

## Specifications

### General Specification

|                                       |                                      |
|---------------------------------------|--------------------------------------|
| Frequency Range                       | UHF:350-400MHz 400-480MHz 450-520MHz |
| Channel Capacity                      | 16CH                                 |
| Channel Spacing                       | 12.5KHz/25KHz                        |
| Operation Temperature                 | -25°C~ +60 °C                        |
| Operation Voltage                     | 7.5VDC                               |
| Antenna Impedance                     | 50Ω                                  |
| Microphone Impedance                  | 2.2KΩ                                |
| Frequency Stability                   | ±1.5 ppm                             |
| Battery Capacity                      | Li-ion DC7.4V 1600mAh                |
| Dimension<br>(height*width*thickness) | 108.4mm*53.6mm*31.6mm                |
| Weight                                | 129.7g(radio body)                   |
|                                       | 219.8g(with battery and antenna)     |

### Transmitter

|                             |                                     |
|-----------------------------|-------------------------------------|
| RF Power                    | H : 4 W L : 1.5 W                   |
| FM Modulation               | 25K/16KPF3E 12.5K/8KPF3E            |
| Harmonic                    | ≥ 70 dB                             |
| SNR (Signal-to-Noise Ratio) | ≥ 45 dB @ 25kHz ≤ 40 dB @ 12.5KHz   |
| Rated Radio Distortion      | ≤ 5%                                |
| Max.Frequency Deviation     | ≤ 5 kHz @ 25kHz ≤ 2.5 kHz @ 12.5KHz |

- Note: Data are from the ABELL laboratory, the actual use of the product may vary due to individual differences, use habits and environmental factors.  
Please refer to the actual use of the situation shall prevail.  
The above specifications are subject to change without notice due to development.

### Receiver

|                              |                                     |
|------------------------------|-------------------------------------|
| Sensitivity(12dB SINAD)      | ≤ 121dBm @ 25kHz ≤ 121dBm @ 12.5KHz |
| SNR(Signal-To-Noise Ratio)   | ≥ 45 dB @ 25kHz ≥ 40 dB @ 12.5KHz   |
| Adjacent Channel Selectivity | ≥ 65 dB @ 25kHz ≥ 60 dB @ 12.5KHz   |
| Intermodulation              | ≥ 60 dB @ 25kHz                     |
| Spurious Response Rejection  | ≥ 65 dB                             |
| Audio Output Power           | ≥ 1000 mW                           |
| Rated Audio Distortion       | ≤ 5%                                |

**ABELL**<sup>®</sup>  
DMR Solution Specialist



# A-320

## Commercial Analog Radio

- 4W RF Power
- Super Long Stand-by Time:108 hours
- New Generation Rugged and Reliable Design



Dealer Area



**ABELL INDUSTRIES CO., LTD**

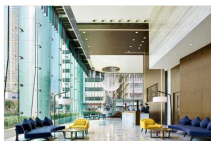
Website: www.abell.com.cn E-mail: sales@abell.com.cn



## Application



Restaurants



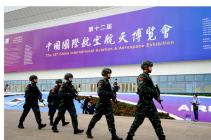
Hotel



Retails and Supermarkets



Logistic and Warehousing



Security



Hospital and Schools

## Technical Highlights

### Super long battery life

Super long stand-by time: 108 hours, no need of frequent battery charging. 5-5-90 usage time can be up to 18.7 hours.

### Super loud voice

You can handle the talk in a noisy environment.

### Componder

Advanced voice companding technology is used to make the voice clearer.

### Power switchable

It can work on both high power and low power. Users can use low power in close calls to extend the battery life, and use high power in long-distance calls to achieve longer coverage.

### Squelch tail elimination

Eliminates the harsh noise at the end of the call. Not only can the tail be eliminated when use sub-tone, but also when not use sub-tone. This function can be enable or disable by the programming software, and can be set independently for each channel.

### APC automatic frequency control

Adjust the receiving circuit for different frequencies, so that the sensitivity of each frequency point consistent, then the receiving performance of each frequency is optimized to the best.

### 50 CTCSS Tones

It provides 50 CTCSS tones for users.

### 104 DCS Tones

It provides 104 normal DCS tones, and 104 reversed DCS tones, with advanced coding and decoding protocol.

### APC automatic power control

The transmission circuit is adjusted for different frequencies, so that the RF power at each frequency point is consistent.

### 9 levels of squelch

It provides 9 levels of squelch, the user can adjust the level of squelch according to the need, the higher level of squelch choose, the stronger the noise suppression ability.

### Fast Scan

When the user wants to receive signals from different channels, the scanning function can achieve. In addition, with a priority channel setting, user can receive signals from this channel in priority, and after the user receives the signal, the it has a variety of reply methods for choice.

### Automatically battery save

Users can activate this function to extend battery life.

## Standard Accessories



Charger Base  
BC-51

Power Adapter

Li-ion battery  
AB-L1642 1600mAh

Belt clip

Antenna

Hand strap

## Optional Accessories



6-Way Power Supplier  
CA-6

Earphone  
AE-HS-G

Short Antenna

Speaker Microphone  
AM-MS

Leather case

Nylon case