

TK-2180/3180

VHF/UHF FM Portable Radios

FleetSync®

GENERAL FEATURES

- 5 W (136-174 MHz) Models
- 5 W (450-520, 400-470 MHz) Models
- Conventional & LTR® Zones
- 12 Character Alphanumeric Aliases
- Backlit Dot Matrix LCD
- 3-Digit Sub-Display
- Function / Status LCD Icons
- RSSI Indicator
- Date & 12/24 Hour Time Clock
- Transmit / Busy / Call Alert / Warn LED
- 4 Front Panel PF keys
- 2 Side PF Keys
- Orange Emergency / AUX Key
- 12-Key DTMF / PF Keypad¹
- 500 mW Audio Power
- Enhanced Kenwood Audio
- Companded Audio
- VOX Ready
- Voice Inversion Scrambler Built-in
- Encryption / ANI Board Control
- Easy Option Port
- VGS-1 Voice Guide / Storage Option
- Emergency Call Features
- Emergency Man-Down Option
- DTMF Encode / Decode²
- Special Alert Tone Patterns³
- Call Key⁴
- Time Out Timer
- Busy Channel Lockout
- LCD Battery Status Indicator
- Low Battery Alert
- Battery Saver
- Weather-sealed ACC Connector
- MIL-Spec Speaker Mic Option
- Windows® Programming & Tuning⁵
- Windows® Firmware Uploading⁵

- Front Panel Test/Tune
- Cloning
- MIL-STD-810 C/D/E/F
- MIL-STD "Driven-Rain"
- IP-54/55 Water & Dust Intrusion
- Intrinsically Safe Option

CONVENTIONAL ZONES

- 512 Channels / 128 Zones⁶
- QT / DQT
- Two-Tone Decode⁷
- Single / Two-Tone Encode⁷
- Operator Selectable Tone⁷
- Dual Priority Scan
- Single & Multi-Zone Scan
- List Scan

TRUNKED ZONES

- 512 GID / 128 Zones⁶
- Kenwood LTR® Features⁸

FleetSync®

- FleetSync® or FleetSync® II⁹
- PTT ID Digital ANI
- Selective Call & Group Call
- Status Messaging
- Emergency Status
- Caller ID Display
- Short Text Messages¹⁰
- Power On/Off Status Messages
- PC Serial Interface

MDC-1200¹¹

- PTT ID Digital ANI
- Caller ID Display
- Emergency Status
- Radio Check
- Radio Inhibit

Two models available:
With or without keypad.
(Not actual size proportion)



Options

■ **KNB-33L**
Li-ion Rechargeable
Battery Pack (2000 mAh)



■ **KNB-54N**
Ni-MH Rechargeable
Battery Pack (2500 mAh)



■ **KNB-41NC**
Ni-MH Battery Pack
Intrinsically Safe (2500 mAh)



■ **KSC-32**
Tri-chemistry
Rapid Charger



■ **VGS-1**
Voice Guide &
Storage Unit



■ **KRA-22**
VHF Helical Antenna



■ **KRA-23**
UHF Helical Antenna



■ **KRA-26**
VHF Helical Antenna



■ **KRA-27**
UHF Whip Antenna



■ **KRA-16**
VHF Stubby Antenna



■ **KRA-17**
UHF Stubby Antenna



■ **KRA-25**
VHF High Gain Antenna



■ **KMC-41M**
MIL-STD & IP 54/55
Speaker Microphone



■ **KEP-1**
Heavy Duty Earphone



■ **KHS-11**
2-Wire Palm Mic
with Earphone



■ **KHS-12**
3-Wire Mini Lapel Mic
with Earphone



■ **KHS-14**
Lightweight Single
Muff Headset



■ **KHS-15-BH**
Heavy Duty
Behind-the-Head Headset



■ **KHS-15-OH**
Heavy Duty
Over-the-Head Headset



■ **KBH-10**
Low Profile Belt Clip



■ **KBH-11**
Belt Clip (2.5")



Specifications

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.

