

KENWOOD

Listen to the Future



P25 Solutions for Mission Critical and Government Users

A two-way radio, for you, is more than just a piece of equipment. It is a lifeline. A radio can change the outcome of a call in less than a heartbeat. Your decision to buy a two-way radio isn't a purchase just based on brand, price or features. Your radio investment is a decision that will be relied upon for many years as a trusted tool for those affirmed to preserve and protect. The two-way radio purchase you make will be tested again and again, every time a mic is keyed up or a portable is grabbed from the charger. You must act with the interests of the public trust in mind as you make your radio investment. You have to be certain. You have to be sure.

We are proud to say that Kenwood has been rewarded by loyalty from first responders across America for more than twenty years. That quality starts with extensive face to face meetings with your fellow mission critical specialists. In these meetings with our team of engineering and product development professionals, careful attention is paid to unique operating requirements, specific features and very particular demands for performance.



DURABILITY & DEPENDABILITY

Kenwood radios are subjected to a variety of tests for extreme temperatures, and resistance to water, dust, vibration, and impact and meet or exceed every military specification for durability without sacrificing ease of use. Kenwood radios have justifiably earned a reputation for dependability with mission critical professionals.



Kenwood Project 25 Digital Handheld Radios



TK-5210/5310/5410



Basic
Model

Standard
Model

Full Keypad
Model

- P25 Conventional
- P25 Digital Trunking
- Talk Group ID Lists
- Individual ID Lists
- Caller ID Display
- Remote Monitor / Remote Check
- Radio Inhibit
- Encryption Key Zeroize & Retention
- DES Encryption Module
- AES & DES Encryption Module
- KPG-36AM Radio Program & Soft-Key Loader Cable
- KPG-93 KVL Device Key Loader Cable

The TK-5210/5310/5410 portables are available in basic non-display, display and display with keypad models. The 16-character LCD and controls provide an intuitive user-interface, simplifying P25 and FM operation. The P25 trunked option permits operation on local, regional and statewide P25 compliant networked systems

DESIGNED FOR INTUITIVE USER INTERFACE

PREMIUM INDUSTRIAL DESIGN

The high-tier TK-5210/5310/5410 P25 portables showcase premium industrial design and engineering. Rugged housing, ergonomically sound design and user friendly controls come together for maximum comfort, functionality, and durability.

ENHANCED DISPLAY

The backlit high-resolution dot matrix LCD is clearly visible day or night with a 16-character alphanumeric alias for easy-to-read channel/group names.



ADVANCED CONTROLS

The mechanical rotary on/off volume and selector knobs are designed for sure grip and sight-unseen tactile feedback. The selector knob is programmable for channel or zone select and 10 other programmable function controls are available to customize the radio for simple or sophisticated operation. The full keypad model's keys are programmable for direct access or shift-function features.



At the highest federal levels in the U.S., Kenwood radios perform when the utmost in security and disaster response is required.

These heavy-duty mobiles incorporate enhanced features for agencies that need optimal voice and data performance with advanced interoperability capabilities.

EMERGENCY CALL FEATURES

Emergency (manual) or Emergency Man-Down (tilt-switch option) notifies dispatch or incident command of personnel in trouble. The radio can be set for audible/visible or silent alerting even if the radio power has been turned off.

VOICE ANNUNCIATION

Announces zone and channel numbers in a clear synthesized voice allowing ease of operation in low visibility or confined spaces.













Stand alone systems, and those that connect with local public safety agencies, require scalable solutions that meet fluctuating budgets.

FORESTRY SERVICE FEATURE SET (FSFS)

Designed specifically for forestry, conservation, wildlife management and cooperative firefighting agencies, the FSFS consists of the Tactical Group (FM & P25), Operator Selectable Tone (OST) List and Direct OST Select capability (FM only).

TACTICAL GROUP

Users can create a custom group of up to 250 channels for temporary mutual aid and incident communications (FM & P25 modes).

