



hearclear®

# HC40D

UHF Digital and Analog  
Two-Way Radio



## Hear Clear, LLC

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## ▶ HC40D SPECIFICATIONS

### General

|                                 |                                         |
|---------------------------------|-----------------------------------------|
| Frequency                       | 400~470MHz                              |
| Channel Capacity                | 199Channels, 2 Zones                    |
| Operating Voltage               | 7.4V                                    |
| Operating Temperature           | -25°C~+55°C                             |
| Store Temperature               | -40°C~+80°C                             |
| Weight                          | Around 270g with 1800mAh Li-ion battery |
| Output Power                    | High: 4W Low:1W                         |
| Battery Capacity                | 1800mAh                                 |
| Battery Life(5/5/90 Duty Cycle) | High Power 10-12 hours                  |

### Receiver

|                              |                                                   |
|------------------------------|---------------------------------------------------|
| Frequency Stability          | +/-1.0ppm                                         |
| Analog Sensitivity           | 0.25uV/-120dBm(20 dB SINAD)<br>0.18uV/-122dBm     |
| Digital Sensitivity          | 0.25uV/-119dBm (BER 5%)<br>0.4uV/-115dBm (BER 1%) |
| Inter-modulation             | TIA603C: 60dB                                     |
| Adjacent Channel Selectivity | TIA603C: 60dB@12.5KHz                             |
| Co-Channel rejection         | 12dB@12.5KHz                                      |
| Spurious Response rejection  | TIA603C: 65dB                                     |
| RX spurious radiation        | -57dBm@ <1GHz, -47dBm @> 1GHz                     |
| Blocking                     | 84dB                                              |
| Rated Audio Power            | 1W                                                |
| Audio Response               | +1dB~-3dB                                         |
| Rated Audio Distortion       | ≤3%                                               |

### Transmitter

|                        |                                                               |
|------------------------|---------------------------------------------------------------|
| Channel Spacing        | 12.5KHz                                                       |
| Frequency Stability    | +/- 1.0ppm                                                    |
| Output power           | Low: 1W, High: 4W                                             |
| FM Noise               | -40dB@12.5KHz                                                 |
| TX spurious radiation  | -36dBm@<1GHz, -30dBm@>1GHz                                    |
| Adjacent Channel Power | -60dB@12.5KHz                                                 |
| FM Modulation Mode     | 12.5KHz: 11K0F3E                                              |
| 4FSK Digital Mode      | 12.5KHz (data only): 7K60FXD<br>12.5KHz (data+voice): 7K60FXE |
| Modulation Limiting    | 2.5KHz@12.5KHz                                                |
| Free timeslot power    | -57dB                                                         |
| Audio Response         | +1dB~-3dB                                                     |
| Audio Distortion       | <3%@40% Deviation                                             |
| Digital Protocol       | DMR                                                           |
| Vocoder Type           | AMBE+2                                                        |



**Clear and Loud Audio**



**Analog-to-Digital Smooth Migration**



**Voice Announcement**



**Communicate Throughout the Workplace**



**AES256 Enhanced Voice Security**



**Purpose-built Design**

### Standard Accessories (Included with kit)



**Power Adapter  
12V/1A**



**Rapid-Rate  
Charger**



**Li-ion Battery  
1800mAh**



**Whip  
Antenna**



**Li-ion Battery  
2200mAh**



**Spring Loaded  
Belt Clip**



**Carry Strap**



**Stubby  
Antenna**



**Microphone**



**Surveillance  
Kit**

### Optional Accessories

**Full accessories catalog is available on our website**