

# KENWOOD

## TK-2200/3200

Compact VHF/UHF FM Portable Radios

**Kenwood's compact model TK-2200/3200 professional grade job site portables, sets the standard on ruggedness, features and performance. The perfect solution for construction, retail, hospitality, warehousing, industrial, facilities management and rental fleet applications. The modern design contours present a functional and attractive form factor.**



### COMPACT DESIGN

The TK-2200/3200's ergonomic contours naturally fit the hand for a superbly comfortable hold. The non-slip elastomer channel knob and switch torque ensures positive selection and resists accidental changing.

### 2 & 8 CHANNEL MODELS

The TK-2200/3200 2-channel models satisfy the most common two-way requirements. The 8-channel models provide plenty of capacity for multiple channels or radio systems. Some users need fixed and itinerant traveling channels. A single channel frequency can be re-used with different encode ID's for selective calling or simple remote control applications (see DTMF and FleetSync®).

### CHANNEL SCAN & PRIORITY

Scanning is a simple way to monitor multiple channels and the TK-2200/3200 offers both standard and priority scan modes. Talk Back allows immediate response to a received call without having to manually search or change channels.

### PROGRAMMABLE FUNCTION KEYS

The two side keys, PF1 and PF2, are programmable for Monitor, Monitor Momentary, Scan, Scan + Temporary Delete, Calling Alert (PF1 Default), Key Lock, Super Lock, Scrambler, Squelch Off, Squelch Off Momentary (PF2 Default), Temporary Delete, or Autodial.

### SUPER LOCK

Managers can "Super Lock" all user controls (except PTT and volume) to prevent accidental channel changes and PF key operation.

The following are the easy steps to activate or deactivate this feature:

- To activate Super Lock: Hold the programmed Super Lock key for 4 seconds.
- The following controls are Super Locked\*:
  - Channel Selectable
  - Scan + Temporary Delete Key
  - Temporary Delete Key
  - Scrambler Key
  - Key Lock

\* Except Volume, PTT, Calling Alert, Monitor, Monitor Momentary, Squelch Off and Squelch Off Momentary, Autodial

- To deactivate Super Lock: With power off, press and hold the PF2 Key for 2 seconds and turn the radio power on.

### CHANNEL ANNUNCIATION

This dealer-enabled feature will announce the channel number each time the radio is powered up and after each channel change.

### INTERNAL VOX/HANDS-FREE READY

VOX (voice-operated transmission) is invaluable for specialized tasks or events that require repetitive hands-free communications. The radio itself provides automatic PTT action, so the user simply talks. VOX works with a Kenwood-compatible headset.

### BUILT-IN VOICE INVERSION SCRAMBLER

The built-in voice inversion scrambling feature provides basic communications security against casual eavesdropping (compatible with the inversion scramblers on other Kenwood radio models).

### FleetSync®, PTT ID

Kenwood's FleetSync® protocol offers "digital" PTT ID for FleetSync® capable dispatch systems. The PTT ID can be set per channel to encode one of eight Fleet List ID's used for selective calling of groups or individual units.

### QT/DQT/DTMF ENCODE & DECODE

The industry standard tone/code squelching formats QT and DQT 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. Both selective calling formats (FleetSync® and DTMF) have call alert tones and LED indications.

### CALLING ALERT

Pressing on the Calling Alert key while transmitting causes an alert tone to sound from the other radio's speaker. This is a useful function to signal staff in noisy environments. (One of ten alert tones can be programmed).

### TOUGH & WATER RESISTANT

Built tough for rugged work environments, the TK-2200/3200 has been designed to pass industrial drop tests, international IP54/55 water and dust intrusion tests and 11 categories of the U.S. Department of Defense MIL-STD 810 C, D, E & F environmental standards tests.
























