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Clear Channel Ranger AR3500 Information Sheet

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10 METER NOVICE ENHANCEMENT IS HERE

And What Better Way to Enjoy DX'ing Than With the All New

AR-3500



Now With Optional Scanning Microphone

Scanning Microphone Features: • Up-Down One Button Scanning • Dual Speed • Scans With Audio On

FRONT PANEL CONTROLS

RF LEDs show relative transmitted strength.
S. LEDs show received signal strength.
CLARIFIER \pm 500 Hz controls both Tx and Rx frequency
SQUELCH quiets background noise.
MIKE GAIN controls transmitted modulation.
ANL automatic noise limiter.
RF GAIN controls receiver sensitivity.
NB noise blanker.

FREQUENCY DISPLAY.
FREQUENCY CONTROL SWITCHES.
MANUAL SWITCH stops automatic functions.
MEMORY SWITCH selects memory channels.
CANCEL SWITCH clears a memory channel.
ENTER SWITCH enters a channel into memory.
SCAN PROGRAM SWITCH starts scanner programming.
MODE DISPLAY shows Rx, Tx or Split mode.

MEMORY CHANNEL DISPLAY shows memory channel selected.
SPLIT SWITCH allows for Tx and Rx on different frequencies.
SPLIT PROGRAM SWITCH for programming split offset.
SPLIT + or - SWITCH selects + or - split offset.
ON-OFF AF GAIN volume control.
MODE SWITCH selects mode of operation.

SPECIFICATIONS

TRANSMITTER

Frequency Range:
28.0000 - 29.9999 MHz
Tuning Steps:
100 Hz, 1KHz, 10KHz, 100KHz, 1MHz
Emission Types:
LSB, USB (A3J), CW (A1), AM (A3), FM (F3)
Carrier Suppression:
better than 40 dB below peak output
Unwanted Sideband Suppression:
better than 50 dB below peak output (1 KHz tone)
Spurious Radiation:
better than 50 dB below peak output
Audio Response:
better than 30 dB below peak output
Frequency Accuracy:
better than + 10 ppm from 0-40 degrees C after 15 minute warm up

Modulation Type:
A3J: Balanced Modulator
A3: Voltage Modulator
F3: Frequency Modulator
Maximum FM Deviation:
5 KHz
Output Impedance:
50 ohms (nominal), unbalanced
Microphone Impedance:
low (500 to 600 ohms)
POWER CONSUMPTION:
30 Watt 6 Amps
100 Watt 25 Amps
POWER OUTPUT:
30W Model CW 30Watts SSB
25Watts PEP
AM 8Watts FM 8Watts RMS
100W Model CW 150Watts SSB
120Watts PEP
AM 30Watts FM 30Watts RMS

Frequency Range:
28.0000 - 29.9999 MHz
Circuit Type:
Superheterodyne, dual conversion
Clarifier Range:
 \pm 500 Hz
Sensitivity:
(CW, SSB and AM figures measured for 10 dB S + N/N)
SSB, AM, CW better than 0.3 μ V
FM better than 0.5 μ V for 12 dB SINAD
Intermediate Frequencies:
1st IF 10.695 MHz
2nd IF 455 KHz
SSB, CW IF 10.695 MHz
Image Rejection:
better than 70 dB
IF Rejection:
better than 80 dB for all frequencies

RECEIVER

Selectivity:
-6dB -60dB
SSB, CW 2.6 KHz 4.6 KHz
AM, FM 6.0 KHz 18 KHz
Noise Blanker:
Switchable six stage high gain type
Dynamic Range:
better than 100 dB
Audio Output Power:
2 watts minimum (into 8 ohms, with less than 10% THD)
Audio Output Impedance:
8-16 ohms
POWER CONSUMPTION:
500 Milliamps
DIMENSIONS
30Watt H - 23/8" W - 7/3/4"
L - 11" WT: 3 LB
100Watt H - 23/8" W - 7/3/4"
L - 13" WT: 5 LB

ACCESSORIES

SP-1 Speech Processor — \$49.95

Variable compression gain up to 110 dB dynamic range; Temperature compensated: 0-70 degrees C; Average audio increased to approximately 90%; Low THD — Full spectrum audio; Variable input control — reduces background noise; Dimensions: 2 1/2" x 1 3/4" x 7/8".

CW Board and Variable RF Output Control — \$39.95

Easy to install board greatly simplifies operation and improves CW performance. In addition to enhancing CW portion this circuit will also allow the operator to vary the power of the transmitter from 1 watt to full output. This new variable power controls AM, FM, SSB, and is compatible with either 30 or 100 watt models. It can be retrofitted into any AR-3300 or AR-3500 transceiver.

Scanning Microphone — \$44.95



CLEAR CHANNEL
CORPORATION

P.O. Box 445, Issaquah, WA 98027 • (206) 392-0419 • Facsimile (206) 392-8413

