

KENWOOD

TK-373G

Trunked Compact FM Portable Radio



- LTR® OPERATION ON UHF
- LARGE 8-CHARACTER LCD DISPLAY
- MULTIPLE SCANNING OPTIONS
- WIDE BAND DESIGN FROM 450 MHz TO 490 MHz
- QT/DQT SIGNALING (CONVENTIONAL MODE) AND DTMF ENCODING
- PROGRAMMING AND ALIGNMENT WITH PC-BASED SOFTWARE
- FIELD PROGRAMMABLE AND CLONABLE
- RUGGED CONSTRUCTION MEETS MIL-STD 810 C/D/E SPECS



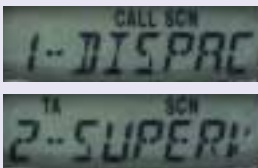
Kenwood's TK-373G — Your Direct Line to Top Performance

Offering LTR® operation on UHF for programming up to 32 systems with 250 groups each and a wide band design for any spectrum allocation on UHF from 450 MHz to 490 MHz, along with a large 8-character LCD display for high visibility and many other beneficial features, Kenwood's new TK-373G trunked compact FM portable radio is indispensable where it counts most — in the field. What's more, world-famous Kenwood quality and a rugged construction that fully meets MIL STD 810 C/D/E specs combine to make this high-performance unit perfect for today's demanding applications.

LTR is a registered trademark of E.F. Johnson Co., MN, USA.

LARGE 8-CHARACTER ALPHA-NUMERIC LCD DISPLAY

The LCD display is clearly visible under any lighting condition from bright sunshine to total darkness (with backlight on). It shows key icon-based status information including system/group number or group name, power level, scan mode, talk around mode, busy, call and telephone (RIC) mode.



TIME-OUT TIMER

For extra operating ease, the time-out timer limits transmission time of the radio to guard against misuse or accidental key-ups. It can be programmed for between 15 seconds and 10 minutes.

TOUGH, LIGHTWEIGHT AND COMPACT CONSTRUCTION

The TK-373G may be compact and lightweight but it's a tough performer that can always be counted on in the field. The textured polycarbonate case resists scratches, impacts and scrapes for long-term integrity while its small size makes it easy to handle and conveniently portable.

MULTIPLE SCANNING FUNCTION

System scan and group scan allow for convenient monitoring of multiple systems and talk groups for calls. Priority scanning is available for programmed conventional systems and Talk Back scan permits users to respond immediately to calls regardless of the pre-programmed or selected scan revert channels. Scan lists can be altered with the Add/Delete features.

BUSY CHANNEL LOCKOUT

In conventional mode, busy channel lockout further improves channel management by preventing transmit while another talk group is already on the air.

WIDE BAND DESIGN

For maximum flexibility, the TK-373G can be used anywhere in the commercial UHF band from 450 MHz to 490 MHz (band-split models available for 450 ~ 470 MHz and 470 ~ 490 MHz).

TALK AROUND FUNCTION

This handy function is especially useful when close-proximity simplex operation is desired, or if the user is outside of system range. It can also be used for trunked mode.





TECHNOLOGICAL FEATURES

Computerized design architecture

Opening up a new world of serviceability, all radio functions can be programmed with a PC utilizing easy-to-use drop-down menus and help screens. This translates into rapid setup and delivery of even the most complex channeling applications. Each conventional channel contains RX/TX frequency, QT/DQT encode/decode and DTMF encode, busy channel lockout and power level information.

Computerized alignment

Computerized alignment enables all transmit and receive adjustments to be made through the PC. This includes frequency adjustment, squelch level, RF power output (Hi/Low), maximum deviation, DQT balance, QT fine deviation, DQT fine deviation, QT VCO balance, DQT VCO balance, QT TCXO balance, DQT TCXO balance, LTR fine deviation, DTMF deviation, and battery charge warning level. Your technician can then print the radio's setup information for future reference.

Sleeve construction

Your technician can get at the heart of the radio by simply removing two screws — the internal chassis then slides out of the case for rapid servicing. The sleeve construction design also results in a stronger unit because the external case is cast as a one-piece shell for the highest degree of structural rigidity.



Programmable power output per group

This handy function allows each group to be programmed for different range requirements or power restrictions. Low settings for localized use have the added benefit of battery conservation (programmable for high and low settings: 4W and 1W).

Screw-mount antenna

The well-designed antenna is an industry standard (1/4" -32) that provides a rugged, secure and electrically sound connection. The antenna connector is integrated into the chassis for optimum stress distribution.

BENEFICIAL FEATURES

Built-in QT and DQT signaling

Built-in QT and DQT signalling help to segregate talk groups so users only hear traffic from other co-group users in their own group. This helps to reduce confusion and keeps the lines of communication clear (conventional mode).

