

KENWOOD

TK-2168/3168

Compact VHF/UHF FM Portable Radios

Setting the pace with a compact, simple and reliable design, Kenwood's TK-2168/3168 portables are the new benchmark of performance. With such features as priority scan, VOX, and MIL-STD 810 & IP54/55 weatherproofing, this unit is all set to work rain or shine.

COMPACT DESIGN

Compact enough to carry anywhere with ease, this smart new radio has a distinctively ergonomic form that's handy to hold and operate.

OPERATING EASE

The rotary and key controls on the TK-2168/3168 have been designed to provide the user with positive detent feedback even if carried and operated under-cover or in a pocket.

INTERNAL VOX/HANDS FREE READY

Enjoy the convenience of hands-free operation using any audio accessory. By simply talking, the internal VOX (voice-operated transmission) with 10-level sensitivity adjustment provides PTT action. VOX is also ideal for specialized job tasks and events where hands-free, constant and/or repetitive communications is necessary.

PRIORITY SCAN & TALK BACK

Scanning is a simple way to monitor multiple channels (16-channel capacity) and the TK-2168/3168 offers both standard and priority scan modes. Talk Back allows immediate response to a received call without having to manually search or change channels.

BUILT-IN VOICE SCRAMBLER

The TK-2168/3168 includes a voice inversion-scrambling feature that provides basic communications security against casual eavesdropping.

QT/DQT/DTMF

The industry standard tone/code squelching formats QT (CTCSS) and DQT (digital) provide system access and group segregation on shared frequencies. DTMF PTT ID is included for dispatch operations or for a simple remote control application. The DTMF decode capabilities include a selective call ID, transpond with ID, "wild card" group calling and radio stun. Also, selective calling has call alert tones and LED indications.

PROGRAMMABLE CALL ALERT TONES

The programmable call alert pattern, duration, tone and volume provide personalized and distinctive selective calling alerts.

PROGRAMMABLE FUNCTION KEYS

The three side PF Keys are programmable to any of the many functions available on the TK-2168/3168, permitting a customized fit for specific users.

HIGH-QUALITY AUDIO

Clear audio means confident communications. The TK-2168/3168 large speaker, full half-watt of audio output and tailored response characteristics provide optimum audio in even noisy environments.

8- TO 12-HOUR BATTERY PACKS

The KNB-25A NiCd 8-hour* pack is the economical standard for the TK-2168/3168 portables. The optional KNB-24L Lithium Ion 9-hour* pack offers the ultimate in compact, lightweight carrying comfort. For super high-capacity talk and standby time, the KNB-26N NiMH 12-hour pack is the powerhouse of choice.

*Battery life is based on 5% transmit-5% receive-90% standby duty cycles.

TOUGH & WATERPROOF

Built tough to take rough treatment in stride, these portables have passed the advanced IP54/55 and MIL-STD 810 "blowing rain" waterproof tests and meet/exceed eleven other stringent MIL-STD 810 C/D/E/F environmental standards. This proves that whatever conditions may be, the TK-2168/3168 is ready to answer the call.

OPTION BOARD

Despite its compact design, the TK-2168/3168 can be fitted with option boards for advanced operating of trunking service or security.



Options

■ KNB-24L

Li-ion Battery Pack
(1,400mAh)

■ KNB-25A

Ni-Cd Battery Pack
(1,200mAh)

■ KNB-26N

Ni-MH Battery Pack
(2,000mAh)

■ KBP-5

Battery Case

■ KSC-25

Rapid Charger

■ KSC-30

Charger for KNB-25A
and KNB-26N

■ KRA-22

VHF Low Profile
Helical Antenna

■ KRA-23

UHF Low Profile
Helical Antenna

■ KRA-26

VHF Helical Antenna

■ KRA-27

UHF Whip Antenna

■ KMC-17

Speaker Microphone

■ KMC-21

Speaker Microphone

■ KHS-1

Head Set with VOX/PTT

■ KHS-21

Head Set

All accessories and options may not be available in all markets. Contact an authorized Kenwood dealer for details and complete list of all accessories and options.

Specifications

	TK-2168	TK-3168
GENERAL		
Frequency range		
Type1	136-174MHz	440-480MHz
Type3	—	400-430MHz
Number of Channels		Max. 16
Channel Spacing		
Wide/Narrow	25, 30kHz/12.5, 15kHz	25kHz/12.5kHz
Channel Step		5, 6.25kHz
Operating Voltage		7.5V DC±20%
Battery Life (5-5-90 duty cycle with battery saver off)		
with KNB-24L (1400mAh)		Approx. 9 hours
with KNB-25A (1200mAh)		Approx. 8 hours
with KNB-26N (2000mAh)		Approx. 12 hours
Operating Temperature Range		-30°C ~ +60°C
	-10°C ~ +60°C when KNB-24L/26N in use	
Frequency Stability		±2.5ppm (-30°C ~ +60°C)
Antenna impedance		50Ω
Channel Frequency spread		
Type1	38MHz	40MHz
Type3	—	30MHz
Dimensions (W x H x D), Projections not included		
Radio Only		56 x 109.3 x 18.4mm
with KNB-24L		56 x 109.3 x 34.5mm
with KNB-25A		56 x 109.3 x 40.7mm
with KNB-26N		56 x 109.3 x 40.7mm
Weight (net)		
Radio Only		165g
with KNB-24L		290g (without antenna)
with KNB-25A		355g (without antenna)
with KNB-26N		400g (without antenna)

	TK-2168	TK-3168
RECEIVER (Measurements made per TIA/EIA-603)		
Sensitivity (12dB SINAD)		
Wide/Narrow		0.25µV/0.28µV
Selectivity		
Wide/Narrow		70dB/62dB
Intermodulation Distortion		
Wide/Narrow		65dB/60dB
Spurious Response		65dB
Audio output		500mW with less than 10% distortion
TRANSMITTER (Measurements made per TIA/EIA-603)		
RF Power output		
Hi/Lo	5W/1W	4W/1W
Spurious Response		70dB
Modulation		
Wide/Narrow		16K0F3E/11K0F3E
FM Noise		
Wide/Narrow	45/43dB	45/40dB
Audio Distortion		Less than 5%

Kenwood reserves the right to change specifications and features without prior notice.

Applicable MIL-STD

Military Standards	Methods/Procedures MIL-STD 810C	Methods/Procedures MIL-STD 810D	Methods/Procedures MIL-STD 810E	Methods/Procedures MIL-STD 810F
Low Pressure	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/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
Low Temperature	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II
Temperature Shock	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I
Rain	506.1/Procedure I, II	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, III
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I
Shock	516.2/Procedure I, II, V	516.3/Procedure I, IV	516.4/Procedure I, IV	516.5/Procedure I, IV

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