

# ENHANCED BUSINESS TWO-WAY RADIO BP51X/BP56X

STAY CONNECTED, STAY PRODUCTIVE



BP51X

BP56X

# FEATURES TO KEEP YOU CONNECTED



## Smooth Analog-to-Digital Migration

BP5 Series can operate in digital or analog mode, which is the ideal solution for you to migrate from analog to digital with minimal disruption and investment. Moreover, BP5 Series provides 256 channels, making packet communication more flexible.



## Unrivaled Ruggedness

IP54 rated, BP5 Series stands up to water and dust. BP5 Series has an anti-abrasive and anti-scratching housing and durable keys being tested with 400,000 presses. Therefore, the users can use BP5 Series in any harsh environment.



# DESIGNS FOR EASE OF USE



## Clear and Loud Audio

With the professional noise cancellation algorithm adopted, BP5 Series can filter out the ambient noise. The 3-watt speaker can deliver the audio with the loudness up to 90dB. So the users can hear the voice clearly from each other even in an uproarious environment. Plus, when multiple BP5 Series radios are used together in close proximity, no annoying howling occurs.



## Voice Announcement

If the users are too busy to read the content on the screen or the model they just got has no screen, BP5 Series can give a voice announcement whenever the users perform an operation such as channel switch. This keeps their eyes on the task at hand.



## Communicate Throughout the Workplace

BP5 Series comes with the high-sensitivity RX module and high-efficiency monopole antenna for stronger signal penetration. Thus, the users can communicate smoothly even with low battery or in weak signal areas. Additionally, the antenna has the unique thickened thread design for great flexibility, better radiation efficiency, prolonged service life, and extended communication range.





### Outlast Your Shift

BP5 Series features an uncompromised, long-lasting battery which remains 80% capacity even after over 500 charges and discharges. Benefiting from powerful 10W charging, BP5 Series can be fully charged only in 1.8 hours; in other words, one-hour charging means 10-hour working time on a 5-5-90 duty cycle. The Type-C USB port on the radio allows the users to charge BP5 Series anywhere with a power bank. In addition, the battery is rugged enough to withstand extreme temperature.



### Purpose-built Design

The slim and lightweight design makes BP5 Series easy to hold and carry. Using the two-shot molding, the radio looks stunning and ensures better tactile feel. The color can be customized to match the working environment or uniforms.



### Trustworthy Quality

BP5 Series is built with Hytera quality. At Hytera, quality is everywhere, from the world's largest professional mobile radio (PMR) production line, to strict supplier management system, to stringent quality control process. All of these contributes to the durability and reliability of each radio.



# SPECIFICATIONS

| General   |  | BP51X  | BP56X   |
|---|--|--|---|
| Frequency Range                                 |  | UHF: 400-470 MHz; VHF: 136-174 MHz; UHF: 350-400 MHz | UHF: 400-470 MHz; VHF: 136-174 MHz  |
| Channel Capacity                                |  |  | 256   |
| Zone Capacity                                   |  | 4  | 8   |
| Zone Channel                                    |  |  | 16  |
| Channel Spacing                                 |  |  | 12.5kHz/20kHz/25kHz   |
| Operating Voltage                               |  |  | 7.4V  |
| Battery   |  |  | 1500mAh (Standard); 2200mAh (Optional)  |
| Battery Life (5/5/90 Duty Cycle, High TX Power) |  |  | Analog: 12h (1500mAh), 16h (2200mAh)<br>Digital: 16h (1500mAh), 21h (2200mAh) |
| Frequency Stability                             |  |  | ±0.5ppm   |
| Antenna Impedance                               |  |  | 50Ω   |
| Weight (with antenna & battery)                 |  | 210g   | 230g  |
| Dimensions (H x W x D)                          |  |  | 115 X 55 X 29.5mm   |
| BT ( optional )                                 |  |  | BT 5.0 BLE+EDR  |
| Display   |  | N/A  | 1.77 inch TFT, 160X128pixel   |
| Receiver  |  |  |   |
| Sensitivity                                     |  |  | Digital: 0.18μV / BER5%<br>Analog: 0.18μV (12dB SINAD)                        |
| Adjacent Channel Selectivity                    |  |  | TIA-603: 60dB@12.5kHz; 70dB@20/25kHz<br>ETSI: 60dB@12.5kHz; 70dB@20/25kHz     |
| Intermodulation                                 |  |  | TIA-603: 70dB@12.5/20/25kHz<br>ETSI: 65dB@12.5/20/25kHz                       |
| Spurious Response Rejection                     |  |  | TIA-603: 70dB@12.5/20/25kHz<br>ETSI: 70dB@12.5/20/25kHz                       |
| Blocking  |  |  | TIA-603: 80dB<br>ETSI: 84dB   |
| Hum and Noise                                   |  |  | 40dB@12.5kHz; 43dB@20kHz; 45dB@25kHz  |
| Rated Audio Power Output                        |  |  | 1W  |
| Rated Audio Distortion                          |  |  | ≤3%   |
| Audio Response                                  |  |  | +1 to -3dB  |
| Conducted Spurious Emission                     |  |  | <-57dBm   |
| Transmitter                                     |  |  |   |
| RF Power Output                                 |  |  | VHF: SW/1W; UHF: 4W/1W  |
| FM Modulation                                   |  |  | 11K0F3E@12.5kHz; 14K0F3E@20kHz; 16K0F3E@25kHz                                 |
| 4FSK Digital Modulation                         |  |  | 12.5kHz Data Only: 7K60FXD<br>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)<br>±8kV (contact); ±15kV (air)                        |
| Dust and Water Intrusion                        |  |  | IEC60529-IP54   |
| Humidity  |  |  | MIL-STD-810 G   |
| Shock and Vibration                             |  |  | MIL-STD-810 G   |

\*Radio only - Battery -20°C

## ACCESSORIES

STANDARD ACCESSORIES:

OPTIONAL ACCESSORIES:



Li-ion Battery  
1500mAh



MUC Rapid-rate  
Charger



Power Adapter  
12V/1A



Belt Clip



Strap



Antenna



Battery  
2200mAh



Power Adapter(USB)



Type-C Cable



C-Earset



Programming Cable



D-Earset



Earpiece with Transparent  
Acoustic Tube



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