Two-color LED

Provides three instantly recognizable status indications: red for transmit, green for receive, and flashing red for low battery.



Low battery indicator

For extra convenience, the low battery indicator warns the user to recharge soon or get a fresh battery.

MIL-STD 810 C/D/E specs

The TK-373G fully meets MIL-STD 810 C/D/E specs covering physical and temperature shock, vibration, humidity, dust, rain, salt fog, high/low temperature, low pressure, and solar radiation.



Options

KNB-14 Ni-Cd Battery (7.2 V, 600 mAh)	KNB-15A Ni-Cd Battery (7.2 V, 1100 mAh)	KNB-20N Ni-MH Battery	KSC-15 Regular Rate Charger	KSC-16 Rapid Charger	KSC-24 Rapid Charger	KMB-14 Multi-Charger Adapter (for KSC-15/16)	KMB-16 Multi-Charger Adapter (for KSC-24)	KVC-3 Regular Rate Vehicular Charger Adapter (for KSC-15)	KVC-4 Rapid Rate Vehicular Charger Adapter (for KSC-16)	KMC-17 Speaker Microphone	KMC-21 Compact Low-Profile Speaker Microphone	KEP-2 Earphone Coil Cord Kit (for KMC-17/21)	KHS-1 Headset with VOX/PTT	KHS-7 Lightweight Single Speaker Headset	KHS-7A Lightweight Single Muff Headset	KHS-8BL 2 Wire-Palm Mic with Earphone (Black)	KHS-8BE 2 Wire-Palm Mic with Earphone (Beige)	KHS-9BL 3 Wire-Lapel Mic with Earphone (Black)	KHS-9BE 3 Wire-Lapel Mic with Earphone (Beige)	KRA-15 UHF Whip Antenna	KRA-17 UHF Stubby Antenna	KBH-8 Spring-Action Belt Hook (Included)	KLH-112 Leather Case	KLH-6SW Swivel Case Adapter	KBH-8DS Swivel Belt Loop with D-stub Backplate	KWR-1 Water-Resistant Bag
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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

TK-373G	
GENERAL	
Frequency range	
Type 1	450 ~ 470 MHz
Type 2	470 ~ 490 MHz
Number of systems	Max. 32
Number of groups	Max. 250
Number of channels (Conventional mode)	Max. 600
Channel spacing	
Wide/Narrow	25kHz/12.5kHz
Channel step	5kHz, 6.25kHz
Antenna Impedance	50 Ω
Channel spread	
Type 1	20 MHz
Type 2	20 MHz
Operating voltage	7.5 V DC±20%
Battery life (5-5-90), during hi-power	
KNB-14	Approx. 4 hours
KNB-15A	Approx. 8 hours
KNB-20N	Approx. 11 hours
Operating temperature range	-22°F ~ +140°F (-30°C ~ +60°C)
Frequency stability	±2.5 ppm (-22°F ~ +140°F)
Dimensions (W x H x D)	
With KNB-14	2.28 x 5.31 x 1.26 in (58 x 135 x 32 mm)
With KNB-15A	2.28 x 5.31 x 1.38 in (58 x 135 x 35 mm)
With KNB-20N	2.28 x 5.31 x 1.48 in (58 x 135 x 37.5 mm)
Weight (net)	7.8 oz (220 g) radio only
With KNB-14	14.1 oz (400 g)
With KNB-15A	15.5 oz (440 g)
With KNB-20N	14.8 oz (420 g)
FCC ID	
Type 1	ALH29473110
Type 2	ALH29473120
FCC compliance	
Type 1	FCC parts 22,74,80,90,90.210,95
Type 2	FCC parts 90,90.210

TK-373G	
RECEIVER (Measurements made per TIA/EIA-603)	
Sensitivity (12 dB SINAD)	
Wide/Narrow	0.25 μV/0.28 μV
Selectivity	
Wide/Narrow	70 dB/65 dB
Intermodulation distortion	
Wide/Narrow	65 dB/60 dB
Spurious response	60 dB
Audio output	500 mW at less than 10% distortion
TRANSMITTER (Measurements made per TIA/EIA-603)	
RF power output	
Hi/Low	4W/1W
Spurious	70 dB
FM noise	
Wide/Narrow	45 dB/40 dB
Modulation	
Wide/Narrow	16K0F3E/11K0F3E
Audio distortion	Less than 5%

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

Applicable MIL-STD

Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures
Rain	506.1/Procedure II	506.2/Procedure II	506.3/Procedure II
Humidity	507.1/Procedure II	507.2/Procedure II	507.3/Procedure II
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I
Shock	516.2/Procedure I, II, V	516.3/Procedure I, IV	516.4/Procedure I, IV

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