

A Whole New RELM of Possibilities



# ***KNG TMR***



## Transportable Mobile Radio



- ✓ Light Weight
- ✓ Battery Life >18 hours with 5/5/90 duty cycle
- ✓ Easily Transportable
- ✓ P25 Digital and Analog Modes
- ✓ Portable and Light Weight
- ✓ Mobile Programmability
- ✓ Multi-Mode Operation
- ✓ Long Battery Life
- ✓ Talkaround Mode
- ✓ Scan Mode
- ✓ Alpha-numeric Touch Screen Display





# Transportable Mobile Radio

## ADVANCED FEATURES

## FEATURES

### 2048 Channels, Dynamic Zones

Custom-tailored user zones can be programmed into the KNG TMR by radio users and can also be field changed or reprogrammed whenever necessary.

### USB or Mobile Programmability

Program the KNG TMR out in the field in minutes using an easy to use customize-able menu system, or simply plug in your laptop via USB port on the front of the unit.

### Mixed-mode Operation

Whether analog or digital, communicate effortlessly to either mode with RELM's Mixed-mode feature.

### APCO P25

The KNG TMR meets or exceeds APCO P25 specifications.

### Talk Around

This feature allows you to bypass or "talk around" a repeater for a direct connection.

### Channel/Priority/Zone Scan

Find an available channel for communications: scan channel, priority channel, or scan zones, one zone at a time.

### Custom Menu System

Our intuitive menu system gives you full control. Fully customize the menu to fit your everyday needs.

### MIL-STD 810 C/D/E/F

The KNG Portable has gone through rigorous testing and meets or exceeds military requirements.

### Alpha-numeric Touch Screen Display

The first of its kind, the KNG innovative color TFT touch screen display solves many issues seen in existing mobile radio control heads. Day or night, get all the information you need right at your fingertips.

### Portable Package with High Power

Only the KNG TMR offers 15 Watts of RF power in a small ruggedised case that can be redeployed anywhere.

### Birdie Free

Only RELM Wireless goes the extra mile to create a truly birdie free radio, which means there are no blocked out frequencies on this mobile.

### 256 Programmable Quick Call ID's

Connect with select radio users easily and ASAP through RELM's Quick Call function.

### Busy Channel Selections

Designed to prevent other radio communications and interference on channels being used.

### Problem Prevention Features

The Keypad lock prevents you from accidentally hitting a button that may activate functions unintentionally.

### DVSI AMBE+2 Version 1.60 Vocoder

The version 1.60 Vocoder provides improved RF performance in a variety of degraded signal conditions. It also provides enhanced audio signal conditioning which improves system performance in the presence of background noise.



# OPTIONS

## P25 Trunking

(KZA0569 - Factory Install)  
(KAA0569 - Field Install)

The KNG 9600 Baud Trunking option gives you the ability to communicate without hassle and without complication. Compatible with competitor Trunking systems, RELM Wireless Trunking is P25 compliant and loaded with features, such as encryption and many unit-to-unit specializations. Best of all you get RELM's ease of use. Using our intuitive software, modifying your KNG Trunking features will be simple.

## OTAR

(KZA0580 - Factory Install)  
(KAA0580 - Field Install)

Over-the-air rekeying is an easy solution to efficiently change encryption keys. Completed almost effortlessly, encryption keys are changed over the air with a touch of a button.

## Multicast Vote Scan

(KZA0583 - Factory Install)  
(KAA0583 - Field Install)

Multicast Vote Scan capable KNG Series radios automatically select the best site to operate from in a wide area system. Channels in the multicast conventional system are added to the scan list and designated as "voted" channels. The KNG radio scans all voted channels and selects the channel with the best signal.

## AES/DES ENCRYPTION

(KZA0576 - Factory Install)

AES and DES (Digital Encryption Standard) allows you to communicate with other radios that have the specific key programmed. RELM's AES/DES Encryption is NIST certified, validated FIPS 140-2 Type III encryption with a 256 key load.

# BUTTONS AND FUNCTIONS



# KNG TRANSPORTABLE MOBILE RADIO

<b>Specification</b>	<b>TMR-150</b>
FM Modes	Digital P25/Analog (C4FM/FM)
Channels w/ Variable Zone Size	2048
Zones (up to)	2048
Frequency Range (MHz)	136 - 174
Operating Voltage (V Nominal))	14.4Vdc
Channel Spacing (kHz)	12.5 / 25 Phase I
Channel Increments (kHz)	1.25
Encryption	AES 256 Bit FIPS 140-2
Key and Rekeying	OTAR and KVL Compatible
Operating Temperature (°C)	-30 to +60
Dimensions (W in x D in x H in)	10 x 4.5 x 10
Display	Front Panel, Touch Screen Color TFT LCD
Weight w/Battery (lbs)	10lbs. 8oz
Standby Current Draw (mA)	350
With Backlight off	280
FCC ID	Pending
<b>Receiver</b>	
Sensitivity (dBm)	-121
P25 Sensitivity (dBm)	-121
Per TIA/EIA-603 2.1.6	≥80 (70)
P25 Adjacent Channel Rejection (dB)	≥(60)
Spurious and Images (dB)	≥80
Intermodulation Rejection (dB)	78
Audio Distortion at 5W (%)	≤2
Current Draw (mA)	800 (@ 5W rated audio)
<b>Transmitter</b>	
RF Power (Watts)	15 W
Frequency Stability (ppm)	≤1.5
Audio Distortion (%)	≤3
FM Hum & Noise (dB)	≥50 (44)
Spurious and Harmonics (dB)	75
Current Draw (A)	3

## **Battery Life** - 10/10/80 Duty Cycle

Battery Capacity (mA)	TX (mA)	RX (mA)	Standby (mA)	Life (hrs)
12000	3000	800	350	18.2