



TP620

DMR PORTABLE RADIO

Working in the potentially harsh environments such as construction sites, harbors, manufacturing or petrochemical plants, etc., where need a reliable and durable two-way radio to guarantee safety and enhance working efficiency. DMR portable radio TP620 provide super audio quality, versatile functionality, durability, security and flexibility to solve problems confronted in the work area, creating great operating value.

EXIA EXIB
versions
available



TP620 DMR PORTABLE RADIO

KEY FEATURES AND BENEFITS

• Rugged Design

TP620 is strictly designed to meet IP67 and MIL-810 C/D/E/F/G standard, ensuring good performance in potentially harsh environments such as harbors, manufacturing plants, Construction sites, and etc.

• Durable Battery

Two-time slot transmission reduces transmit time in half and thus increases talk time longevity. 2000mAh battery supplied in standard package ensures at least 14 continuous working hours in analog mode and 16 hours in digital mode.

• Improved Audio Quality

Digital error-correction technology rejects noise and static, providing consistent audio quality throughout the coverage area and even in challenging low-lying areas. AMBE+2™ vocoder further improves speech communication. 1.6W audio output and a 40mm diameter powerful speaker ensure louder and crisper voice communication.

• Higher Channel Capacity

TP620 can work with a single repeater to achieve twice the traffic capacity without relicensing or rebanding, meaning two voice communications or one voice communication and one data transmission can transmit at the same time in one channel.

• Migrate at Your Own Pace

TP620 radio can operate in both analog and digital mode by channel switching or mixed mode scanning. TP620 can be used on existing analog system and allows you to make smooth migration into digital era at your own pace.

• Versatile Services

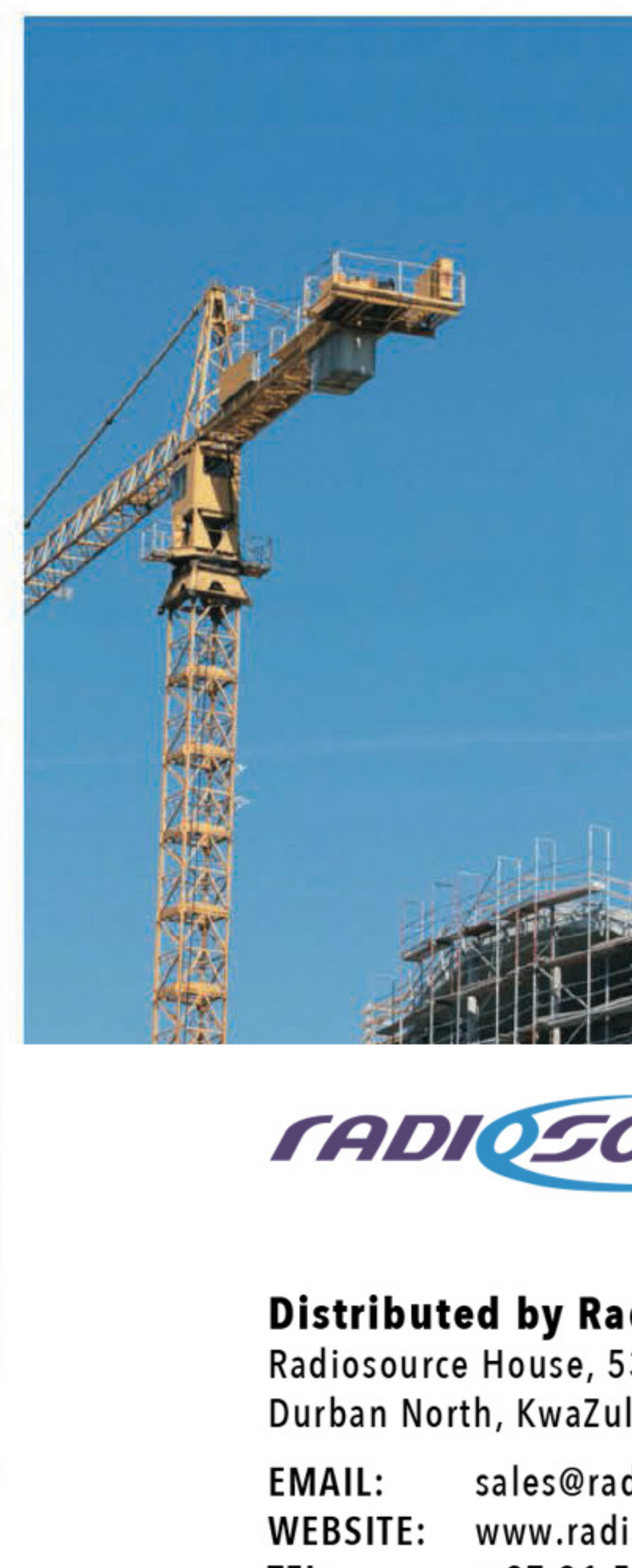
TP620 provides versatile services including individual call, all call, group call, emergency call, radio enable & disable, remote monitor, radio check, call alert, facilitating high-efficient communication and management.