TK-5210/5310/5410 PORTABLES										
Band	VHF				UHF				700/800	
										
Frequency (MHz)	136-174				380-470, 450-520			380-470	700/800 MHz	
RF Output Power	5W				4W				3W	
Channel/Zone	512 / 50			64 / 16	512 / 50			64 / 16	1,024 / 100	
LCD Display (Character)	-	16			-	16			16	
Front PK Key	-	4			-	4				
DTMF Key	-		12		-		12	-		12
Analog FM										
DTMF	Encode / Decode								Encode Only	
2-Tone	Encode / Decode								-	
FleetSync	Encode / Decode								-	
MDC-1200	Encode / Decode								-	
P25 Conventional										
Individual ID List	512 (99 per System)								512 (250 per System)	
Digital Encryption	AES/DES			DES Only	AES/DES			DES Only	AES/DES	
P25 Trunking										
Firmware	Option								Included	
Max Network	16									
Normal Hunt Channel	1,024 (64 per Network)								2,048 (256 per Network)	
Status List	128 (16 per Network)								128 (128 per Network)	

Kenwood Project 25 Digital Mobile Radios



TK-5710/5810/5910

Kenwood's TK-5710/5810/5910 premium high specification heavy-duty mobiles offer conventional FM and conventional P25 digital operation to meet present and future interoperability requirements in law enforcement, fire and emergency services at every level of government.

DESIGNED FOR INTUITIVE USER INTERFACE



- P25 Digital Conventional
- P25 Digital Trunking
- Talk Group ID Lists
- Individual ID Lists
- Caller ID Display
- RSSI Indicator
- Remote Monitor / Remote Check
- Radio Inhibit
- Encryption Key Zeroize & Retention
- DES Encryption Module
- KPG-43AM Radio Program & Soft-Key Loader Cable
- KPG-94 KVL Device Key Loader Cable

DIE-CAST CHASSIS

The aluminum die-cast chassis heat-sink is lightweight yet provides exceptional strength and heat dissipation.

MEDIUM and HIGH POWER MODELS

The TK-5710 (VHF) and TK-5810 (UHF) mobiles are offered in both a high or medium power option, offering up to 110W of RF output. The TK-5910 (700/800 MHz) mobile is offered in a medium power version up to 30 W of RF output.



Mid Power Model



High Power Model

EXTERNAL CONNECTOR

The DB25 accessory connector provides an interface for intercom systems, headsets, remote controls and data equipment.



For county and regional communications, Kenwood P25 systems provide the flexibility of advanced digital features and interoperability.

These mobile radios are designed for agencies that require advanced voice and data features and enhanced interoperability capabilities in a heavy duty package.

CONTROL HEAD OPTIONS



KCH-14

The KCH-14 basic control panel has a dot matrix LCD with 12-digit alphanumeric display, extra 3-digit alphanumeric for group/channel number, and icons for operational and status indications. Backlit for nighttime operation, the control panel delivers clear audio quality from its front mounted speaker.



KCH-15

The KCH-15 full-featured control panel has a dot matrix LCD with 14-digit alphanumeric display, extra 3-digit alphanumeric for group/channel number, and icons for operational and status indications. Additionally, a total of 13 keys are programmable, including GRP UP, GRP DOWN, MON, SCN, and PF 1~9 for virtually any mobile radio feature. For nighttime operation, the display is backlit.



KCH-16

The KCH-16 incorporates a full mobile radio control head and keypad microphone in a compact size. The long 7-foot coilcord provides the operator with the length to extend the control head. The KCH-16 provides a practical solution for covert operations, small command posts, limited-space applications and VIP vehicle installations.

Dash Mount



Single Remote Head








Dual Remote Head



Hand Held Control Head



TK-5710/5810/5910 MOBILES

Band	VHF		UHF		700/800
					
Frequency [MHz]	136-174		400-470, 450-520		700/800
RF Output Power	110W	50W	100W	45W	35W
Channel Zones	512 / 50				1024 / 100
Aux Port	DB25 & 9in Molex				
Analog FM					
DTMF	Encode / Decode				Encode Only
2-Tone	Encode / Decode				-
FleetSync	Encode / Decode				-
MDC-1200	Encode / Decode				-
P25 Conventional					
Individual ID List	512 (99 per System)				512 (250 per System)
Digital Encryption	AES/DES				
P25 Trunking					
Firmware	Option				Included
Max Network	16				
Normal Hunt Channel	1,024 (64 per Network)				2,048 (256 per Network)
Status List	128 (16 per System)				128 (128 per System)

Kenwood Project 25 Digital Radios



TK-5220/5320







Kenwood's TK-5220/5320 portable radios feature a compact, rugged design rich with capabilities, offering a wide range of P25 solutions for all levels of public safety and service agencies. These new P25 models operate in FM analog and P25 digital modes and combine AMBE+ 2™ enhanced full rate vocoder technology along with Kenwood's decades of audio heritage to deliver unmatched voice performance in a two-way radio.

