

 **KENWOOD**

**2 METER
FM HAND-HELD
TRANSCEIVER**

TR-2400



The TR-2400 is a futuristic 2-meter FM hand-held transceiver, incorporating a large LCD readout and highly advanced electronic technology such as a 5-kHz-step PLL synthesized keyboard channel selection system, 10-channel memory, and a variety of frequency control methods (including scanning) designed around a microcomputer. These sophisticated features make the TR-2400 an ideal hand-held to meet all repeater and simplex needs of 2-meter operators.



FEATURES

LARGE, ILLUMINATED LCD DIGITAL FREQUENCY READOUT

Clearly readable even in direct sunlight, and a lamp switch makes it readable in the dark. Virtually no current drain (much less than LEDs), and therefore the display stays on. Shows receive and transmit frequencies and memory channels. Also included in the display are FOUR LCD "ARROW" indicators "ON AIR", "MR" (memory recall), "BATT" (battery status), and "LAMP" switch on.

A VARIETY OF FREQUENCY CONTROL FUNCTIONS

- **KEYBOARD SELECTION** of 5-kHz-step from 144.000 to 145.995 MHz, by pressing four appropriate keys for MHz, 100 kHz, 10 kHz, and 5 or 0 kHz orders.
- **UP/DOWN** function to shift the operating frequency in 5-kHz-steps with in the band.
- **10 MEMORIES** (retained with battery backup). One of which may be used to shift the transmit frequency any desired amount for operation on repeaters with nonstandard split frequencies.
- **AUTOMATIC MEMORY SCAN** to check all 10 memory channels. The scanning function may be selected to stop on **BUSY** (signals present) or **OPEN** (no signals) channels.

- **REPEATER OR SIMPLEX OPERATION** with a convenient mode switch. In repeater operation, the mode switch shifts the transmit frequency - 600 kHz to access most repeaters, or to the frequency stored in "MO" memory to access repeaters with nonstandard splits.

- **REVERSE OPERATION.** A nonlocking switch shifts the receiver to the transmit frequency and the transmitter to the receive frequency. Handy for checking signals on the input of a repeater (to determine if you are within simplex range, for example), and to determine if an "upside down" repeater exists on a particular frequency pair.

- **"C" (STOP) KEY** available to clear the preset frequency, and to stop the scanning during memory scan.

- **TWO LOCK SWITCHES** to prevent accidental frequency change ("F. LOCK") and to prevent accidental transmissions ("TX PTT/STOP") when carrying.

- **TONE SWITCH** to activate the accurate 1750 Hz repeater access tone oscillator.

- **BNC ANTENNA CONNECTOR.** Easy to connect an external antenna.

- **MORE THAN 1.5 WATTS RF OUTPUT,** for reliable repeater or simplex operation, while conserving battery drain.

- **A HIGH-IMPACT PLASTIC CASE AND ZINC DIE-CAST FRAME** are intended to prevent damage from dropping and other strong physical shocks.

- **EXTRA-THIN, HIGH-QUALITY SPEAKER** with humidity-prevention treatment. Provides enough volume and clarity for outdoor use.

- **HIGH-SENSITIVITY CONDENSER MICROPHONE** for clear transmitted audio.

- **PROFESSIONAL DESIGN AND APPEARANCE,** based on human engineering. The style, shape, size, weight, and other specifications of the switches and knobs were carefully considered.

STANDARD ACCESSORIES INCLUDE

- Flexible rubberized antenna with BNC connector
- Ni-Cd battery pack
- AC charger
- Hand strap
- External-microphone plug
- External-standby plug
- Earphone

OPTIONAL ACCESSORIES

- Soft case SC-3
- Model BC-5 DC quick charger for mobile use. (1.5 hours quick charge with new pulse charging circuit.)
- Model ST-1 base stand, which provides
 - 1.5 hour quick charge with new pulse charging circuit.
 - Trickle charge (maintains battery charge for indefinite period)
 - Base-station operation with microphone connector and impedance-conversion circuit for using MC-30S microphone.



ST-1

SPECIFICATIONS

GENERAL

Semiconductor:	Transistors	28
	FET	1
	ICs	18
	Diodes	53
	LCD	1
Frequency Range:	144.000 ~ 145.995 MHz	
Memory Channels:	10 CH	
Mode:	FM (F3)	
Operating Temperature:	-20°C ~ +50°C	
Antenna Impedance:	50 Ω	
Operating Voltage Range:	DC 9.6 V ± 15%	
Power Consumption:	When Backing Up Memory (power OFF)	
 Less than 0.8 mA	
	(Memory back up can be turned off by BU.OFF switch)	
	Receive	Less than 28 mA
	Transmit (output 1.5 W)	
 Less than 500 mA	

Dimensions:	71 (2-13/16) W × 192 (7-9/16) H × 47 (1-7/8) D mm (inch)
Weight:	Approx. 740 g (1.62 lbs) including battery pack

TRANSMITTER SECTION

RF Output:	1.5 W
Modulation:	Variable Reactance Phase Modulation
Maximum Frequency Deviation:	± 5 kHz
Unwanted Radiation:	Less than -60 dB
Microphone:	Condenser Type

RECEIVER SECTION

Receiver System:	Double Superheterodyne	
Intermediate Frequency:	1st IF	10.7 MHz
	2nd IF	455 kHz
Sensitivity:	Less than 0.2 μV for 12 dB SINAD (Less than 1 μV for 30 dB S/N)	
Squelch Sensitivity:	Less than 0.25 μV	
Passband Width:	12 kHz (-6 dB), 24 kHz (-60 dB)	
Audio Output:	More than 200 mW (at 10% distortion and 8 Ω load)	

Note: The circuit and ratings may change without notice due to developments in technology.