

KENWOOD

Listen to the Future



TK-2180/3180

VHF/UHF FM Portable Radios

FleetSync[®]
by KENWOOD

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

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

Options

<ul style="list-style-type: none"> ■ KNB-31A Ni-Cd Rechargeable Battery Pack (1700 mAh) ■ KNB-32N Ni-MH Rechargeable Battery Pack (2500 mAh) ■ KNB-33L Li-ion Rechargeable Battery Pack (1700 mAh) ■ KSC-32 Tri-chemistry Rapid Charger ■ VGS-1 Voice Guide & Storage Unit 	<ul style="list-style-type: none"> ■ 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 	<ul style="list-style-type: none"> ■ KMC-25 Speaker Microphone ■ KEP-1 Heavy Duty Earphone ■ KHS-11 2-Wire Palm Mic with Earphone ■ KHS-12 3-Wire Mini Lapel Mic with Earphone 	<ul style="list-style-type: none"> ■ 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-31A (1700 mAh)	Approx. 9 hours	
with KNB-32N (2500 mAh)	Approx. 14 hours	
with KNB-33L (1700 mAh)	Approx. 10 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-31A	2-5/16" x 5-3/8" x 1-9/16" (58 x 136 x 39.5 mm)	
with KNB-32N	2-5/16" x 5-3/8" x 1-9/16" (58 x 136 x 39.5 mm)	
with KNB-33L	2-5/16" x 5-3/8" x 1-5/16" (58 x 136 x 33 mm)	
Weight (net)		
Radio Only	9.17 oz. (260 g)	
with KNB-31A	18.70 oz. (530 g)	
with KNB-32N	19.75 oz. (560 g)	
with KNB-33L	14.1 oz. (400 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	70 dB	
Type of Emission		
Wide	16K0F3E	
Narrow	11K0F3E	
FM Hum & Noise		
Wide	45 dB	
Narrow	40 dB	
Audio Distortion		
Wide/Narrow	3 %	

Kenwood follows a policy of continuous advancement in development. For this reason specifications may be changed without notice.

*Maximum capability depends on the number of programmed Zones and repeater channels.

FleetSync® is a registered trademark of Kenwood Corporation.

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:

¹ Keypad models only.

² DTMF includes PTT ID, Emergency ANI, Manual Encode (keypad encode), Auto-Dial List (32 numbers 16-Digits each) & Stun.

³ Special Alert Tone Patterns operate for 2-Tone, DTMF, FleetSync® selective call decode.

⁴ Call Key: 6 keys max.; operates for 2-Tone, DTMF and FleetSync® status encode.

⁵ KPG-89D required: Windows®98/NT/2000/Me/XP compatible; English/Spanish screen languages.

⁶ 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.

⁷ Two-Tone Decode (4 sets x 4 pairs each); Single / Two-Tone Encode (32 tones); Operator Selectable Tone (40 QT.DQT code pairs).

⁸ Kenwood LTR Features include: GID Delete/Add, LTR Talk Around /Scan Revert Group Display, System Scan, Group Scan, Auto Search.

⁹ FleetSync® & FleetSync® II are not compatible.

¹⁰ Short Text Messages are radio stored & LCD displayed.

KENWOOD



ADS#43407 Printed in USA

Free Manuals Download Website

<http://myh66.com>

<http://usermanuals.us>

<http://www.somanuals.com>

<http://www.4manuals.cc>

<http://www.manual-lib.com>

<http://www.404manual.com>

<http://www.luxmanual.com>

<http://aubethermostatmanual.com>

Golf course search by state

<http://golfingnear.com>

Email search by domain

<http://emailbydomain.com>

Auto manuals search

<http://auto.somanuals.com>

TV manuals search

<http://tv.somanuals.com>