KENWOOD

P25 Mission Critical

TK

5730/5830/5930

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

Round-the-clock public safety operations can be extremely demanding for both personnel and equipment. The reliable TK-5x30 mobile radios offer clear mission critical communications for police, fire and EMS.

Features

- Digital operation in P25 Phase 1 & 2
- P25 Phase 1 Conventional/Trunked Operation (standard)
- Mixed Digital, FM Analog Operation allows intelligent migration in mixed sites & with digital radios in other sites
- Large, color LCD display: Full Featured - 2.75" (400 x 240 pixels); Basic - 2.55" (422 x 154 pixels)
- Easy to follow GUI & Multi-line Text
- Dual Remote Control Head Option & Multi RF Deck Options
- Built-In GPS Receiver for effective fleet management
- Bluetooth® Module built-in for hands-free operation
- Active Noise Cancelling utilizes built-in DSP with 2 microphones for suppression of ambient noise (dual-mic)
- IP54/55 and MIL-STD-810 C/D/E/F/G
- Maximum of 4,000 CH/Radio capacity, 512 CH/Zone, 128 Zones
- DB-25 Accessory Connector

Analog Modes - General

- Conventional & LTR Zones
- MDC-1200: PTT ID ANI / Caller ID Display, Emergency, Radio Check / Inhibit
- QT/DQT & Two-Tone

Accessories

Complete line of accessories including microphones, speakers & antennas. Refer to the online accessory catalog.

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
- P25 Over-the-Air-Rekeying
- Over-the-Air Programming1

Multiple Configurations (Option)

The TK-5x30 series allows users to create a variety of configurations to suit different requirements by combining different options.

- Single Remote Control Head/Single RF Deck: Mobile is controlled by a remote control head.
- Single Remote Control Head/Multi RF Decks: Operate multiple (up to 3) radio decks from single control head.
- Dual Remote Control Heads/Single RF Deck: One controller can be mounted on the dashboard with the other control head remotely mounted (such as the back of an ambulance or fire apparatus).
- Dual Remote Control Heads/Multi RF Decks: This adds the convenience of a dual control head to the above configuration so 2 operators can control up to 3 radios from separate control heads.

TK-5730/5830/5930 Mobile Specifications

General		TK-5730	TK-5830	TK-5930
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	12.5 kHz	12.5 kHz	12.5 kHz
Power Supply		13.6 V DC ±15 %		
Current Drain	Standby	0.45 A		
	RX	2.3 A		
	TX	13 A		
Operating Temperature		-22 °F to +140 °F (-30 °C to +60 °C)		
Frequency Stability		±1.0 ppm		
Dimensions (W x H x D) RF Deck + KRK-15B (not including Control Head)		6.73 x 1.89 x 7.24 in. (170 x 48 x 184 mm)		6.73 x 1.89 x 7.72 in. (171.0 x 48.0 x 204 mm)
Weight - RF Deck + KRK-15B (not including Control Head)		3.22 lbs (1.46 kg)		3.66 lbs (1.66 kg)

Receiver		TK-5730	TK-5830	TK-5930
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	63 dB		
	Analog @ 12.5 kHz	71 dB		70 dB
	Analog @ 25 kHz	81 dB		78 dB
Intermodulation		80 dB		
Spurious Rejection		85 dB		
Audio Distortion		2%		
Audio Output Power		4 W/4 Ω (Remote Control Head: 3 W/4 Ω)		

Transmitter		TK-5730	TK-5830	TK-5930
RF Power Output Power		50 to 5 W	45W to 5 W – (Type 1: 450-485 MHz) 40W to 5 W – (Type 1: 485-520 MHz) 40W to 5 W – (Type 2: 380-470 MHz)	30W to 2W (700 MHz) 35W to 2W (800 MHz)
Spurious Emission		-73 dB	-75 dB	-80 dB
FM Hum & Noise	Analog @ 12.5 kHz	45 dB		40 dB
	Analog @ 25 kHz	50 dB		45 dB
Audio Distortion		2%		
Emission Designator		TK-5730/5830: 16K0F3E, 11K0F3E, 8K10F1E, 8K10F1D, 8K10F1W TK-5930: 16K0F3E, 14K0F3E, 11K0F3E, 8K10F1E, 8K10F1D, 8K10F1W		

Mil Standard	810C	810D	810E	810F	810G
Low Pressure	500.1/ I	500.2/ I, II	500.3/ I, II	500.4/ I, II	500.5/ I, II
High Temperature	501.1/ I, II	501.2/ I, II	501.3/ I, II	501.4/ I, II	501.5/ I, II
Low Temperature	502.1/ I	502.2/ I, II	502.3/ I, II	502.4/ I, II	502.5/ I, II
Temp. Shock	503.1/ I	503.2/ I	503.3/ I	503.4/ I, II	503.5/ I
Solar Radiation	505.1/ I	505.2/ I	505.3/ I	505.4/ I	505.5/ I
Rain*1	506.1/ I, II	506.2/ I, II	506.3/ I, II	506.4/ I, III	506.5/ I, III

MIL STANDARD	810C	810D	810E	810F	810G
Humidity	507.1/ I, II	507.2/ II, III	507.3/ II, III	507.4	507.5/ II
Salt Fog	509.1/ I	509.2/ I	509.3/ I	509.4	509.5
Dust	510.1/ I	510.2/ I	510.3/ I	510.4/ I, III	510.5/ I
Vibration	514.2/ VIII, X	514.3/ I	514.4/ I	514.5/ I	514.6/ I
Shock	516.2/ I, II, V	516.3/ I, IV	516.4/ I, IV	516.5/ I, IV	516.6/ I, IV

International Protection Standard	
Dust & Water	IP54, IP55*2

*1: Blowing rain protection for the mobile radio's Remote Control Head only.
*2: IP54: RF Deck of the mobile radio; IP55: Remote Control Head for the mobile radio.

*25/30 kHz in VHF/UHF Bands (except T-Band) are not included in the models sold in the USA or US territories. Analog measurements made per TIA 603 and specifications shown are typical. Digital measurements made per TIA 102CAAA and specifications shown are typical. TK-5730/5830/5930 Mobile SPECIFICATIONS All specifications are subject to change without notice. Please check the website for the latest version. V.02.15.19

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