

KG 209 series

VHF / UHF FM Portable Radio



Traditional Excellence

KYODO has been building Land Mobile Radios for 60 years. During that time, our products have earned a worldwide reputation for reliability and performance. Our traditional commitment to advancing technology, innovative design and the latest Surface Mount Techniques provides the highest level of quality and ultimate versatility. The KG209 has evolved from these traditions and offers features that customers can use well into the future. The KG209 will work for you, day-in-day-out for years and years.

Setting New Standards in Professional Communications

Main Features

Rugged Die-Cast Construction

The frame and the front and rear covers are die-cast aluminum for greater strength. O-ring seals are used on covers to prevent entry of moisture.

Wide Band Operation

The KG209 operates over a wide channel band-width without re-tuning. VHF Models have 26 MHz Switching Bandwidth while UHF models have an even more impressive 35 MHz.

Frequency Coverage

The KG209 is available in 30-50 MHz, 66-88 MHz and 136-520 MHz bands.

Selectable Transmitter Power

The KG209 may be programmed to HIGH or LOW power on a per-channel basis. Power level may also be selected from the keypad. Power levels are adjustable.

Selective Calling

Both 5-Tone and DTMF encoders and decoders are standard features. Tone format may be selected from the keypad. Memory storage is included for frequently called numbers. Calling number may be displayed on LCD.

Timers

Timers are included to limit transmission length (TTL) and to automatically turn off the radio after long periods of no activity (to prolong battery life).

Automatic Number Identification (ANI)

An ANI feature is included that can be programmed to send the ANI with each series of transmissions. This number may be displayed on other Kyodo radios and at the base station for better control of the channel.

Self Diagnostics

Upon power-on, the KG209 automatically checks itself for proper operation. If a problem is detected in the battery or PLL section, appropriate warning messages are displayed to save time in servicing.

Light Weight

The KG209 won't tire you out carrying it because it only weighs 480 grams with the NH1650 battery.

Excellent Performance

The KG209 uses a double balanced mixer to provide better cross modulation and intermodulation protection and better signal to noise ratio.

Longer Battery Life

The standard NH1650 (1650 MAH) battery will provide extended service. In addition, a battery saving circuit is used to prolong battery life even more. The standard battery capacity will be updated with advances in technology. An NC2000 MAH Nickel-Cadmium battery is also available for even longer battery life between charges.

Channel Data Display

Programmed channel frequency and tone information may be displayed on the LCD for each channel.



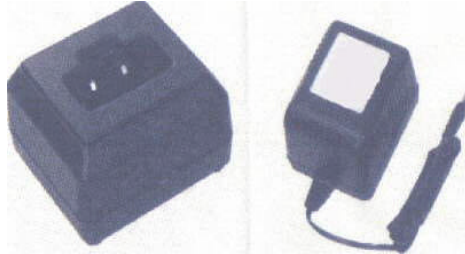
Make The KG209 Work For You With The Right Options

Many options and accessories are available to tailor the KG209 to your operating requirements.



Heavy Duty Leather Case

Several models offer straps, detachable belt loops and sizes for different batteries.



Battery Chargers

Single unit and 6-unit chargers with slow and fast charge rates, 115 & 230 Volt.



External Speaker/ Microphone

Connects to the accessory connector on the side of the radio. Permits operation without removing radio from belt.



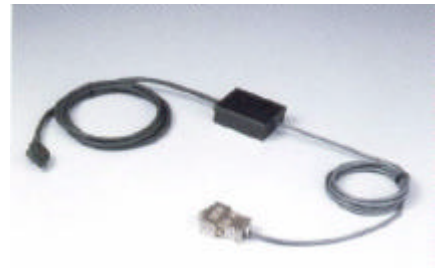
Choice of Antennas

Many styles available in helical, stub and 1/4 wave (UHF).



