

KENWOOD



P25 Mission Critical

TK-5230/5330/5430

700/800 MHz • VHF • UHF • P25 PHASE 1 & 2 • FM ANALOG • LTR

Compact P25 Phase 1/Phase 2 radio with large transfective color display, built-in GPS & Bluetooth® is a great fit for public works or public safety agencies looking for a smaller feature rich radio.

MAIN FEATURES

- Digital operation in P25 Phase 1 & Phase 2
- P25 Phase 1 Conventional/Trunked Operation (standard)
- Mixed Digital, FM Analog & LTR Operation allows migration in mixed sites
- Large, color 1.74" (240 x 180 pixels) Transfective TFT Display for better use in direct sunlight & with use of polarized sunglasses
- Easy to follow GUI for at-a-glance operational status checking & multi-line text
- 4-way Directional-pad (D-pad) & 2-Position Lever Switch for intuitive control
- Built-In GPS Receiver/Antenna for effective fleet management
- Bluetooth® Module built-in for hands-free operation
- Renowned audio quality with Active Noise Cancelling that utilizes built-in DSP with two microphones for suppression of ambient noise (dual-mic)
- Built-in 56-bit DES Encryption (4-key DES standard)
- Optional 256-bit AES Encryption
- Built-in motion sensor for life-critical man down detection
- microSD/microSDHC Memory Card Slot for increased voice & data memory capacity
- IP67/68 & MIL-STD-810 C/D/E/F/G
- Full key models (w/numeric keypad) & standard key models (w/o numeric keypad)
- Maximum of 4,000 CH/Radio capacity, 512 CH/Zone, 128 Zones
- 1 W loud speaker audio

FM MODES - GENERAL

- Conventional & LTR Zones
- NPSPAC (USA only) Channels (± 4.0 Modulation)
- MDC-1200: PTT ID ANI / Caller ID Display, Emergency, Radio Check / Inhibit
- QT / DQT & Two-Tone
- Built-in Voice Inversion Scrambler

ACCESSORIES

- Complete line of accessories including speaker mics, cases, batteries, antennas and chargers.

DIGITAL - P25 MODE

- P25 Phase 1 Conventional/Trunked Operation (standard)
- P25 Phase 2 Trunked Operation
- AMBE+2™ Enhanced Vocoder
- Talk Group ID Lists
- Individual ID Lists
- Caller ID Display
- Remote Monitor/Remote Check
- Radio Inhibit
- Encryption Key Zeroize & Retention
- P25 GPS Location
- Over-the-Air Programming*¹

INTELLIGENT BATTERY SYSTEM (OPTION)

- System consists of optional high-capacity Li-Ion Battery Series (KNB-L1/L2/L3), Rapid Charger (KSC-Y32), & Battery Reader (KAS-12) software
- Up to 30 rapid chargers can be chain-connected to PC installed with KAS-12
- Battery conditions displayed in color illuminated indicators on the charger, & also displayed on connected PC with same color scheme
- Up to 1,000 batteries can be managed at a time (requires additional option)

*¹ Requires OTAP management software.



