

# KENWOOD

Listen to the Future

## TK-2140/3140

VHF/UHF FM Portable Radios

Ultra-compact and designed to fit neatly in the hand, the TK-2140/3140 portables are designed with the user in mind. Weighing only 300g including the battery, these radios are packed with features and offer excellent reliability thanks to the tough die-cast chassis and weather-resistant construction. Small in size yet big on performance, the TK-2140/3140 are the stylish communicators from Kenwood.



### ALPHANUMERIC DISPLAY

The 12-digit, 3-digit alphanumeric dot matrix (5 x 8) LCD display provides clear legibility under all lighting conditions. The main 12 alphanumeric characters are for displaying such information as system/group name/channel name aliases. The 3-character sub-line can be programmed for channel or group number.

### WIDE BATTERY SELECTION

The TK-2140/3140 offer a lightweight Li-Ion battery (KNB-24L), ideal for low-temperature environments; a durable NiCd battery (KNB-25A); and a powerful NiMH battery (KNB-26N) for extra-long life.

### FLASH MEMORY

Flash memory permits updates, advanced feature sets and system architectural changes to be made electronically, without ever opening the unit.

### NEW BATTERY RELEASE LATCH DESIGN

New battery release structure has been adopted by placing movable parts on the battery for improved reliability.



### EMERGENCY CALL FUNCTION

The call function can be used for emergency signaling to send a help signal to a pre-determined person or group of people.

### HIGH-QUALITY AUDIO OUTPUT

TK-2140/3140 radios are equipped with an extra-large 36mm diameter speaker to deliver a 500mW of audio power for clear communication.

### LARGE CHANNEL CAPACITY (MAX. 250)

Synthesized channel frequency generation provides a maximum of 250 channels.

### BUILT-IN MODEM

Built-in modem on the TK-2140/3140 enables simple data transmission including Status Message and Short Data Message, as well as other DMS (Digital Message System) functions.

### COMPACT BODY & ROUNDED FORM

The ergonomic design of the TK-2140/3140 fits neatly in your hand, yet weighs only 300g even with the Li-Ion battery.

### PROGRAMMABLE FUNCTION

#### KEYS (PF keys)

Each key (except PTT) is programmable for any radio feature allowing the unit to be customized to fit user needs.

### LOW BATTERY ALERT

For extra convenience, a 4-step battery status indicator notifies the user immediately of the amount of charge remaining by visual indication (icons) or tone alert.

### MINIMUM VOLUME

The listener can hear the sender's voice even at the lowest volume setting to avoid missed calls.

### PC PROGRAMMING AND TUNING

### 5-TONE QT AND DQT SIGNALING

### OTHER FEATURES

- Built-in digital ANI
- Companded audio
- Multiple scanning
- MIL-STD 810 C/D/E
- IP 54/55 standard
- Embedded message
- MIL-SPEC speaker mic with programmable controls
- Password-protected programming and cloning
- Remote stun, revive and kill

Actual size

## Options



Not all accessories may be available. Please contact your dealer for details.

## Specifications

| Model  | TK-2140  | TK-3140                              |
|--|--|--------------------------------------|
| <b>GENERAL</b>   |  |                                      |
| Frequency range<br>Type 1<br>Type 3                          | 136 ~ 174MHz<br>—  | 440 ~ 470MHz<br>400 ~ 430MHz         |
| Number of channels   | Max.250  |                                      |
| Channel Spacing<br>Type 1<br>Type 3                          | 25kHz/20kHz/12.5kHz<br>—   | 25kHz/20kHz/12.5kHz<br>25kHz/12.5kHz |
| PLL channel stepping   | 5kHz/6.25kHz   |                                      |
| Antenna impedance  | 50Ω  |                                      |
| Operating voltage  | 7.5V DC±20%  |                                      |
| Battery life<br>with KNB-24L<br>with KNB-25A<br>with KNB-26N | (5-5-90 duty cycle with battery saver off)<br>Approx. 9h<br>Approx. 8h<br>Approx. 12h                                      |                                      |
| Operating temperature range                                  | -30°C ~ + 60°C when KNB-25A in use<br>-10°C ~ + 60°C when KNB-24L/26N in use   |                                      |
| Frequency stability  | ±2.5ppm  |                                      |
| Frequency spread<br>Type1<br>Type3                           | 38MHz<br>—   | 30MHz<br>30MHz                       |
| Dimensions<br>(W x H x D)                                    | 56 x 29.5 x 105mm with KNB-24L battery<br>56 x 35.7 x 105mm with KNB-25A battery<br>56 x 35.7 x 105mm with KNB-26N battery |                                      |
| Weight (net)   | 300g with KNB-24L battery<br>360g with KNB-25A battery<br>410g with KNB-26N battery  |                                      |
| Applicable standards   | EN300 086, EN300 113, EN300 219<br>IP54, IP55  |                                      |

| Model   | TK-2140  | TK-3140 |
|---|--|---------|
| <b>RECEIVER</b>                                       |  |         |
| Sensitivity<br>EIA 12dB SINAD<br>EN 20dB SINAD        | 0.28μV<br>0.70μV   |         |
| Adjacent channel selectivity<br>(25kHz/20kHz/12.5kHz) | 75dB/75dB/65dB   |         |
| Intermodulation                                       | 68dB   |         |
| Spurious response rejection                           | 70dB   |         |
| Audio output  | 500mW  |         |
| <b>TRANSMITTER</b>                                    |  |         |
| RF power output (Hi/Low)                              | 5W/1W  | 4W/1W   |
| Modulation Limiting                                   | ±5.0kHz at 25kHz<br>±4.0kHz at 20kHz<br>±2.5kHz at 12.5kHz |         |
| Spurious emission                                     | -36dBm≤1GHz<br>-30dBm>1GHz                                 |         |
| FM noise (EIA)<br>(25kHz/20kHz/12.5kHz)               | 45dB/45dB/40dB   |         |
| Microphone impedance                                  | 600Ω   |         |
| Modulation distortion                                 | Less than 3%   |         |

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

## Applicable MIL-STD

| Standard          | MIL 810C<br>Methods/Procedures | MIL 810D<br>Methods/Procedures | MIL 810E<br>Methods/Procedures |
|-------------------|--------------------------------|--------------------------------|--------------------------------|
| Low Pressure      | 500.1/Procedure I              | 500.2/Procedure I              | 500.3/Procedure I              |
| High Temperature  | 501.1/Procedure I, II          | 501.2/Procedure I, II          | 501.3/Procedure I, II          |
| Low Temperature   | 502.1/Procedure I              | 502.2/Procedure I, II          | 502.3/Procedure I, II          |
| Temperature Shock | 503.1/Procedure I              | 503.2/Procedure I              | 503.3/Procedure I              |
| Solar Radiation   | 505.1/Procedure I              | 505.2/Procedure I              | 505.3/Procedure I              |
| Rain              | 506.1/Procedure I, II          | 506.2/Procedure I, II          | 506.3/Procedure I, II          |
| Humidity          | 507.1/Procedure II             | 507.2/Procedure II             | 507.3/Procedure II             |
| Salt Fog          | 509.1/Procedure I              | 509.2/Procedure I              | 509.3/Procedure I              |
| Dust              | 510.1/Procedure I              | 510.2/Procedure I              | 510.3/Procedure I              |
| Vibration         | 514.2/Procedure VIII, X        | 514.3/Procedure I              | 514.4/Procedure I              |
| Shock             | 516.2/Procedure I, II, V       | 516.3/Procedure I, IV          | 516.4/Procedure I, IV          |

# CE0168



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