

# KENWOOD

## TM-331A

MOBILE TRANSCEIVER

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herever your destination, you can be sure that Kenwood's proven TM-331A single bander (220MHz) will provide dependable mobile performance.

- 25W RF power output
- Easy-to-read illuminated keys plus large LCD display
- 20 multi-function memory channels plus call channel
- Multi-scan capability
- Tone alert system with elapsed time indicator



### 25W RF power output

Rugged and compact, the TM-331A has an RF output of 25 watts (10W or 5W can also be selected).

### Easy-to-read illuminated keys plus large LCD display

Whether at night or in direct sunlight, smooth operation is facilitated by the ergonomically designed control panel with backlit keys and a large multi-function LCD window. A dimmer controls LCD brightness to suit various lighting conditions.

### 20 multi-function memory channels plus call channel

For mobile convenience, the TM-331A features 20 memory channels for storing frequency, tone/CTCSS frequency, tone on/off status, and REV setting. Of those, 4 channels can store transmit and receive frequencies independently for odd split repeaters.

### Multi-scan capability

The operator can choose from several scan modes: full band scan, programmable band scan, and

memory scan with programmable memory channel lock-out (to skip selected channels during scanning). There are also 2 scan stop modes: TO (time-operated) and CO (carrier-operated). In addition, the AL key activates an intermittent scan of the priority alert channel, sounding a double beep if it is busy.

### Tone alert system with elapsed time indicator

When activated, this function sounds a 10-second beep and displays a bell symbol to indicate an incoming signal. With the optional TSU-6 CTCSS decoder unit installed, tone squelch operation is also possible.

- Built-in CTCSS tone encoder
- Lock function
- Auto repeater offset
- Repeater reverse switch
- Multi-function microphone supplied

## Specifications

TM-331A	
<b>GENERAL</b>	
Frequency Range	TX: 222 - 215 MHz RX: 222 - 215 MHz
Mode	F3E (FM)
Power Requirement	13.8 V DC ±15%
Current Drain (approx.) Transmit (10, 13.8 V) Receive	Less than 65 A Less than 13 A
Ground	Negative
Operating Temperature Range	-20°C - +60°C
Antenna Impedance	50 Ω
Microphone Impedance	500 - 600 Ω
Ext. Speaker Impedance	8 Ω
Dimensions, W x H x D (projections not included)	5-1/2" x 1-9/16" x 9-9/16" (140 x 40 x 100 mm)
Weight (approx.)	2.35 lbs. (1.1 kg)
<b>TRANSMITTER</b>	
RF Output Power	
HI	25 W
MD (approx.)	10 W
LO (approx.)	5 W
Modulation	Phase modulation
Maximum Frequency Deviation	±5 kHz
Spurious Radiation	Less than -60 dB
Modulation Distortion	Less than 3% (200 - 3000 Hz)
<b>RECEIVER</b>	
Circuitry	Double conversion superheterodyne
Intermediate Frequency	
1st IF	3C825 MHz
2nd IF	450 kHz
Sensitivity (12 dB SINAD)	Less than 0.6 μV
Selectivity	
0 dB	More than 12 kHz
-60 dB	Less than 24 kHz
Squelch Sensitivity	Less than 0.1 μV
Audio Output Power	More than 2 W (8 Ω, 6% distortion)

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

These specifications are guaranteed for Amateur Bands only.



ISO 9001  
JQA-1205

Communications Equipment Division  
Kenwood Corporation  
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## Optional Accessories

**MC-80**  
Desktop Microphone

**MC-60A**  
Desktop Microphone

**PS-40**  
DC Switching Power Supply

**PG-3B**  
DC Line Noise Filter

**PG-3G**  
DC Line Noise Filter

**PG-2N**  
Power Cable

**SP-41**  
Compact Mobile Speaker

**SP-50B**  
Mobile Speaker

**KQT-8/TSU-6**  
CTCSS Tone Decoder

**MB 201**  
Mobile Mount

## KENWOOD CORPORATION

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KENWOOD COMMUNICATIONS CORPORATION

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