



Ranger RCI-2995DX HP

Dual Band AM/FM/SSB Amateur Radio



200 Watts 10 & 12 Meter
Amateur Base Station Radio

Designed to enhance any serious operator's shack, this rack-mounted unit offers exceptional sound quality and large, easy-to-use controls. The RCI-2995DX features AM-FM-CW-SSB modes of operation, variable power, noise blanker, and a built-in heavy-duty AC power supply, providing 200W PeP output. It also includes a rear panel frequency meter output for measuring transmit operating frequency and is now equipped with a built-in fan kit.

Dual panel meters display received signal strength, transmitter power output, and antenna SWR. Clarifier audio tone controls for accurate receiver tuning improve reception under difficult conditions. Pushbutton selection of programming scanning functions and programmable repeater split for FM operation enhances the renewed 10-meter repeater activity.

The RCI-2995DX offers microprocessor-based advanced features typically found in high-end units costing several times as much, including programmable repeater offset and receiver scanning for a quick search of active frequencies. The unit offers three methods of frequency selection, non-volatile memory to store and scan up to ten favorite frequencies, scanning of selected frequency segments or stored frequencies, and front panel frequency selector lock-out.

Additionally, the RCI-2995DX provides an impressive array of design and performance improvements: Updated version model RCI-2995DXHP, New RT5 Mosfet's with AM & SSB 200 Watts PeP power output. An improved receiver: designed for increased sensitivity and image rejection. Double FET balanced mixer: for improved receiver intermodulation rejection. Surface mount components: for increased resistance to shock and vibration.



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- Hi Power 200 Watts PeP AM & SSB Transmit Power Output
- Incorporates a Twin Cooling Fan
- 10 and 12 Meter Bands. 16 Programmable/Erasable Frequencies. Programmable Repeater Split.
- Large 6 Digit Frequency Display With Dimmer.
- Large, easy-to-read dual panel meters
- Improved Receiver Design For Increased Sensitivity And Image Rejections.
- Variable Output Power Control.
- White LED Meter & Color Frequency Display Lights
- Double FET Balanced Mixer For Improved Receiver Intermodulation Rejection.
- Active Frequency Scanner.
- Continuous Duty Built-in AC Power Supply.



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Premium Features:

- 10 & 12 Meter Bands
- New RT5 Mosfet's with AM & SSB 200 Watts PeP power output
- Incorporates a Twin Cooling Fan
- Large Six-Digit frequency display with dimmer
- Large, easy-to-read dual panel meters :
 1. "S" Meter indicates up to 60 dB over S9
 2. Power Scale Calibrated for AM and SSB
 3. SWR Scale
 4. Modulation Percentage Scale for use on AM
- Calibrating SWR meter
- Variable RF Power Output Control - Adjusts Deadkey Power
- White LED Meter & Color Frequency Display Lights
- Roger Beep with On/Off button and Indicator
- Improved receiver design
- Receive Clarifier Control
- 16 programmable frequencies
- Receiver clarifier ($\pm 0.5\text{kHz}$)
- Frequency step adjust: 100Hz, 1Khz, 10Khz, 100Khz, 1000Khz or 10,000Khz
- Continuous Duty Built-in AC Power Supply
- High SWR Alert LED Bar Indicator
- Active Frequency Scanner
- Programmable repeater split / Repeater Offset
- Frequency selector lockout



Incorporates a Twin Cooling Fan



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Technical Specifications

General

Frequency Range	: 12 meter	: 24.890 ~ 24.990 MHz
	: 10 meter	: 28.000 ~ 29.699 MHz
Tuning Steps	:	100 Hz, 1 KHz, 10 KHz, 100KHz, 1 MHz
Emission	:	USB, LSB, CW, AM, FM
Frequency Control	:	Dual Phase-lock-loop Synthesizer
Frequency Tolerance / Stability	:	0.005% / 0.001%
Operating Temperature Range	:	-20°C to +50°C
Microphone	:	Plug-In (6-Pin), 400W Dynamic PTT
AC Input Voltage	:	100/120VAC 60Hz
AC Power Consumption	:	300W
Antenna Connectors	:	Standard SO-239 Type
Meter	:	Meter #1 : Indicates relative RF Power Output/Antenna SWR Meter #2 : Indicates Received Signal Strength/AM Modulation

Transmitter

RF Power Output	:	80W RMS : CW/AM/FM, 200W PeP : AM/USB/LSB
SSB Generation	:	Dual-Balanced Modulation
AM Modulation	:	Class B Amplitude Modulation
FM Deviation	:	±4KHz @ 1KHz 30mV Audio (±5KHz max.)
Clarifier Range	:	±5 KHz
Harmonic & Spurious Emission	:	Better than 60 dB
AM/FM Frequency Response	:	400 to 5000 Hz
SSB Frequency Response	:	400 to 3000 Hz
Output Impedance	:	50 Ohms Unbalanced
Output Indicators	:	RF Meter shows relative RF Output Power



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Receiver

Sensitivity	:	AM/CW : 0.50uV for 10dB S+N/N FM : 0.25uV for 12dB S+N/N USB/LSB : 0.15uV for 10dB S+N/N
AM/FM Selectivity	:	50dB at 10 KHz
SSB Selectivity	:	60dB at 4 KHz
Image Rejection	:	More than 50dB
IF Rejection	:	More than 80dB
Adjacent Channel Rejection	:	>50 dB
Squelch	:	Adjustable-Threshold less than 0.7 uV
Audio Frequency Response	:	400 to 2500 Hz
Distortion	:	Less than 10% at 2Watts Output into 8 Ohms
Adjacent Channel Rejection	:	>50 dB
Cross Modulation	:	>50 dB
Intermediate Frequency	:	10.695MHz (AM-1st, SSB), 455KHz (AM-2nd)
Clarifier Range	:	±5 KHz
Noise Blanker	:	IF Single Gate Type
Audio Output Power	:	More than 3 Watts into 8 Ohms
Built-in Speaker	:	8 Ohms
External Speaker (Optional)	:	Disables Internal Speaker when connected





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Additional Features:

- AM / FM/ SSB /CW / PA modes
- Green/Red LED Indicator for RX/TX
- Volume Control
- Squelch Control
- 1/4" Headphone Jack on Front Panel
- Jacks for PA, External Speaker, CW And Frequency Counter on Rear Panel
- Noise Blanker And Automatic Noise Limiter circuitry
- Four Stage Dimmer Control
- Receive Gain Control
- Mic Gain Control
- Handheld Microphone

Contents :

- Ranger RCI-2995DXCF Transceiver
- 6-Pins Microphone
- Installation Hardware
- User's Manual