Port
Metro and Railway

Quick Configuration and OTAP Programming
Utilize the high-speed and reliable message channel between the radio and console to enable or disable multiple settings such as GPS, BT, Wi-Fi and NFC, and conduct OTAP of the radio through broadband.

Multiple Group and Permission Control
Support multiple roles and hierarchical group management to clearly classify the permission and work range for better collaboration.

Diversified Services
Besides programming and upgrades, the system also controls application installation and uninstallation, license authorization, remote notification to the radio and file transmission. If the radio is compromised, the system is able to remotely erase sensitive data to avoid information leakage.

The Hytera Smart Mobile Device Management (MDM) fully utilizes broadband capacity to facilitate your device management.

By traversing a variety of broadband networks, WiFi, 4G and LTE, this solution conducts batch programming, upgrades, permission control and data backup. As well as device administration and control, the Hytera MDM can also support accessory management such as Remove Video Microphones which also being compatible with your Hytera narrowband radios, improving traditional device management.

As users lead with wireless devices and supplement with wired solutions, in an increasingly broadband based network architecture, the Hytera MDM solution delivers concurrent operation, flexible remote-site control and timed push actions to greatly save operational time and costs for device management.

The Hytera MDM provides a full-life-cycle asset management system. The administrator can track the working status of any device across the fleet, determining critical device and user information 24/7.

Product Concept

Batch
Automatically manage multiple devices based on network concurrency.

Automatic
Set up task schedule for unattended operation to realize timed task automation and automatically create task report.

Traceable
Manage the radio full-life-cycle to track its configuration change. Even the radio is not at hand, its information can be tracked.

Compatible
Supports both broadband and narrowband converged radio and narrowband radio to realize an all-in-one management.
Function & Technical Features

Open Secondary Development Interface to Enrich Services and Applications

An Application Development Kit (ADK) is available to third parties to allow organizations to customize their own applications. Consequently, all mobile resources can be integrated into this single work platform. Now it’s more than just a radio; it’s your smart mobile device.

Broadband and Narrowband Converged
The narrowband switches between digital and analog, the broadband supports all mobile networks, and the two systems collaborate to guarantee a smooth communication.

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The latest smart battery technology delivers quick charging, 3 times faster than regular batteries. 80% of the capacity can be charged in just 30 minutes, while full charge can be achieved in 1 hour.

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Efficient Batch Programming and Upgrade
Manage large quantities of radios concurrently to improve programming and upgrade efficiency.

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Collect various radio data including parameters, configuration and diagnosis log to monitor radio and eliminate security threats.

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Provide the third party APIs for various service extensions such as cloud storage, streaming media, and interfacing with other systems.

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Utilise the high-speed and reliable message channel between the radio and console to enable or disable multiple settings such as GPS, BT, Wi-Fi and NFC, and conduct OTAP of the radio through broadband.

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Support multiple roles and hierarchical group management to clearly classify the permission and work range for better collaboration.

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Hytera Smart MDM – Smart and Secure, With Complete Control

Hytera Smart MDM – Smart and Secure, With Complete Control
## Specifications

### General Specifications

- **Dimensions (H x W x D):** 139.5 x 68 x 25.3mm
- **Weight (with antenna & battery):** ≤375g
- **AP Processor:** Qualcomm 8-core, 2.0GHz
- **Memory:****
  - Broadband: RAM: 3GB, ROM: 32GB eMMC
  - Expandable to 128GB with Micro SD card
- **Ports:** USB 2.0, 20PIN Accessory/Charging Port
- **Top Display:** 1.0" 128x96
- **Main Display:** 4.0" 800x480 Capacitive, Touch screen, Gloves Compatible
- **Front Camera:** 13MP, Auto Focus
- **Rear Camera:** 13MP, Auto Focus
- **Operating Voltage:** 7.4V(Rated)

### Battery

- **Standard:** 2500 mAh Li-polymer
- **Optional:** 4000 mAh
- **Battery Life:**
  - Standard Battery: 14h
  - Optional Battery: 20h
  - 18h (9/10:2h video)
- **Dimensions:** (H x W x D) 139.5 x 68 x 25.3mm