DESIGNED FOR INTUITIVE USER INTERFACE

COMPACT AND LIGHTWEIGHT

At only 5" in height and less than 14 oz. in weight with a standard Li-Ion battery, the TK-5220/5320 is designed for optimum daily performance in a conveniently small and lightweight portable.

TK-5220/5320 PORTABLES

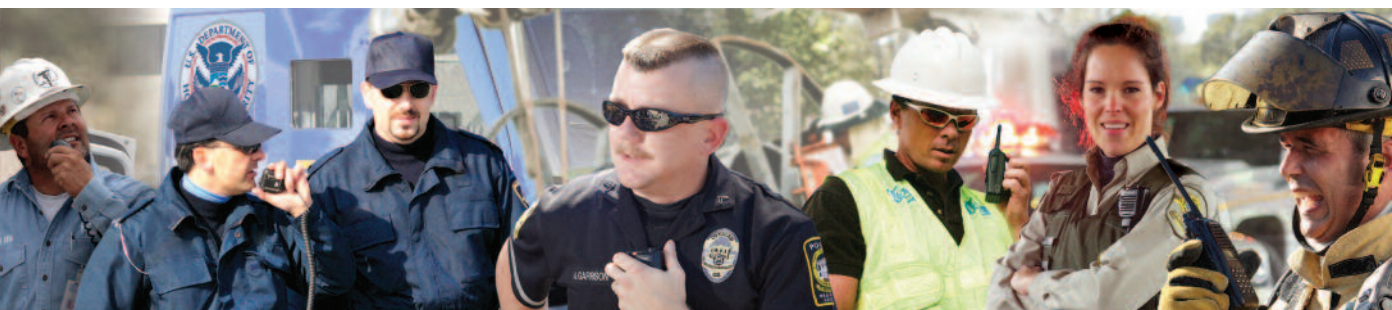
Band	VHF		UHF	
				
Frequency (MHz)	136-174		400-470, 450-520	
RF Output Power	5W			
Channel / Zone	512 / 50			
LCD Display (Character)	14			
Front PF Key	4			
DTMF Key	-	12	-	12
Analog FM				
DTMF	Encode/Decode			
2-Tone	Encode/Decode			
FleetSync	Encode/Decode			
MDC-1200	Encode/Decode			
P25 Conventional				
Individual ID List	5212 (250 per System)			

DESIGNED FOR HIGH NOISE ENVIRONMENTS

These portables combine AMBE+2™ enhanced full rate vocoder technology with Kenwood's renowned audio quality for unmatched voice fidelity in any setting.

EASY-TO-USE, FOR QUICK DEPLOYMENT

Confidently put these portables in the hands of any user due to the carefully designed 16-position selector knob with detent feel and mechanical stop, 14-character alphanumeric bright LCD display and military spec durability.



Full P25 digital and FM analog modes in a compact design make these portables and mobiles the choice for the requirements of a mid-tier budget without sacrificing performance.

TK-5720/5820



ADVANTAGES OF P25 AMBE+2™

Full compatibility with IMBE™ P25 radios, improved FEC and noise reduction, combined with Kenwood audio, leads to superior audio clarity at high volumes.

VERSATILITY IN DESIGN AND FUNCTION



The built-in easy 26-pin option port, DB-25 and 9-pin accessory connectors and programmable function/menu keys mean you can configure this mobile to suit your agency's operations.

The TK-5720(VHF)/5820(UHF) premium high specification heavy-duty mobile radios offer conventional FM and conventional P25 digital operation for present and future interoperability requirements for law enforcement, fire and emergency services.

DESIGNED FOR INTUITIVE USER INTERFACE

BUILT TO FIT ANY VEHICLE

Installed in an ambulance, fire, police or public utility vehicle, these mobiles come in dash or remote mount configurations and a compact size, for maximum versatility.

TK-5720/5820 Mobiles		
Band	VHF	UHF
		
Frequency (MHz)	136-174	400-470, 450-520
RF Output Power	50W	45W
Channel / Zone	512 / 50	
LCD Character	14	
Aux Port	DB25	
Analog FM		
DTMF	Encode/Decode	
2-Tone	Encode/Decode	
FleetSync	Encode/Decode	
MDC-1200	Encode/Decode	
P25 Conventional		
Individual ID List	512 (250 per System)	
Digital Encryption	AES/DES	



Selecting Kenwood assures that P25 capability is within the reach of any size agency, while ensuring a range of essential technical features, best-in-class ergonomic design and renowned Kenwood audio.