Model	TK-2180	TK-3180
GENERAL		
Frequency Range		
Type 1	136-174 MHz	450-520 MHz
Type 2		400-470 MHz
Number of Channels*		
Zone		Max. 128 per Radio
Ch/GID		Max. 250 per Zones
	(Max. 512 [Conv. Ch's + GID's] total per Radio)	
Channel Spacing		
Wide	25, 30 kHz	25 kHz
Narrow	12.5, 15 kHz	12.5 kHz
Battery Voltage	7.5 V DC ± 20 %	
Battery Life (5-5-90 duty cycle, during hi-power)		
with KNB-33L (2000 mAh)	Approx. 11 hours	
with KNB-54N (2500 mAh)	Approx. 14 hours	
Operating Temperature Range	-22 °F ~ +140 °F (-30 °C ~ +60 °C)	
	[+14 °F ~ +140 °F (-10 °C ~ +60 °C) when KNB-32N/33L in use]	
Frequency Stability	±0.00025 % (-22 °F ~ +140 °F)	
Antenna Impedance	50 Ω	
Channel Frequency Spread		
Type 1	38 MHz	70 MHz
Type 2		70 MHz
Dimensions (W x H x D), Projections not included		
Radio Only	2-5/16" x 5-3/8" x 7/8" (58 x 136 x 21.5 mm)	
with KNB-33L	2-5/16" x 5-3/8" x 1-5/16" (58 x 136 x 33 mm)	
with KNB-54N	2-5/16" x 5-3/8" x 1-9/16" (58 x 136 x 39.5 mm)	
Weight (net)		
Radio Only	9.17 oz. (260 g)	
with KNB-33L	14.1 oz. (400 g)	
with KNB-54N	19.75 oz. (560 g)	

Model	TK-2180	TK-3180
GENERAL		
FCC ID		
Type 1	ALH37323110	ALH37333110
Type 2	-	ALH37333120
IC Certification		
Type 1	282D-37323110	-
Type 2	-	282D-37333120
RECEIVER (Measurements made per TIA/EIA-603)		
Sensitivity (12 dB SINAD)		
Wide		0.25 μV
Narrow		0.28 μV
Selectivity		
Wide	70 dB	70 dB
Narrow	65 dB	63 dB
Intermodulation Distortion		
Wide/Narrow	70 dB (±50, 100 kHz)	
Spurious Response	70 dB	
Audio Output (8 Ω impedance)	500 mW with less than 3 % distortion	
TRANSMITTER (Measurements made per TIA/EIA-603)		
RF Power Output		
High	5 W	5 W
Low	1 W	1 W
Spurious Response		
Type of Emission		
Wide	16K0F3E	
Narrow	11K0F3E	
FM Hum & Noise		
Wide	45 dB	
Narrow	40 dB	
Audio Distortion		
Wide/Narrow	3 %	

Specifications are subject to change without notice, due to advancements in technology.

*Maximum capability depends on the number of programmed Zones and repeater channels.
FleetSync® is a registered trademark of JVC KENWOOD Corporation in the United States and/or other countries.
LTR® is a registered trademark of Transcript International.

Applicable MIL-STD & IP

Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures
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
International Protection Standard				
Dust & Water Protection	IP54/55			

footnotes from Front:

- Keypad models only.
- DTMF includes PTT ID, Emergency ANI, Manual Encode (keypad models), Auto-Dial List (32 numbers 16-Digits each) & Stun.
- Special Alert Tone Patterns operate for 2-Tone, DTMF, FleetSync® selective call decode.
- Call Key: 6 keys max.; operates for 2-Tone, DTMF and FleetSync® status encode.
- KPG-89D required: Windows®98/NT/2000/Me/XP compatible; English/Spanish screen languages.
- Conventional Zones: 512 Channels/128 Zones max. per radio; 250 CH max. per Zone.
Trunked Zones: 512 GID/128 Zones max. per radio; 250 GID max. per Zone.
- Two-Tone Decode (4 sets x 4 pairs each); Single / Two-Tone Encode (32 tones); Operator Selectable Tone (40 QTDT code pairs).
- Kenwood LTR Features include: GID Delete/Add, LTR Talk Around / Scan Revert Group Display, System Scan, Group Scan, Auto Search.
- FleetSync® & FleetSync® II are not compatible.
- Short Text Messages are radio stored & LCD displayed.
- Either MDC-1200 or FleetSync® can be activated per radio.

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