TK-5230/5330/5430 Portable SPECIFICATIONS

GENERAL		TK-5230	TK-5330	TK-5430
Frequency Range		136-174 MHz	Type 1: 450-520 MHz Type 2: 380-470 MHz	RX: 763-776, 851-870 MHz TX: 763-776, 793-806, 806-825, 851-870 MHz
Max. Channels Per Radio		1024 (Up to 4000 channels with option)		
Number of Zones		128		
Max. Channels Per Zone		512		
Channel Spacing	Analog	12.5/15/20/25*/30* kHz	12.5/25* kHz	12.5/25 kHz
	Digital	6.25/12.5 kHz	6.25/12.5 kHz	12.5 kHz (6.25 kHz)
Power Supply		7.5 V DC ±20%		
Battery Life (5-5-90/10-10-80 duty cycle)	KNB-L1 (2,000 mAh)	10 hours / 6.5 hours		
	KNB-L2 (2,600 mAh)	12.5 hours / 8.5 hours		
	KNB-L3 (3,400 mAh)	17 hours / 11 hours		
Operating Temperature		-22 °F to +140 °F (-30 °C to +60 °C)		
Frequency Stability		±2.0 ppm	±1.0 ppm	±1.5 ppm
Dimensions (W x H x D) Projections Not Included	KNB-L1 (2,000 mAh)	2.28 x 5.47 x 1.52 in. (58 x 139 x 38.8 mm)		
	KNB-L2 (2,600 mAh)	2.28 x 5.47 x 1.65 in. (58 x 139 x 41.8 mm)		
	KNB-L3 (3,400 mAh)	2.28 x 5.47 x 1.86 in. (58 x 139 x 47.2 mm)		
Weight (Dim. & Weight with Battery)	KNB-L1 (2,000 mAh)	15.52 oz (440 g)		
	KNB-L2 (2,600 mAh)	16.57 oz (470 g)		
	KNB-L3 (3,400 mAh)	17.98 oz (510 g)		
RECEIVER		TK-5230	TK-5330	TK-5430
Sensitivity	P25 Digital (5% BER)	0.25 µV		
	P25 Digital (1% BER)	0.40 µV		
	Analog (12 dB SINAD)	0.25 µV		
Selectivity	P25 Digital	60 dB		
	Analog @ 12.5 kHz	67 dB		64 dB
	Analog @ 25 kHz	73 dB		
Intermodulation		73 dB		75 dB
Spurious Rejection		80 dB	75 dB	
Audio Distortion		3%		
Audio Output Power		500 mW/8 Ω (3% Distortion)/1,000 mW/8 Ω (5% Distortion)		
TRANSMITTER		TK-5230	TK-5330	TK-5430
RF Power Output Power		6 to 1 W	5 to 1 W	3 to 1 W
Spurious Emission		-70 dB		
FM Hum & Noise	Analog @ 12.5 kHz	40 dB		
	Analog @ 25 kHz	45 dB		
Audio Distortion		2%		
Emission Designator		16K0F3E, 11K0F3E, 8K10F1E, 8K10F1D, 8K10F1W, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D		16K0F3E, 14K0F3E, 11K0F3E, 8K10F1E, 8K10F1D, 8K10F1W, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D

MIL STANDARD	810C	810D	810E	810F	810G	MIL STANDARD	810C	810D	810E	810F	810G	INTERNATIONAL PROTECTION STANDARD	
Low Pressure	500.1/I	500.2/I, II	500.3/I, II	500.4/I, II	500.5/I, II	Humidity	507.1/I, II	507.2/II, III	507.3/II, III	507.4	507.5/II	Dust & Water	IP54, IP55
High Temperature	501.1/I, II	501.2/I, II	501.3/I, II	501.4/I, II	501.5/I, II	Salt Fog	509.1/I	509.2/I	509.3/I	509.4	509.5		
Low Temperature	502.1/I	502.2/I, II	502.3/I, II	502.4/I, II	502.5/I, II	Dust	510.1/I	510.2/I	510.3/I	510.4/I, III	510.5/I	Immersion	IP67, IP68* *Portable radio immersed for 2 hours at a depth of 1 meter
Temp. Shock	503.1/I	503.2/I	503.3/I	503.4/I, II	503.5/I	Vibration	514.2/VIII, X	514.3/I	514.4/I	514.5/I	514.6/I		
Solar Radiation	505.1/I	505.2/I	505.3/I	505.4/I	505.5/I	Shock	516.2/I, II, V	516.3/I, IV	516.4/I, IV	516.5/I, IV	516.6/I, IV		
Rain	506.1/I, II	506.2/I, II	506.3/I, II	506.4/I, III	506.5/I, III	Immersion	-	-	-	512.4/I	512.5/I		

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