The backbone of your P25 system is the TKR-7400P/8400P P25 repeater. Available in either rack or cabinet mounted versions, up to 250W of performance, these accommodate analog systems and offer full digital communications features.

| TKR-7400P/8400P

The TKR-7400P/8400P VHF & UHF P25 conventional repeater systems are comprised of the Kenwood high performance TKR-740/840 transceiver units and a KSGCP401 P25 controller. The KSGCP401 supports up to four conventional P25 channels and operates in dual mode, delivering full-featured P25 digital communications and continued service to analog fleets.



- 146-162 MHz 40W, 110W, 250W VHF Systems
- 450-480 MHz 40W, 100W, 250W UHF Systems
- Repeater Operation
- Continuous Duty Cycle
- Forced Air Cooling
- Power Supply / Distribution Options
- Battery Backup Options
- Cabinet / Rack Mounting Options
- Controls Up to Four TKR-740/840 Units
- P25 FDMA Common Air Interface
- Dual Mode Analog & P25 Conventional
- P25 Individual, Group & System Calls
- P25 Emergency Calls
- Single-Site Conventional
- Site Management Ethernet Port
- P25 System Status Monitor/Control
- 19-Inch Rack Mount Height (1RU)



Demanding outdoor conditions and long duty cycles require the military spec quality of Kenwood P25 radios.

Mobile and Portable P25 Radio Accessories

Kenwood offers every mobile and portable P25 radio accessory that your department will need. Chargers are available in single port to multiple slot models, with a selection of rapid and standard charge cycles. All battery chemistries, including lightweight and high performance Li-Ion are available for the portables and many types of mics and headsets let you customize your Kenwood P25 radio for your department's users and work environments.

Your Kenwood authorized dealer will assess your requirements, assist in securing funding for your agency and support your purchase decision with nationally recognized quality service.

Customer Testimonials

"We've used Kenwood since 1999 and then chose P25 radios when they became available. These radios hold up to weather, atmosphere, built to be very sturdy, which is important for firefighters. The battery life is exceptional, lasts almost two shifts sometimes. The texture on the controls makes them easier to grasp. Kenwood is a very good product and the reliability is there. The repeaters, in particular, have been stellar. In this economy, Kenwood prices are reasonable."

John Wojewoda
Communications Technician
City of Niagara Falls, NY

"Kenwood came to the table with a product that was functional in the system and comparable in features while being more cost effective. One of the notable features is that if you need encryption, it can be added at any time. And the ability to go from a dash mount to a remote head or a handheld remote as you need it is key, you can't do that with other radios. We did field testing of the Kenwood radios and audio quality, even in a high noise environment is much better, the voice is much clearer. Kenwood has come in and done programmer training. They bend over backwards and I would highly recommend them to any agency in the future."

Dave Erwin
EOC Coordinator
Kanawha County, WV

"We put in our system in 2001 and wanted to stay with the vendor we've been pleased with and have had no trouble whatsoever. Our dealer, too, has been excellent for us. Remember, you can buy radio equipment anywhere but the service is more important than the product. The P25 radios have a lot more capabilities and we can program it to do certain things we need and we like that feature. I like the size, too, it's smaller and lighter to tote. The audio quality is good. We bid out our system and there are several vendors that we could buy equipment from but for the price of the Kenwood equipment, the reliability and the service...we could pay more, but in my opinion, we would definitely stay with Kenwood. Also, remember, if we were having any trouble, we would be forced into making a change. In emergency response, every second makes a difference. If that equipment fails, we would have to immediately do something different. Kenwood is proven day after day."

Eddie Vick
Public Safety Coordinator
County of Sussex, VA

"We did our research and liked what we read. We spoke to another agency and they were pleased with Kenwood. We looked at the TK-5210 and liked what we saw. We especially like the scan feature because we work with multiple agencies and it's nice to be able to switch over to another agency. These are durable radios. Cops are hard on their equipment. We've had a couple take a hard drop out of their holsters and the cops just dust them off and go back to using them."

Chief Mark Stinson
Sonora Police Department
Sonora, CA



Listen to the Future

Kenwood has always connected with people through sound. Now we want to expand the world of sound in ways that only Kenwood can, listening to our customers and to the pulse of the coming age as we head toward a future of shared discovery, inspiration and enjoyment.

Kenwood reserves the right to change specification and features without prior notice. FleetSync® is a registered trademark of Kenwood Corporation. AMBE+2 (DVS Inc.) P25 (P25 Tech Interest Group)

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