



DIGITALIZED  
TWO-WAY RADIO

D6  
D6 D7  
D7



Applicable U.S. Military Specifications & IP Rating

From a small family into a system of a large company. WIDEBAND can transform your enterprise and make an employee interactions more smarter and safer. Our best-in-class digitalized audio and unrivaled data capabilities empowered people as its best. The D6 and D7 portable delivers unrivaled voice and data communication with integrated bluetooth audio and data, integrated GPS and best-in class audio that includes intelligent audio and customizable voice announcement features. Available in UHF and VHF frequency bands, the D7 features a 4-line monochrome display, full keypad, five programmable button, emergency button, Ip56 and FM intrinsically safe option.



# D6



## Basic Features: (D6/D7)

### Use Time-Division Multiple-Access (TDMA)

Digital technology which doubles the number on a single licensed 12.5 KHz channel. In compliance with the DMR digital protocol.

### Dual Mode Operation

Operate in both Digital & Analog Mode, allows easily migrate from analog to digital, providing clearer voice communication in digital mode, throughout the coverage area.

### Multi-Communication Operational

Versatile Calling. It supports Private call, group call and all call in digital mode.

### Emergency Alarm & Man Down (Optional)

Is an emergency alarm feature which transmits from the radio when the button is pused in case of an emergency. Man down is optinal but can transmit an emergency signal if the radio is potioned in a horizontal position for a long period of time.

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### Signaling

Radio comes with various signaling options. Built in in CTCSS/DCS signaling in analog mode & DTMF 2Tone, 5Tone.

### VOX (Optional)

Allows for Hands Free Communication when used with one of many appropriate accessories we carry for hands free communication.

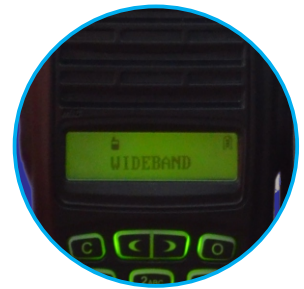
### PC Tuning & Firmware Update

PC tuning simplifies the maintenance and tuning of the radio by allowing both to be done via PC. Firmware can be updated easily

### Battery

Up to 40% longer battery duration

# D7



FC CE  RoHS COMPLIANT

**DMR**  
DIGITAL MOBILE RADIO ASSOCIATION



### Special Features

#### Radio Check:

This feature allows you to determine if another radio is active in a system without disturbing the user of that radio. No audible or visual notification is shown on the target radio. This feature is only applicable for subscriber aliases or ID's.

#### Remote Monitor:

Use the Remote Monitor feature to turn on the microphone of a target radio (subscriber alias or ID's only). No audible or visual indication is given to the target radio. You can use this feature to monitor, remotely, any audible activity surrounding the target radio. (Radio must be programmed to allow you to use this feature.

#### Scan List:

Scan lists are created and assigned to individual channel/group. Your radio scans for voice activity by cycling through the channel/group sequence specified in the scan list for the current channel/group.

#### Privacy:

If enabled, this feature helps to prevent eavesdropping by unauthorized users on a channel by the use of a software based scrambling solution. The signalling and user identification portions of a transmission are not scrambled. Your radio must have privacy enabled on the channel to send a privacy-enabled transmission, although this is not a necessary requirement for receiving a transmission. While on a privacy enabled channel, the radio is still able to receive clear (Unscrambled) transmissions.

Your radio supports two types of privacy:

- Basic Privacy
- Enhanced Privacy

Only one of the privacy types above can be assigned to the Radio

#### Call Alert Operation:

Call Alert paging enables you to alert a specific radio user to call you back when they are able to do so. This feature is applicable for subscriber aliases or ID's only and it is accessible through the menu via Contacts or manual dial.

#### Text Message Features:

Your radio is able to receive data, for example a text message, from another radio or an e-mail application.

#### Dual Tone Multi Frequency (DTMF):

The Dual Tone Multi Frequency (DTMF) feature allows the radio to operate in a radio system with an interface to telephone systems.

#### IP Site Connect:

This feature allows your radio to extend communication beyond the reach of a single site, by connecting to different available sites via an Internet Protocol (IP) network. When the radio moves out of range from one site and into the range of another, it connects to the new site's base station to send or receive calls/data transmissions. Depending on your settings, this is done automatically or manually.

