

KENWOOD

Listen to the Future



TK-290/390

VHF/UHF FM Transceivers

FleetSync[®]
by KENWOOD

GENERAL FEATURES

- 5 W (136-174 MHz)
- 4 W (403-430, 450-490, 470-512 MHz)
- 160 Channels / 16 Channel Groups¹
- QT / DQT
- Dual Priority Scan
- Single & Multi-Group Scan
- 7-Character Alphanumeric Aliases
- Lighted 13-Segment LCD
- Inverting LCD Display
- 3-Digit Sub-Display
- Function / Status LCD Icons
- Transmit / Busy / Call Alert / Warn LED
- 2 Top Panel PF keys
- 2 Side PF Keys
- Orange Emergency / AUX Key (side)
- 2-Position PF Toggle Switch (top)
- 12-Key DTMF Keypad Models
- 500 mW Speaker Audio
- Companded Audio
- Encryption / ANI Board Control
- Emergency Call Features
- Emergency Man-Down Option
- Two-Tone Decode²
- Operator Selectable Tone²
- DTMF Encode / Decode³
- Time Out Timer
- Busy Channel Lockout
- Low Battery Alert
- Battery Saver
- Weather-sealed ACC Connector
- MIL-Spec Speaker Mic Options
- Windows[®] Programming & Tuning⁴
- Windows[®] Firmware Uploading⁴
- Front Panel Test / Tune
- Cloning
- MIL-STD-810 C/D/E/F
- MIL-STD "Driven-Rain"
- Intrinsically Safe Option (USTC)
- MSHA Mine Safety Intrinsically Safe Option

FleetSync^{®5}

- PTT ID Digital ANI⁵
- Emergency Status⁵



*Two models available:
With or without keypad.*

Options

■ KNB-17A

Ni-Cd Battery
(7.2 V, 1500 mAh)

■ KNB-17BK

Ni-Cd Battery
Intrinsically Safe
(7.2 V, 1500 mAh)

■ KNB-21N

Ni-MH Battery
(7.2 V, 1600 mAh)

■ KNB-22N

Ni-MH Battery
(7.2 V, 2100 mAh)

■ KNB-22NC

Ni-MH Battery Intrinsically Safe
(7.2 V, 2100 mAh)

■ KNB-44BK

Ni-Cd Battery MSHA
(7.2 V, 1500 mAh)



■ KBP-4

AA Refillable Battery Pack
(Holds 12 AA-Size Cells)



■ KRA-26

VHF Helical Antenna



■ KRA-27

UHF Whip Antenna



■ KSC-19

Regular Charger
Ni-Cd Charger



■ KSC-24

Rapid Charger
Dual-chemistry
Ni-Cd/Ni-MH Charger



■ KVC-3

Regular Rate
Vehicular Charger
Adapter

■ KVC-4

Rapid Rate Vehicular
Charger Adapter for (KSC-24)
(Charger not included)

■ KEP-1

Earphone Coil Cord Kit



■ KMC-25

Speaker Microphone
(MIL-SPEC, Noise Canceling)



■ KMC-26

Speaker Microphone
(MIL-SPEC, Noise Canceling
and Antenna Connector)



■ KBH-8DS

Swivel Belp Loop
with D-Stub Back Plate



All accessories and options may not be available in all markets.
Contact an authorized Kenwood dealer for details and complete list of all accessories and options.

Specifications

Model	TK-290	TK-390
GENERAL		
Frequency Range		
Type 1	136-174 MHz	450-490 MHz
Type 2		470-512 MHz
Type 3		403-430 MHz
Number of Channels	160	
Channel Spacing		
Wide	25, 30 kHz	25 kHz
Narrow	12.5, 15 kHz (PLL step: 5/6.25/7.5 kHz)	12.5 kHz (PLL step: 5/6.25 kHz)
Battery Voltage	7.5 V DC ± 20 %	
Battery Life (5-5-90 duty cycle)		
With KNB-17A	10 hours at 5W	10 hours at 4 W
Operating Temperature Range	-22 °F ~ +140 °F (-30 °C ~ +60 °C)	
Frequency Stability (-22 °F ~ +140 °F)	±0.00025% ±0.0002%	
Antenna Impedance	50 Ω	
Channel Frequency Spread		
Type 1	38 MHz	40 MHz
Type 2		42 MHz
Type 3		27 MHz
Dimensions (W x H x D), Projections not included	2-5/16" x 6-3/32" x 1-1/2" (58 x 155 x 38 mm)	
Keypad Model	2-5/16" x 6-3/32" x 1-9/16" (58 x 155 x 39.5 mm)	
Weight (net)	1.25 lbs. (565g) with antenna and belt hook	
FCC ID		
Type 1	ALH21893110	ALH21903110
Type 2	-	ALH21903120
Type 3	-	ALH21903130
IC Certification		
Type 1	282195345A	282195341A
Type 3	-	282195393A

Model	TK-290	TK-390
RECEIVER (Measurements made per RS-316-B)		
Sensitivity (12 dB SINAD) (20 dB Quietening)		0.25 µV 0.35 µV
Selectivity		
Wide	75 dB	73 dB
Narrow	70 dB	68 dB
Intermodulation Distortion		
Wide	75 dB	73 dB
Narrow	68 dB	65 dB
Spurious Response	75 dB	73 dB
Audio Output	500 mW with less than 3 % distortion	
TRANSMITTER (Measurements made per RS-316-B)		
RF Power Output		
High	5 W	4 W
Low	1 W	1 W
Spurious Response	70 dB	
Type of Emission		
Wide	16K0F3E	
Narrow	11K0F3E	
FM Hum & Noise		
Wide	45 dB	
Narrow	40 dB	
Audio Distortion		
Wide/Narrow	Less than 3 %	

Kenwood follows a policy of continuous advancement in development.
For this reason specifications may be changed without notice.

FleetSync® is a registered trademark of Kenwood Corporation.

Applicable MIL-STD

Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures
Low Pressure	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II
High Temperature	501.1/Procedure I, II	501.2/Procedure I, II Cat. A1	501.3/Procedure I, II Cat. A1	501.4/Procedure I, II
Low Temperature	502.1/Procedure I	502.2/Procedure I, II Cat. C1	502.3/Procedure I, II Cat. C1	502.4/Procedure I, II Cat. C1
Temperature Shock	503.1/Procedure I	503.2/Procedure I, Cat. A1, C1	503.3/Procedure I, Cat. A1, C1	503.4/Procedure I, II
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I
Rain	506.1/Procedure I, II	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, III
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III
Vibration	514.2/Procedure VIII, X	514.3/Procedure I, Cat. 8	514.4/Procedure I, Cat. 8	514.5/Procedure I, Cat. 20
Shock	516.2/Procedure I, II, V	516.3/Procedure I, IV	516.4/Procedure I, IV	516.5/Procedure I, IV

Footnotes from Front:

¹ Channel Capacity: 16 Channel Groups; 1-160 CH's per group up to 160 Channel Maximum per Radio.

² Two-Tone Decode (3 sets x 2 pairs each); Operator Selectable Tone on Keypad models only (16 QT/DQT code pairs)

³ DTMF encode includes PTT ID, Emergency ANI, Manual Encode (keypad models), Auto-Dial (9 numbers), DTMF Decode includes primary (individual) & Secondary (group) selective call and DBD codes.

⁴ KPG-38D required: Windows®98/NT/2000/Mel/XP compatible.

⁵ FleetSync® is not compatible with FleetSync® II. PTT ID and Emergency Status Encode only.

KENWOOD

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Communications Equipment Division
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ISO9001 certification