### ACCESSORIES INCLUDED

- 14-Hour Ni-MH Battery Pack (18 Hours with Battery Saver On)
- 3-Hour Fast Charger ■ Spring Action Belt Clip ■ Removable Antenna

### OTHER FEATURES

- Wide/Narrow per Channel ■ Companded Audio ■ Selectable Microphone Sensitivity (2-level FPU Set) ■ Key Lock ■ Time Out Timer ■ Busy Channel Lockout ■ Battery Save ■ Low Battery Warning ■ Wireless Clone (Dealer function only)

## Options

<p>■ <b>KNB-29N</b> Ni-MH Battery Pack (1,500mAh)</p> 	<p>■ <b>KRA-16</b> VHF Stubby Antenna</p> 	<p>■ <b>KHS-7A</b> Single Muff Headset with In-line PTT</p> 	<p>■ <b>HMC-3</b> Headset with PTT Built-in Vox</p> 
<p>■ <b>KSC-31</b> Fast Charger (3-Hour)</p> 	<p>■ <b>KRA-17</b> UHF Stubby Antenna</p> 	<p>■ <b>KHS-8BL</b> 2-wire Palm Mic with Earphone (Black)</p> 	<p>■ <b>KHS-23</b> 2-wire Palm Mic</p> 
<p>■ <b>KRA-22</b> VHF Low Profile Helical Antenna</p> 	<p>■ <b>KMC-17</b> Speaker Microphone</p> 	<p>■ <b>KHS-8BE</b> 2-wire Palm Mic with Earphone (Beige)</p> 	<p>■ <b>KMB-21</b> Six Unit Charger Adapter (for six KSC-31 chargers; (chargers not included)</p> 
<p>■ <b>KRA-23</b> UHF Low Profile Helical Antenna</p> 	<p>■ <b>KMC-21</b> Compact Speaker Microphone</p> 	<p>■ <b>KHS-22</b> Behind-the-head Headset with PTT</p> 	<p>■ <b>KBH-10</b> Belt Clip</p> 
<p>■ <b>KRA-26</b> VHF Helical Antenna</p> 	<p>■ <b>KEP-2</b> Earphone Kit for KMC-17/21 (2.5mm plug)</p> 	<p>■ <b>KHS-7</b> Single Muff Headset</p> 	<p>■ <b>KWR-1</b> Water Resistance Bag</p> 
<p>■ <b>KRA-27</b> UHF Whip Antenna</p> 		<p>■ <b>EMC-3</b> Clip Microphone with Earphone</p> 	<p>■ <b>KLH-126</b> Nylon Case</p> 

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

Model	TK-2200 VHF	TK-3200 UHF
<b>GENERAL</b>		
Frequency Range	150-174 MHz	450-470 MHz
Number of Channels		
K Type		2
K2 Type		8
Channel Spacing		
Wide/Narrow	25, 30kHz/12.5, 15kHz	25kHz/12.5kHz
Channel Step	2.5, 5, 6.25, 7.5kHz	5, 6.25kHz
Operating Voltage	7.5V DC±20%	
Battery Life (5-5-90 duty cycle) with KNB-29N (1500mAh)	14 hours (Battery Saver Off) 18 hours (Battery Saver On)	
Operating Temperature Range	-22°F ~ +140°F (-30°C ~ +60°C)	
Frequency Stability	±2.5ppm (-22°F ~ +140°F)	
Antenna Impedance	50Ω	
Channel Frequency Spread	24MHz	20MHz
Dimensions (W x H x D), Projections not Included		
Radio Only	2.13" x 4.8" x 0.83" (54 x 122 x 21.1mm)	
with KNB-29N	2.13" x 4.8" x 1.30" (54 x 122 x 33mm)	
Weight (net)		
Radio Only	5.6oz (160g)	
with KNB-29N	12.7oz (360g)	
FCC ID	ALH36913120	ALH36923130
FCC Compliance	Parts 22/74/90	Parts 90/95

Model	TK-2200 VHF	TK-3200 UHF
<b>RECEIVER</b> (Measurements made per TIA/EIA-603)		
Sensitivity (12dB SINAD)		
Wide/Narrow	0.25μV/0.28μV	
Selectivity		
Wide/Narrow	70dB/60dB	
Intermodulation Distortion		
Wide/Narrow	65dB/60dB	
Spurious Response	65dB	60dB
Audio Output	500mW with less than 10% distortion	
<b>TRANSMITTER</b> (Measurements made per TIA/EIA-603)		
RF Power Output		
High/Low	2W/1W	2W/1W
Spurious Response	65dB	
Modulation		
Wide/Narrow	16K0F3E/11K0F3E	
FM Noise		
Wide/Narrow	45/40dB	
Audio Distortion	Less than 5%	

Kenwood reserves the right to change specifications and features without prior notice.  
FleetSync® is a registered trademark of Kenwood Corporation in the United States and/or other countries.

## 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

\*Rain (Drip/Blowing Rain): assumes that the supplied accessory jack cover or a Kenwood audio accessory is installed.

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