

# KENWOOD

Listen to the Future

## TH-255A

144MHz FM TRANSCEIVER



For simple and dependable communications, Kenwood's TH-255A handheld radio is a wise and cost-effective choice. High output gives transmissions the needed power, while the large speaker ensures reception is loud and clear. Operation is easy thanks to the large LCD panel and direct frequency entry function, and you can rest assured that the security features and sturdy construction will help protect your investment.

### High RF power output

The TH-255A provides 5.5 watts of power for wide coverage, with a choice of High/Low output.

### Large speaker

The large diameter speaker outputs up to 400 mW, which helps to allow clear reception even in noisy workplaces.

### Long battery life

Another welcome feature is 8-hour\* continuous operation with the optional high capacity Ni-MH battery PB-43N.

*\*Battery Life (5-5-90 duty cycle)*

### High-visibility backlit LCD

Backlighting, larger characters, and a battery level indicator all contribute to exceptional ease of use. Easy and simple to operate for both beginners and experienced users.



### Security features

In addition to password-protection at power-on, the keypad can be locked and there's an emergency siren for when assistance is required.

### Rugged construction

The TH-255A meets or exceeds the stringent IP54 dust and splash water standards as well as the MIL-STD 810 C, D, E & F environmental standards in 9 categories – including rain, humidity and shock.



### Other features

- Multiple Scan Functions
- CTCSS (42 subtone frequencies), DCS (104 codes)
- Busy Channel Lock Out, Memory Channel Lock Out
- Memory Shift, Beat Shift
- Channel Display Mode
- Split Channel
- Automatic Simplex Checker (ASC)
- VFO Reset, Full Reset
- Beep On/Off
- High-capacity Ni-MH battery (Optional)
- Reverse
- Auto Power Off
- Time-out Timer
- Alphanumeric Channel Name
- Battery Save

# Options

■ **BT-14**  
Battery Case (6 AA)



■ **PB-43N**  
Ni-MH Battery Pack  
(7.2 V / 1100 mAh)



■ **KSC-24**  
Rapid Charger



■ **EMC-3**  
Clip Microphone  
with Earphone



■ **HMC-3**  
Headset with VOX



■ **SMC-32**  
Speaker Microphone



■ **SMC-33**  
Speaker Microphone  
with 3 Keys



■ **SMC-34**  
Speaker Microphone  
with 3 Keys & Volume Control



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

TH-255A	
GENERAL	
Frequency Range*	
TX	144 - 148 MHz
RX	136 - 174 MHz
Mode	F3E
Number of Channels	100 ch**
Power Requirements	DC 6.0 - 9.0 V (7.5 V nominal)
Antenna Impedance	50 Ω
Operating Temperature	-10° to +50° C
Battery Life (5-5-90 duty cycle) [with PB-43N]	
Hi	8 hours
Low	15 hours
Frequency Stability	±5 ppm
Dimensions [with PB - 43N] (projections included)	58 x 120 x 28.4 mm (58 x 129.7 x 37.8 mm )
Weight	375 g

\*Guaranteed Range: 144-148 MHz  
\*\*Using memory names: 50 ch

TH-255A	
RECEIVER (Measurements made per TIA/EIA-603)	
Circuitry	Double Super Heterodyne
Sensitivity (12dB SINAD)	Less than 0.18 μV
Squelch Sensitivity	Less than 0.13 μV
Selectivity	
-6dB	More than 10 kHz
-40dB	Less than 28 kHz
Intermediate Frequency	
1st IF	38.85 MHz
2nd IF	450 kHz
Spurious Response	55 dB
Audio Output	More than 400 mW (10 % distortion)
TRANSMITTER (Measurements made per TIA/EIA-603)	
RF Power Output (approx.)	
Hi / Low	5.5 W / 0.5 W
Modulation	Reactance modulation
Spurious Emission	Less than -60 dB
Maximum Frequency Deviation	±5 kHz
Audio Distortion	Less than 3 %

Kenwood reserves the right to change specifications and features without prior notice.

# 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 1	500.2 / Procedure 1,2	500.3 / Procedure 1,2	500.4 / Procedure 1,2
High Temperature	501.1 / Procedure 1,2	501.2 / Procedure 1,2	501.3 / Procedure 1,2	501.4 / Procedure 1,2
Low Temperature	502.1 / Procedure 1	502.2 / Procedure 1,2	502.3 / Procedure 1,2	502.4 / Procedure 1,2
Temperature Shock	503.1 / Procedure 1	503.2 / Procedure 1	503.3 / Procedure 1	503.4 / Procedure 1,2
Rain	506.1 / Procedure 2	506.2 / Procedure 2	506.3 / Procedure 2	506.4 / Procedure 3
Humidity	507.1 / Procedure 2	507.2 / Procedure 2	507.3 / Procedure 2	507.4
Dust	510.1 / Procedure 1	510.2 / Procedure 1	510.3 / Procedure 1	510.4 / Procedure 1,3
Vibration	514.2 / Procedure 8,10	514.3 / Procedure 1 Cat 8	514.4 / Procedure 1 Cat 8	514.5 / Procedure 1 Cat 20
Shock	516.2 / Procedure 1,2	516.3 / Procedure 1,4	516.4 / Procedure 1,4	516.5 / Procedure 1,4

# 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.

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