#### Security:

You can enable or disable any radio in the system. For example, you might want to disable a stolen radio, to prevent the thief from using it, and enable that radio, when it is recovered.

### Specifications

#### General

Model	D7
Power Supply	7.2VDC ±20%
Operating Frequencies	136-174MHz, 400-470MHz
Number of Channels	32 Channels
Operating Temperature	-30°C~+60°C
Storing Temperature	-40°C~+85°C
Dimensions: H x W x D (mm)	113.5 x 54 x 33.5 with Li-ion Battery
Weight (gm)	270g (estimate)
Battery Life	10 hours: Analog (1700mAh) 14 hours: Digital (1700mAh)
Dust-Protection and Water Resist	IP65

#### Transmitter

Frequency Stability	+/- 1.0ppm
Power Output	1W(Low)/4 (High)
Channel Spacing	12.5KHz
Modulation Limiting	±2.5kHz@12.5kHz, ±4kHz@20kHz, ±5kHz@25kHz
FM Hum & Noise	-40dB at 12.5KHz
Conducted/Radiated Emission	-36dBm<1GHz, -30dBm>1GHz
Adjacent Channel Power	-60dB at 12.5KHz
Adjacent Transient Channel Power	-50dB at 12.5KHz
FM Modulation Mode	12.5KHz:
4 FSK Digital Mode	12.5KHz(Data only):7K60FXD 12.5KHz(Data+Voice):7K60FXE
Modulation Maximum Deviation	2.5KHz at 12.5KHz
Non-Active Slot Power	-57dBm
Audio Response (300-3000Hz)	+1 to -3dB
Audio Distortion	<3%

#### Receiver

Analog Sensitivity	0.35uV/-116dBm(20 dB SINAD) 0.22uV/-120dBm(Type)
Digital Sensitivity	0.3uV/-117.4dBm(BER 5%) 0.7uV/-110dBm(BER 1%)
Intermodulation	TIA603C : 70dB ESTI : 65dB
Adjacent Channel Selectivity	TIA603C : 70dB at 12.5KHz ETSI: 60dB at 12.5KHz
Co-Channel Rejection	12dB at 12.5KHz
Spurious Response Rejection	TIA603C : 75dB ETSI : 70dB
Conducted Spurious Emission	-57dBm at <1GHz, -47dBm at 1GHz
Blocking	84dB
Rated Audio Power	1W
Audio Response	+1dB~-3dB
Radio Audio Distortion	3%(Type)

#### Applicable U. S. Military Specifications & IP Rating

Standard	MIL 810F	
	Method	Procedure
Low Pressure	500.4	I, II
High Temperature	501.4	I, II
Low Temperature	502.4	I, II
Temperature Shock	503.4	I
Solar Radiation	505.4	I
Rain Blowing/Drip	506.4	I, III
Humidity	507.4	-
Salt Fog	509.4	-
Dust Blowing	510.4	I
Vibration	514.5	I
Shock	516.5	I, IV
Also meets equivalent MIL-STD-819-C, D and E		
<b>Ingress Protection Standard</b>		
<b>Dust and Water</b>	IP65 (Dust-protection and water resistant)	

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High Temperature	501.4	I, II
Low Temperature	502.4	I, II
Temperature Shock	503.4	I
Solar Radiation	505.4	I
Rain Blowing/Drip	506.4	I, III
Humidity	507.4	-
Salt Fog	509.4	-
Dust Blowing	510.4	I
Vibration	514.5	I
Shock	516.5	I, IV

Also meets equivalent MIL-STD-819-C, D and E

Ingress Protection Standard	
Dust and Water	IP65 (Dust-protection and water resistant)

**STANDARD:**



Li-Ion Battery



Desktop Charger



Belt Clip



Antenna



Strap



AC Adapter

**OPTIONAL:**



WHM-100



WEP-0201 VOX



WAC-0425

**WIDEBAND** is a company of firsts with a rich and strong heritage of innovation. We continue to invent what's connecting people, in delivering mobility and making technology personal. Being a Versatile and Powerful two-way radio at a lower cost.

**WIDEBAND** merges the best of two-way radio functionality with digital technology, making the ideal communication solution that suits your business. You will increase productivity in a lower operating cost because of the enhanced features, increase capacity, integrated data applications, exceptional voice quality and extended battery performance.