

# Classic and Cost-effective

New Generation of Business Radio



**DMR**  
DIGITAL MOBILE RADIO ASSOCIATION

MODEL DH400

[www.caltta.com](http://www.caltta.com)



### Classic Design

Light dual-color fashion body, high-quality off-belt clip, classic knob layout, easy to operate.



### Loud and Clear Voice

2W high-power speaker, combined with optimized sound cavity and MIC noise-reduction algorithm, can make loud and clear sound with maximum efficiency, ensuring clear communication in noisy environments.



### Real-time Clock

Built-in clock module, the time will not reset during battery replacement.



### Long Battery Life

Based on digital power-saving technology, the radio can last for 18 hours in the analog mode and 25 hours in the digital mode (5:5:90 traffic model), fully meet the continuous working requirements of the front-line users.



### Digital and Analog compatibility

Support digital/analog mode, provide rich services such as short message, roaming, stun/revive, radio check, to help users work more efficiently.



### Longer Communication Distance

Carefully optimized RF circuit offers high receiving sensitivity of 0.16uV, combined with integrally formed helical antenna, it achieves longer-distance communication.



2500mAh





## Ruggedized Design

With 18pin waterproof accessory interface, the whole equipment reach IP65 protection level.



## Safe and Reliable

Lone worker and SOS alarm make user operation safe; basic voice encryption protects user call information



## Accessories



Antenna



Belt Clip



2500mAh Li-ion Battery



Desktop Charger



Power Adapter



Programming Cable



8-way Charger



C-Style Earpiece



Transparent Tube Earpiece

# Specification

General		Receiver	
Frequency	UHF1: 400-470MHz	Sensitivity (Analog)	0.16uV(12dB SINAD)
Channel Capacity	64*	Sensitivity (Digital)	0.16uV (5% BER)
Zone Capacity	4*		60dB@12.5KHz/70 dB@20/25KHz (TIA603A) -1T
Channel Spacing	12.5kHz/20KHz/25KHz	Adjacent Channel Selectivity	45dB@12.5KHz /70 dB@20/25KHz (TIA603D) -2T 60dB@12.5KHz /70 dB@20/25KHz ( ETSI )
Frequency Stability	±0.5ppm		70dB (TIA603D)
Operating Voltage	7.4V	Intermodulation	65dB (ETSI)
Battery Capacity	2500mAh		70dB (TIA603D)
Battery Life	Analog: 18 Hours Digital: 25 Hours (5:5:90 working cycle, high power transmission)	Spurious Rejection	70dB (ETSI)
Dimension (H x W x D)	116.5x55.5x37mm (with 2500mAh battery, without antenna)	Blocking	80dB(TIA603D) 84dB(ETSI)
Weight	About 275g (with 2500mAh battery and antenna)	Co-channel Rejection	-12~0 dB @12.5KHz/-8~0 dB @20/25KHz
Screen	N/A	Hum and Noise	-40 dB@12.5KHz /-43 dB@20KHz /-45 dB@25KHz
Vocoder	AMBE++	Rated Audio Power	0.5W
Layout	Top: volume/switch knob x1, channel knob x1, SOS key x1 Side: PTT key x1, programmable key x2,	Max Audio Power	2.0W
External Interface	18pin waterproof interface, support audio/programming	Rated Audio Distortion	≤3% (typical value)
Belt Clip Type	Offbelt quick release	Audio Response	+1~-3dB (TIA603D)
Real-time Clock	Support	Conducted Spurious Emission	-57dBm (TIA603D)
Roaming	Support	Environmental	
Encryption	Support 40/128/256bit basic private encryption	Operating Temperature	-30°C ~ +60°C
		Storage Temperature	-40°C ~ +85°C
		ESD	IEC 61000-4-2 (level 4) ±8kV (Contact) ±15kV (Air)
		Dust and Water Resistance	IP65
		Reliability	MIL-STD-810G
Transmitter			
RF Power Output (Low)	1 W		
RF Power Output (High)	4W (UHF1)		
FM Modulation	12.5KHz: 11K0F3E / 20KHz: 14K0F3E / 25KHz: 16K0F3E 12.5KHz Data Only: 7K60F1D&7K60FXD		
4FSK Digital Modulation	12.5KHz Voice Only: 7K60F1E&7K60FXE 12.5KHz Voice And Data: 7K60F1W		
Conducted Radiated Emission	-36dBm ≤1GHz ; -30dBm >1GHz		
Modulation Limiting	±2.5KHz @12.5KHz /±4KHz @20KHz /±5.0KHz @25KHz		
FM Hum and Noise	-40 dB@12.5KHz /-43dB@20KHz /-45 dB@25KHz		
Adjacent Channel Power	60 dB@12.5KHz /70 dB @20/25KHz		
Audio Distortion	≤3% (typical value)		
Audio Response	+1~-3dB(TIA603D)		



www.caltta.com sales@caltta.com  
12F/Building G2, International E-City, Nanshan, Shenzhen, China, 518052



General Disclaimer:  
The specifications in this document are in accordance with the applicable standard test. Due to the continuous technology development, Caltta may change the specifications without notice.