A Whole New RELM of Poss1b1l1t1es

KNGSERIES

*IP67 Water and Dust Protection
*USB PC Programmable
*NIST-Certified AES & DES/OFB
* M IL-STD 810 C/D/E/F
*Multiple Options Available
* Small , Light, Easy to Use and Customize

Tier 2 ***KNG***

The KNG Series Portable Radio from RELM Wireless works as hard and as long as you do. Built durable and designed with cutting edge technology, the KNG Portable is *the* radio of choice for state, local and federal governing agencies. With RELM's intuitive menu system, customize the KNG to fit *your* everyday needs.

KNG SERIES

The KNG Series is offered in four frequency bands and two design options, with or without (Tier II) an alphanumeric keypad.

RELM WIRELESS

KNG - P150/TII	*VHF 136 - 174 MHz*
KNG - P400/TII	*UHF 380 - 470 MHz*
KNG - P500/TII	*UHF 440 - 520 MHz*
KNG - P800/TII	*UHF 763 - 870 MHz*

BK RADIO

P25

OPTIONS

Wireless Tactical OTAR
(KZA05 84)

With RELM's Wireless Tactical OTAR (WTO), you are provided with the flexibility to upgrade encryption keys wirelessly and effortlessly without ancillary equipment, infrastructure or key management facilities. WTO operates radio-to-radio and is completely contained in the KNG radio units, which means no additional equipment is required beyond initi alizati on .

Multicast Vote Scan
(KZA0581)

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
(KZA0577)

AES (Advanced Encryption Standard) development has been a co-operative venture between the U.S. government and the private industry sector resulting in a universal encryption system. 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 Ill encryption with a 256 keyload.

A Whole New RELM of Possibilities

ADVANCED FEATURES

1-6 Watts RF Power Output
Extend the radio's reach with up to 6 Watts of signal clarity. High and low settings are programmable by channel for power efficiency.

512 Channels, Dynamic Grouping
Custom-tailored user groups can be programmed into the KNG by radio users and can also be field changed or reprogrammed whenever necessary.

100 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.

Channel/Priority/Group Scan
Find an available channel for communications: scan by channel, priority channel, or scan by groups, one group at a time.

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

Proble11n Prevention Features
The Keyp,ad Ioc k prevents you from accidentally hitting a button that may activate functions unintentionally.

Class A Specifications
The KNG P,ort able provides the clearest sound with the least distortion among comparable P25 radios, The KNG meets or exceeds the best performance numbers of all U.S. manu 1facturers' comparable top-tier P25 digital radios in 110 of 11 key categories of TIA Class A specifications

Birdie F:ree
Only RELM' Wireless goes the extra mile to create a tru ly birdie free radio, which means there are no blacked out frequencies on our portable.

Buttons and Functions

Channel Select

Volume Knob

Encryption On/Off Collar Switch

LED Battery Indicator

Programmable Toggle Switches

Emergency Button

VHF Antenna

Audio Accessory Jack

Field Programmable Side Buttons

Microphone

Loud 1.6" Diameter Mylar Cone Speaker

13 Character M ulti -lin e LCD Display

Push to Talk

Alphanumeric Ke ad

Easy to Use Menu Navigation Buttons

Features

Superior Audio Quality

The KNG comes equipped with a 1.6" diameter speaker, giving you the loudest and clearest sound with the least distortion.

Long Battery Life

The KNG works as long as you do, putting in 12+ hours of reliable communication everyday.

Custom Programming

Our intuitive menu system and feature set is fully customized to fit your needs.

Waterproof IP67 Rating

Dust tight and waterproof - the KNG Portable is specially designed to withstand 30 minutes of water immersion at 1 meter depth.

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

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

APCO Project 25

The KNG Portable meets or exceeds APCO P25 standards.

Large LCD Display

Day or night, get all the information at a glance with our 13 character, 5 line LCD Display.

Field or USB PC Programmable

Easy of use. The KNG can programmed via USB port on virtually any PC.

Specification-

	KNG-P150	KNG-P400	KNG-P500	KNG-PBOO
Frequency Range	136 - 174 MHz	380 - 470 MHz	440 - 520 MHz	763 - 870 MHz
Channels w/ Variable Zone Size	512	512	512	512
Zones (up to)	32	32	32	32
Operating Voltage	10 V	10 V	10 V	10 V
Channel Spacing				
Channel Increments	1.25 kHZ	12.5 kHZ	12.5 kHZ	
Operating Temperature				-Jo·c-+60 PC
Dimensions (W x D x H)	2.5 x 1.8 x 5.5 in	2.5 x 1.8 x 5.5 in	2.5 x 1.8 x 5.5 in	2.5 x 1.8 x 5 .5 in
Weight w/ Battery	16 oz	16 oz	16 oz	16 oz
Standby Current Draw	75 mA	85 mA	85 mA	85 mA
FCCID	K95KNGP150	K95KNGP400	K95KNGP500	K95KNGP800
Receiver				
Sensitivity: 12db SINAD	-121 dBm	-119 dBm	-121 dBm	-119 dBm
P25 Sensitivity: 5% BER	-121 dBm	-119 dBm	-121 dBm	-119 dBm
Adjacent Channel Rejection	80 (70) dB	78 (67) dB	77 (67) dB	72 (63) dBPer TIA/ EIA-603 2.1.6
P25 Adjacent Channel Rejectfon	60 dB	60 dB	60 dB	60 dB
Spurious and Images	80 dB	80 dB		
Intermodulation Rejection	78 dB	75 dB	75 dB	75 dB
Audio Response	+1dB / -3dB	+1dB / -3dB	+1dB / -3dB	+1dB / -3dB
Audio Distortion at 500mW	2 %	2 %	2 %	2%
RX Current Draw	150 mA	160 mA	160 mA	255 mA
Transmitter				
RF Power	6 / 5 / 1 Watts	5 / 4 / 1 Watts	5 / 4 / 1 Watts	3 / 1 Watts
Frequency Stability	1.5 ppm	1.5 ppm	1.5 ppm	1.5 ppm
Modulation Deviation	5 (2.5) kHz	5 (2.5) kHz	5 (2.5) kHz	5 (2.5) kHz
Audio Distortion	3 %	3 %	3 %	3 %
FM Hum & Noise	50 (44) dB	50 (45) dB	50 (44) dB	50 (45) dB
Spurious and Harmonics	75 dB	75 dB	75 dB	75 dB
Current Draw @ High Power	1500 mA	1500 mA	1500 mA	1500 mA
Audio Response	+1dB / -3dB	+1dB / -3dB	+1dB / -3dB	+1dB / -3dB

!Narrowband spec·ficaticns are deno ed ln parethesis.

49er Communications

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