# KENWOOD

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# **TH-K20A/K40A**

### 144 /430 MHz FM Transceivers



A powerful communications tool in every sense, Kenwood's new TH-K20A/K40A radio offers 5.5 watts of RF output to ensure reliable performance. Numerous features ensure superb operating ease, yet it is small enough to fit comfortably in the palm. Both display and keypad are backlit for night-time use, and for added convenience everyday functions are pre-programmed to 11 keys with an additional PF key that can be assigned a custom function. Plus, the construction is rugged enough to stand up to the worst weather. Inside and out, the TH-K20A/K40A is fully equipped for clear communications — wherever and whenever needed.

#### Usefully Compact, Reliably Robust

Users will appreciate just how light (just 210g) and thin (54mm) this radio is. Yet there is no compromise on construction: it meets or exceeds the stringent IP54 dust and water intrusion standards as well as the MILSTD 810 C, D, E, F & G environmental standards, making it rugged enough for demanding outdoor use in bad weather.

#### 200 Channels with 6-Digit Memory Name

The TH-K20A/K40A has 200 memory channels – with a 6-digit Memory Name function to enable clear identification – plus 6 program scan memories, 1 call channel and 1 priority channel.

#### **High Sound Pressure for Audio Clarity**

Another feature that sets the TH-K20A/K40A apart is sound: it benefits from the audio expertise for which Kenwood is renowned. High sound pressure – which is not the same as volume – delivers a clarity that is unmistakable. Just listen once and you will appreciate what a difference it makes.

#### Li-ion Battery & Cradle Charger

This radio is supplied with a rechargeable Lithium-ion battery plus a convenient cradle charger.

#### **Direct Function Keys**

Everyday functions are pre-programmed to 11 of the 12 keys. The additional PF key can be assigned a custom function, making it possible to tailor the TH-K20A/K40A for optimum convenience. There is no need to use a menu: one key push provides direct access. And to prevent accidental operation, three types of key lock are provided.

#### **Internal VOX**

The TH-K20A/K40A offers convenient hands-free operation when using an optional headset. The internal VOX (voice-operated transmission) circuitry provides automatic PTT and a 10-level (Off/1-9) sensitivity adjustment to suit different ambient noise levels. VOX delay time is also adjustable.

#### PC Programmable with MCP-5A

By simply connecting the TH-K20A/K40A to a computer running Kenwood's free MCP-5A software with the optional PG-4Y cable, one can easily manage dozens of memory channels and memory names. This is also a convenient way to modify or copy settings.

#### Backlit LCD and Keypad

Backlighting for the large 13-segment LCD display is a welcome feature when picking memory names or changing settings. Similarly, keypad backlighting facilitates operation in low-light situations.

#### CTCSS & DCS Encoder/Decoder + Cross Tone Capability

Thanks to the built-in CTCSS (Continuous Tone Coded Squelch System) and DCS (Digital Code Squelch) encoder/ decoder, the TH-K20A/K40A can handle 42 CTCSS sub-tone frequencies plus 104 DCS codes. And one can set separate TX and RX signalling types so as to access a repeater that uses different encode/decode signalling.

#### Tone Alert (Bell)

When activated, this function will sound an audible alert and flash a bell symbol to indicate an incoming call. Both elapsed time and the number of missed calls are clearly displayed.

#### **Other Features**



## **Options**



Not all accessories are available in all markets. For availability, contact your nearest dealer. Battery case transmission output will decrease as time progresses. We recommend using low power when using the battery case.

# **Specifications**

		TH-K20A	TH-K40A		
GENERAL					
Frequency Range	TX RX	136 - 174 MHz 136 - 174 MHz	400 - 470 MHz 400 <del>-</del> 470 MHz		
Mode		F3E, F2D			
Antenna Impedance		50 Ω			
Operation Temperature Range		-20 °C ~ +60 °C			
Operating Voltage		DC 6.0 ~ 9.0 V (Standard Voltage DC 7.4 V)			
Frequency Stability		±2.5 ppm			
Microphone Impedance		2 kΩ			
Battery Life* (Figures approximate) with KNB-63L with KNB-65L with BT-16		High / Mid / Low 6 / 8.5 / 10.5 Hours 8 / 11.5 / 14 Hours 6.5 / 8 / 10 Hours			
Dimensions (W x H x D), Projections not included	Radio Only with KNB-63L	54 x 111.7 54 x 111.7			
Weight Radio Only with KNB-63L		approx. 138 g approx. 210 g			

	TH-K20A	TH-K40A		
High	5.5 W	5 W		
with BT-16 Mid Low	approx. 2 \ 1 \	N		
	Reactance modulation			
Within ±5 kHz				
Less than 5 % (300 Hz ~ 3 kHz)				
Double super heterodyne				
	1st IF: 38.85 MHz / 2nd IF: 450 kHz			
	Less than 0.16 µV	Less than 0.18 µV		
Less than 0.13 µV				
-6 dB -50 dB	More than 10 kHz Less than 28 kHz			
More than 400 mW (8 Ω / 10 % distortion)				
	with BT-16 Mid Low	High 5.5 W with BT-16 approx. Mid 2 V Low 1 V Reactance r Within : Less than 5 % (3 Double super 1st IF: 38.85 MHz Less than 0.16 µV Less than -6 dB More that -50 dB Less than		

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# Applicable MIL-STD & IP

Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures	MIL 810G Methods/Procedures
Low Pressure	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II	500.5/Procedure I, II
High Temperature	501.1/Procedure I, II	501.2/Procedure I, II	501.3/Procedure I, II	501.4/Procedure I, II	501.5/Procedure I, II
Low Temperature	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II	502.5/Procedure I, II
Temperature Shock	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II	503.5/Procedure I
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I	505.5/Procedure I
Rain	506.1/Procedure II	506.2/Procedure II	506.3/Procedure II	506.4/Procedure III	506.5/Procedure III
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4	507.5/Procedure II
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4	509.5
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III	510.5/Procedure I
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I	514.6/Procedure I
Shock	516.2/Procedure I, II, V	516.3/Procedure I, IV	516.4/Procedure I, IV	516.5/Procedure I, IV	516.6/Procedure I, IV

**International Protection Standard Dust & Water Protection** IP54

The 2-pin connector cover has to be connected. (Except AAA battery case)

### **Kenwood Electronics UK Ltd**

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Avionic sale and customer service Two-way radio and telecommunication technology



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