

## **CS600 and CS700 DMR portable radio Specifications**

### **Key Feature:**

1. Use Time-Division Multiple-Access (TDMA) digital technology which doubles the number of users on a single licensed 12.5kHz channel. Comply with the DMR digital protocol.
2. Operate in both Digital & Analogue mode, allows easily migrate from analog to digital.
3. Provides clearer voice communications in digital mode, throughout the coverage area.
4. Private call, group call and all call in digital mode.
5. Text messaging in digital mode.
6. Direct mode and Repeater mode.
7. Late Entry.
8. Integrates voice and data to increase operational efficiency.
9. Enhanced call management features include emergency, call alert, radio check, radio enable/disable.
10. Transmit admit criteria.
11. Build in CTCSS/DCS signaling in Analog mode.
12. Accessory connector incorporates USB and enhanced audio capability.
13. Tri-color LED Indicator for tx/rx status, calling, scanning.
14. Up to 1000 contacts in Digital mode.
15. Dual priority channel scan operates in both analogue/digital mode.
16. VOX (Optional)
17. Firmware can be updated easily to add new features.
18. Up to 40% longer battery duration.
19. IP65 Water Resistance & Dust Protector.

# Connect Systems Inc. CS600 and CS700 Digital and Analog Radio

## DMR Portable Terminal Specification

<b>General Specification</b>		
Model	D6000(Non Display)	D7000(Display)
Frequency	400~470MHz, 136~174MHz	
Channel Capacity	32	1000
Normal Operating Voltage	7.2V	
Operating Temperature	-30°C ~ + 60°C	
Store Temperature	-40°C ~ + 85°C	
Weight	270g (estimate) With Standard Li-ion battery	
Dimensions :H x W x D(mm)	113.5 X 54 X 33.5 With Standard Li-ion battery	
Dust-protection and water resistant	IP65	
Battery Life in 5/5/90 Operating Mode		
1700mAh Standard Li-ion battery	Analog: 10hours; Digital: 14hours	

<b>Receiver</b>	
Frequency	400 ~ 470MHz, 136 ~ 174MHz
Channel Spacing	12.5KHz
Frequency Stability	+ / - 1.0ppm
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 ETSI : 65dB
Adjacent Channel Selectivity	TIA603C : 65dB@12.5KHz ETSI: 60dB@12.5KHz
Co-Channel rejection	12dB@12.5KHz
Spurious Response rejection	TIA603C : 75dB ETSI : 70dB

## Connect Systems Inc. CS600 and CS700 Digital and Analog Radio

Conducted spurious emission	- 57dBm@ < 1GHz , - 47dBm @> 1GHz
Blocking	84dB
Rated Audio Power	1W
Audio Response	+ 1dB ~ - 3dB
Rated Audio Distortion	3% ( Type )

<b>Transmitter</b>	
Frequency	400 ~ 470MHz, 136 ~ 174MHz
Channel Spacing	12.5KHz
Frequency Stability	+ / - 1.0ppm
Power	Low Power : 1W , High Power : 4W
Hum and Noise	- 40dB@12.5KHz
Conducted, radiated spurious emission	-36dBm@<1GHz, -30dBm@>1GHz
Adjacent Channel Power	-60dB@12.5KHz
Adjacent Transient Channel Power	-50dB@12.5KHz
FM Modulation Mode	12.5KHz : 11K0F3E
4FSK Digital Mode	12.5KHz ( data only ) : 7K60FXD 12.5KHz ( data + voice ) : 7K60FXE
Modulation Maximum Deviation	2.5KHz@12.5KHz
Nonactive Slot Power	-57dBm
Audio Response	+ 1dB ~ - 3dB
Audio Distortion	3% ( Type )
Digital Protocol	ETSI TS 102 361-1, -2, -3
Vocoder Type	AMBE + 2™