• Text Message

When it is not convenient to have voice communication, text message offers a quiet communication choice. You can choose one of the maximum 50 preset messages to initiate a quick transmission or write a free-form message with keypad.

• Secure Communication

The 16-bit digital encryption technology ensures the communication can only be heard by preset group members.



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MILITARY STANDARDS 810

810C			810D			810E			810F		
APPLCABLE MIL-STD	METHODS	PROC/CAT	METHODS	PROC/CAT	METHODS	PROC/CAT	METHODS	PROC/CAT	METHODS	PROC/CAT	
Low Pressure	500.1	I	500.2	II	500.3	II	500.4	II	500.4	II	
High Temperature	501.1	I,II	501.2	I/AI,II/AI	501.3	I/AI,II/AI	501.4	I/Hot,II/Hot	501.5	I/HotAI,II/Hot(AI)	
Low Temperature	502.1	I	502.2	I/C3,II/C1	502.3	I/C3,II/C1	502.4	I/C3,II/C1	502.5	I/C3,I/C1	
Temperature Shock	503.1	—	503.2	I/C3AI	503.3	I/C1A3	503.4	I	503.5	I/C	
Solar Radiation	505.1	II	505.2	I	505.3	I	505.4	I	505.5	I	
Rain	506.1	I,II	506.2	I,II	506.3	I,II	506.4	I,III	506.5	I,III	
Humidity	507.1	II	507.2	II	507.3	II	507.4	—	507.5	—	
Salt fog	509.1	—	509.2	—	509.3	—	509.4	—	509.5	—	
Dust	510.1	I	510.2	I	510.3	I	510.4	—	510.5	I	
Vibration	514.2	VIII/F,CURVE-W	514.3	I/10,II/3	514.4	I/24	514.5	I/24	514.6	I/24	
Shock	516.2	I,II	516.3	I,IV	516.4	I,IV	516.5	I,IV	516.6	I,IV	

STANDARD ACCESSORIES



KTC-50CI



KBC-78Q



KTC-50CI



KBJ-09



KGC-03



Antenna

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General

Frequency Range	400~470MHz; 136~174MHz
Channel Capacity	TP620:32;TP660:1000
Zone Capacity	TP620:2;TP660:250
Channel Spacing	Analog:12.5KHz/25KHz; Digital:12.5KHz
Operating Voltage	7.5V DC±20%
Battery	2000mAH Li-ion
Dimension (with battery and without antenna)	113mm x54mmx34mm
Weight(with battery and antenna)	270g(TP620)/280g(TP660)

Transmitter

Frequency Stability	±1.5ppm
Power Output	1W/4W(UHF), 1W/5W(VHF)
Modulation Limiting	±2.5kHz@12.5kHz,±5.0kHz@25kHz
FM Hum and Noise	-40dB@12.5KHz,-45dB@25KHz
Conducted/Radiated Emission	-36dBm@<1GHz,-30dBm@>1GHz
Adjacent Channel Power	60dB@12.5KHz,70dB@25KHz
Audio Response	+1~-3dB
Audio Distortion	≤3%
4FSK Digital Modulation	12.5KHz(data only):7K60FXD 12.5KHz(data+voice):7K60FXE
FM Modulation Mode	12.5KHz:11KOF3E 25KHz::16KOF3E
Digital Protocol	ETSITS 102 361-1,-2,-3
Digital Vocoder Type	AMBE + 2™

Receiver

RF Power	VHF:5W/1W; UHF:4W/1W
Operating Current	≤1.8A
Modulation Sensitivity	16mV
Modulation Distortion	<10%
Spurious Response Rejection	≥70dB
Modulation Type	0.5KHZ ± 0.1KHZ(W),0.3KHZ ± 0.1
CTCSS/CDCSS	KHZ(N)

All specifications are tested according to applicable standards,
and subject to change without notice due to continuous development.



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