### Transceiver

<table>
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<tr>
<th>Item</th>
<th>DMR/Analog FM</th>
<th>TETRA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channel Spacing</td>
<td>25/20/12.5kHz</td>
<td>25kHz</td>
</tr>
<tr>
<td>TX Power</td>
<td>1W(class 4) &amp; 1.8W(class 3L)</td>
<td>1W</td>
</tr>
<tr>
<td>RX Sensitivity</td>
<td>≤-112dBm (-116dBm typ.)</td>
<td>25kHz</td>
</tr>
<tr>
<td>Inter-modulation</td>
<td>≥65dB</td>
<td>≥65dB</td>
</tr>
<tr>
<td>Blocking</td>
<td>≥70dB</td>
<td>≥66dB</td>
</tr>
<tr>
<td>Suppression of</td>
<td>≥70dB</td>
<td>≥66dB</td>
</tr>
<tr>
<td>Inter-modulation</td>
<td>≥65dB</td>
<td>≥62dB</td>
</tr>
<tr>
<td>RX Sensibility</td>
<td>≤-121dBm</td>
<td>≥69dB</td>
</tr>
<tr>
<td>Frequency Stability</td>
<td>≤0.5ppm</td>
<td>≥74dB</td>
</tr>
<tr>
<td>NRR</td>
<td>30dB(Static), 20dB(Non-static)</td>
<td>≥79dB</td>
</tr>
<tr>
<td>AEC</td>
<td>&gt; 60dB</td>
<td>&gt;50kHz ≥69dB</td>
</tr>
<tr>
<td>NRR</td>
<td>30dB(Static), 20dB(Non-static)</td>
<td>&gt;50kHz ≥74dB</td>
</tr>
<tr>
<td>AEC</td>
<td>&gt; 60dB</td>
<td>&gt;50kHz ≥79dB</td>
</tr>
<tr>
<td>NRR</td>
<td>30dB(Static), 20dB(Non-static)</td>
<td>&gt;50kHz ≥84dB</td>
</tr>
<tr>
<td>AEC</td>
<td>&gt; 60dB</td>
<td>&gt;50kHz ≥89dB</td>
</tr>
</tbody>
</table>

### Audio

- **Input:**
  - Triple Mic Noise Suppression
  - Wind Noise Suppression
  - Echo Cancellation

### Video and Imaging

#### Video File Types
- 3GPP(.3gp), MPEG-4(.mp4), QuickTime(.mov)
- WebM(.webm), Windows Media(.asf,.wmv), RealMedia(.rmvb, .rm), MPEG-PS(.mpg, .mpeg), MPEG-TS(.ts), AVI(.avi), Matroska(.mkv)

#### Video Recording Quality
- Front Camera: 1080P HD up to 30 frames per second(fps)
- Rear Camera: 4K HD

#### Image File Types
- JPEG(.jpg), GIF(.gif), PNG(.png), BMP(.bmp)

#### File Types
- MP3(.mp3), WAV (.wav), 3GPP(.3gp), MPEG-4(.mp4,.m4a), ATDS raw AAC(.aac), MPEG-TS(.ts), FLAC(.flac), MIDI(.midi, .xmf, .mxmf), RTTTL/RTX(.rtttl, .rtx), OTA(.ota), iMelody(.imy), Ogg(.ogg), Matroska(.mka), QCELP(.qcp), RealMedia(.ra), Windows Media(.wma), AC3(.ac3)

### Environment Performance

- **Dust and Water Proof:** IP67
- **Shock and Vibration:** MIL STD 810 C,D,E,F ,G
- **Operating Temperature:** -20°C - 60°C
- **Storage Temperature:** -40°C - 85°C

### System Function

- **Asset:** Asset management to set up archives for each radio.
- **Task Gantt Chart:** Visible Gantt chart to clearly display task progress.
- **Role Permission:** Different roles for administrators to conduct different management services.
- **Programming Template:** Programming template management to create parameter sets for radio configuration.
- **Work Station:** Unattended work station to process tasks and manage radios by batch, concurrently.
- **Report:** Generate reports for all-round tasks statistics and tracking.
### System Topology

![System Topology Diagram](image)

### Cloud Server Cluster (for Backup, Streaming Media)

- **Admin Client**
- **MDM Server**
- **User Client (Automatic)**
- **4G/LTE**
- **Multi-mode Radio**
- **Narrowband Radio**

### System Function

- **Asset**
  - Asset management to set up archives for each radio.
- **Task Gantt Chart**
  - Visible Gantt chart to clearly display task progress.
- **Role Permission**
  - Different roles for administrators to conduct different management services.
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  - Programming template management to create parameter sets for radio configuration.
- **Work Station**
  - Unattended work station to process tasks and manage radios by batch, concurrently.
- **Report**
  - Generate reports for all-round tasks statistics and tracking.

### Video and Imaging

- **Video File Types**
  - 3GPP(.3gp), MPEG-4(.mp4), QuickTime(.mov), WEBM (.webm), Windows Media (.asf, .wmv), RealMedia (.rm, .rmvb), MPEG-PS (.mpg, .mpeg), h.264(.mp4, .m4v), AAC (.aac), FLAC (.flac), MIDI (.midi, .xmf, .mxmf), RTTTL(RTXX), OTA (.ota), iMelody (.imy), Ogg (.ogg), Matroska (.mkv), QCELP (.qcp), RealMedia (.ra), Windows Media (.wma), AC3 (.ac3)
- **Input**
  - Triple Microphone
  - Wind Noise Suppression
  - Echo Cancellation

