

A Whole New RELM of Possibilities



KNG MOBILE



- ✓ P25 Trunking Option
- ✓ Mobile Programmability
- ✓ Multi-Mode Operation
- ✓ Programmable Channel Scan
- ✓ Talkaround Mode
- ✓ Scan Mode
- ✓ Alpha-numeric Touch Screen Display



Meet the KNG Series Mobile, the industry's first mobile radio with a touch screen display. The KNG Series Mobile offers exceptional features in a standard package for both mid and high power applications.

KNG MOBILE

The KNG Mobile is offered in four frequency bands and two power options, 50 or 100 Watt. The menu is smart and customized to fit your everyday needs.



- KNG - M150 VHF 136 - 174 MHz
- KNG - M400 UHF 380 - 470 MHz
- KNG - M500 UHF 440 - 520 MHz
- KNG - M800 UHF 763 - 870 MHz

RELM Wireless Corporation
7100 Technology Drive
West Melbourne, FL 32904
800-821-2900
www.relm.com

Your Local Dealer



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.

HIGH POWER (110 WATT)

(KZA0154 - Factory Install)
(KAA0154 - Field Install)

The KNG mobile high power option is designed for the same package size as the 50 Watt - no external fixture - and can be software enabled in the field for when you need it most. 110 Watts of RF output will further the range of the mobile and increase its capability. The high power option is only available for the VHF KNG-M150 model.

GPS

(KAA0589)

Know where you and your team are at any given moment with the RELM Wireless GPS option (P25 Tier 1 Location Services Compliant). Longitude and latitude coordinates will give your exact location, or the location of another KNG, anywhere in the world, saving valuable time when calling for backup in emergency situations.

REMOTE MOUNT

(KAA0660)

(This option must be purchased in addition to a KNG Series Mobile)
No more room in your dash? Opt for the remote mount kit. With the remote mount option, you get a fully functional touch screen mobile face which allows for ease of use while in the cab of your vehicle. This kit comes complete with mounting hardware and cables.





ADVANCED FEATURES

FEATURES

2048 Channels, Dynamic Grouping

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

USB or Mobile Programmability

Program the KNG Mobile 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 Mobile 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/Group Scan

Find an available channel for communications: scan by channel, priority channel, or scan by groups, one group 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 Mobile's 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.

Small Package High and Mid Power

Only the KNG Mobile offers 50 Watt and 110 (VHF) Watt power in a same size package - small and compact to fit neatly in your dashboard.

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.





RELM
WIRELESS

A Whole New RELM of Possibilities

BUTTONS AND FUNCTIONS



KNG SERIES MOBILE

Specification	KNG-M150	KNG-M400	KNG-M500	KNG-M800
Channels w/ Variable Zone Size	2048			
Zones (up to)	2048			
Frequency Range (MHz)	136 - 174	380 - 470	440 - 520	763 - 870
Operating Voltage (V Nominal)	13.8 V (Nominal), Negative Ground			
Channel Spacing (kHz)	12.5 / 25 KHz			
Channel Increments (kHz)	1.25 / 3.125			
Operating Temperature (°C)	-30 to +60			
Dimensions (W in x D in x H in)	8.5" x 6.5" x 2.5"			
Weight	7.5 lbs			
Receiver				
Sensitivity (dBm)	-121	-119	-119	-119
P25 Sensitivity (dBm)	-121	-119	-119	-119
Adjacent Channel Rejection (dB) Per TIA/EIA-603 2.1.3	80 (70)	78 (67)	77 (67)	75 (67)
P25 Adjacent Channel Rejection (dB)	60	60	60	60
Spurious and Images (dB)	80	80	80	75
Inter modulation Rejection (dB)	78	75	75	75
Audio Distortion at 15W (%)	3	3	3	3
Current Draw (A)	2.5A	2.5A	2.5A	2.5A
Transmitter				
RF Power (Watts)	50W, 110W	50W	50W	35W
Frequency Stability (ppm)	1.5	1.5	1.5	1.5
Audio Distortion (%)	3	3	3	3
FM Hum & Noise (dB)	50 (44)	50 (44)	50 (44)	50 (44)
Spurious and Harmonics (dB)	75	75	75	75
Current Draw (A)	22A - 110W	15A	15A	10A
Emission Designators	11K0F3E, 16K0F1E, 8K10F1E, 8K10F1D			
Narrowband specifications are denoted in parenthesis.				



RELM Wireless Corporation T: 1-800-821-2900
 7100 Technology Drive F: 1-800-704-3177
 West Melbourne, FL 32904 E: sales@relm.com
www.relm.com