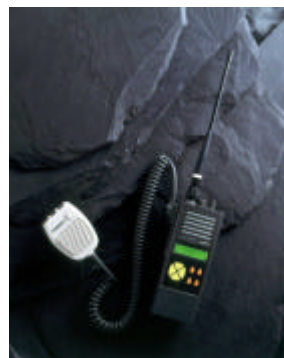
Choice of Batteries

Unique multiple grooves make extremely strong connection to the radio. Gold plated contacts. Standard Nickel Metal Hydride NH1650, optional NC2000 Nickel Cadmium heavy-duty models.



Programming Kit

Uses standard PC to program all features of the radio. Kit includes cable, software (floppy disk) and detailed manual.



SPECIFICATIONS

KG209 Portable Transceiver

GENERAL					
Frequency Range	30 MHz Band	80 MHz Band	VHF Band	200 MHz Band	UHF Band
Radio Model	KG209-03()05K	KG209-08A03K	KG209-15()05K	KG209-20()03K	KG209-40()05K
Band Splits	A: 30 - 40 MHz B: 40 - 50 MHz C: 45 - 55 MHz* * Special Order	A: 66 - 88 MHz	A: 134-162 MHz B: 146-174 MHz	A: 176-206 MHz B: 208-245 MHz C: 240-276 MHz D: 270-300 MHz	SA: 300-335 MHz A: 335-370 MHz B: 365-400 MHz DS: 420-455 MHz D: 440-475 MHz E: 465-500 MHz F: 485-520 MHz
Number of Channels	200 Channels, 100 Channels With Channel Name				
Channel Spacing	12.5, 20, 25, 30 kHz Programmable by Channel				
Mode of Operation	Simplex or Half Duplex, Push To Talk				
Antenna Impedance	50 Ohms Unbalanced				
Power Supply	7.2 Volt Rechargeable Battery				
Environmental Conditions	Ambient temperature: -30 C to +60 C (-22 F to +140 F) Relative humidity: 95% at +35 C				
Dimensions	Standard Battery: 61 mm (2.4") Wide x 160 mm (6.3") High (Less Antenna) x 36 mm (1.4") Deep Heavy Duty Battery: 201 mm (7.9 ") High (Less Antenna)				
Weight	Radio Alone: 267 gm (9.4 oz), With Std. Batt: 480 gm (16.7 oz) With HD Batt: 611gm (21.5 oz)				
TRANSMITTER					
RF Power Output	1 to 5 Watts Adjustable (3 Watts Max. where restricted), Programmable High / Low by Channel				
Max. Frequency Deviation	± 5 KHz Wide Band, ± 2.5 KHz Narrow Band				
Frequency Stability	$\pm 0.0003\%$				
Frequency Response	Within +1, -3dB of 6 dB/Octave Pre-emphasis from 300 to 3000 Hz, 1000 Hz Ref.				
Signal to Noise Ratio	Wide band: More than 50dB at 1000 Hz 70% Modulation Narrow band: More than 45 dB at 1000 Hz 70% Modulation				
Modulation Distortion	Less than 3% at 1000 Hz 70% Modulation				
Spurious and Harmonics	More than 70 dB Below Rated Power				
RECEIVER					
Intermediate Frequency	1st IF: 48.5 MHz, 2 nd IF: 455 kHz				
Frequency Stability	$\pm 0.0003\%$				
Sensitivity	Less than 0.4 uV for 20 dB Quieting, Less than 0.25 uV for 12 dB SINAD				
Squelch Sensitivity	Less than 0.25 uV				
Selectivity	More than 70 dB at 25 kHz Point				
Blocking	More than 90 dB				
Intermodulation	More than 70 dB				
Spurious Response	More than 70 dB				
AF Response	Within +1, -3 dB of 6 DB/Octave De-emphasis from 300 to 3000 Hz, 1000 Hz Ref.				
AF Output	500 mW into 8 Ohms Max.				
Signal to Noise Ratio	Wide band 25 KHz: More than 50 dB at 1000 Hz 70% modulation Narrow band 12.5 KHz: More than 45 dB at 1000 Hz 70% modulation				

Notice: Some models not available in the U.S. pending FCC approval.



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