### Audio

- **File Types**
  - MP3 (.mp3), WMA (.wma), 3GPP (.3gp), M4A (.m4a), FLAC (.flac), WAV (.wav), MIDI (.mid), RealMedia (.rm, .rmvb), RTTTL (.rttl), OTA (.ota), iMelody (.imy), Ogg (.ogg), Matroska (.mkv), QCELP (.qcp), RealMedia (.ra), Windows Media (.wma), AC3 (.ac3)
- **Environment Performance**
  - Dust and Water Proof: IEC 60529-IP67
  - Shock and Vibration: MIL-STD-810 E CUL G
  - Operating Temperature: -20°C to 60°C
  - Storage Temperature: -40°C to 85°C

### Specifications

#### General Specifications

- **Dimensions** (H x W x D): 135 x 64 x 25.8mm
- **Weight** (with antenna & battery): ~375g
- **AP Processor**: Qualcomm 8-core, 1.5GHz
- **Memory**
  - RAM: 3GB
  - ROM: 32GB eMMC
  - Expandable to 128GB with Micro SD card
- **Ports**: USB 2.0, 20PIN Accessory/Charging Port
- **Top Display**: 1.0” 128x96
- **Main Display**: 4.0” 800x480
- **Sensors**
  - Proximity Sensor
  - Ambient Light Sensor
  - 6-axis E-Compass
  - Barometer
  - Gyroscope
  - Accelerometer
- **RAM**: 3GB
- **ROM**: 32GB eMMC
  - Expandable to 128GB with Micro SD card
- **Narrowband**: Expandable to 16GB with Micro SD card

#### Battery

- **Standard**: 2500 mAh Li-polymer
- **Optional**: 3600 mAh
- **Battery Life**
  - Standard Battery: 14h
  - 12-hour video: 5.5h
  - 20-hour video: 9.5h
  - 18-hour video: 8.25h

#### Video File Types

- 3GPP (.3gp), MPEG-4 (.mp4), QuickTime (.mov), WEBM (.webm), Windows Media (.asf, .wmv), RealMedia (.rm, .rmvb), h.264 (.mp4, .m4v), AAC (.aac), FLAC (.flac), MIDI (.midi, .xmf, .mxmf), RTTTL (.rttl), OTA (.ota), iMelody (.imy), Ogg (.ogg), Matroska (.mkv), QCELP (.qcp), RealMedia (.ra), Windows Media (.wma), AC3 (.ac3)

### Standards and Frequencies

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<td>25/20/15 MHz</td>
<td>25/10</td>
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<tr>
<td>TX Power</td>
<td>≥7.5W(824~849MHz)</td>
<td>≥10W</td>
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<td>RX Sensitivity</td>
<td>≤-112dBm</td>
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<td>&gt;60dB</td>
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#### Audio Specifications

- **Transmission**: TDM 48kHz, 32kHz, 16kHz, 8kHz
- **Line Output**: ≥80Ω, ≥2W(Rated)
- **Input/Output**: ≥80Ω, ≥2W(Rated)
- **Inter-modulation**: ≥65dB ≥62dB
- **RX Sensibility**: ≤-121dBm ≤-112dBm
- **Suppression of Spurious Response**: ≥64dB ≥64dB
- **Frequency Response**: ≥1kHz to 12kHz
- **Frequency Response**: ≥12kHz to 16kHz
- **Frequency Response**: ≥16kHz to 20kHz
- **Frequency Response**: ≥20kHz to 30kHz
- **Frequency Response**: ≥30kHz to 40kHz
- **Frequency Response**: ≥40kHz to 50kHz
- **Frequency Response**: ≥50kHz to 100kHz
- **Frequency Response**: ≥100kHz to 200kHz
- **Frequency Response**: ≥200kHz to 500kHz
- **Frequency Response**: >500kHz

#### Video Recording

- **Front Camera**: 1080P HD up to 30 frames per second(fps)
- **Rear Camera**: 4K HD

#### Environment Performance

- **Dust and Water Proof**: IEC 60529-IP67
- **Shock and Vibration**: MIL-STD-810 E CUL G
- **Operating Temperature**: -20°C to 60°C
- **Storage Temperature**: -40°C to 85°C
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Data Service

- Text Message
- Status Message
- MMS

User Security

- Emergency Alarm
- Positioning
- Scan and Roaming

Others

Main Features (TETRA/LTE)

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<td></td>
<td>Emergency Call</td>
<td>Sound Recorder</td>
</tr>
</tbody>
</table>

Data Service

- Text Message
- Status Message
- MMS

User Security

- Emergency Alarm
- Positioning

Others

Included Accessories

- Smart Battery (2900mAh Li-polymer)
- Belt Clip
- Charger
- Power Adapter
- Antenna
- Lanyard
- Colour Circle

Optional Accessories

- Remote Video Microphone
- Remote Video Microphone with LCD
- Remote Speaker Microphone
- Covert Camera
- 4000mAh Smart Battery
- Fast Charger
- Wired Earset
- MCU 6-unit Charger for Multi-mode Radio
- MCU 6-unit Charger for RVM
- Transparent Earpiece
- BT Heart Rate Earpiece
- Carkit

Further information can be found at: www.hytera.co.uk

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