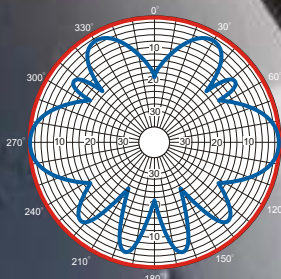


# VHF Ringos - Ringo VHF Base Stations For 150-174 MHz and 220-222 MHz

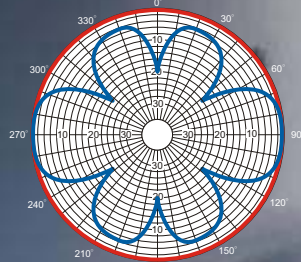
## RINGOS

- ¥ Field tunable
- ¥ DC grounded
- ¥ Seamless hard-drawn aluminum tubing
- ¥ Stainless steel hardware
- ¥ Fast assembly
- ¥ UPS shippable

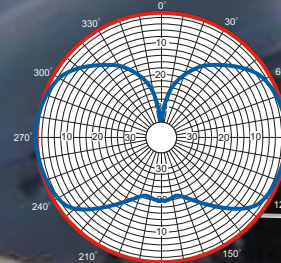
CRX-150B



CRX-150



CRS-150



— H-Plane  
— E-Plane

CRX-150B

These popular omnidirectional antennas have been selected for use with repeaters, talk-around systems, paging systems, security alarms, VHF dedicated systems, 220 trunking systems, and in such applications as police, fire, agricultural and hundreds of others requiring reliability, long life and economy. Field tunable and easy to install, they can be mounted on any vertical tubular support up to 1-1/4 inch (3.2 cm) diameter. Ringo, Ringo Ranger, and Ringo Ranger II can be shipped economically by UPS.

## Ringo Ranger II, CRX-150B and CRX-220B, 6 dBi gain

Our most popular base station antenna is now available in the 220 MHz band. Both the CRX-220B (220-222 MHz) and the CRX-150B (150-174 MHz) feature a full 6 dB gain vs. a quarterwave antenna. The Ringo Ranger II is perfect for trunking or any other system where ease of installation, performance and economy are priorities.

## Ringo Ranger, CRX-150 and CRX-220, 5 dBi gain

Field tunable and easily installed, the CRX-150 (150-174 MHz) and the CRX-220 (220-222 MHz) have 5 dB gain. Installation involves measuring the radiator length and tightening two clamps; the antenna is assembled just that easily. Add a simple adjustment of the tuning rod, and you're ready to go!

## Rugged Ringo CRS-150 and CRS-220, 2 dBi gain

Our Ringo is a single half-wave, end-fed antenna with a matching section featuring a ring inductor. With a frequency range of 150-174 MHz (CRS-150) or 220-222 MHz (CRS-220) and 2 dB gain, the Ringo is completely grounded. It is shipped with a fully assembled base section and requires only adjustment of the radiator tube and simple tuning to be operational. Ringos include stainless steel hardware and radiators fabricated from seamless aluminum tubing.



Close-up detail of Ringo shows stainless steel hardware and connector assembly.



CRS150



CRX150

## VHF RINGO SELECTOR GUIDE

| Model    | Freq. MHz | Gain dBi | VSWR (Nominal) | Bandwidth 1.5:1 MHz | -3dB bandwidth E-Plane' | Connector (Female) | Height In (cm) | Weight lb (kg) | W/sur Area ft' (m²) | W/survival mph (kph) |
|----------|-----------|----------|----------------|---------------------|-------------------------|--------------------|----------------|----------------|---------------------|----------------------|
| CRX-150B | 150-174   | 7        | 1.5:1          | 4                   | 30                      | UHF                | 162 (412)      | 7 (3.2)        | 1.4 (0.13)          | 80 (125)             |
| CRX-150  | 150-174   | 5        | 1.5:1          | 6                   | 36                      | UHF                | 116 (294)      | 5 (2.2)        | 0.5 (0.05)          | 80 (125)             |
| CRS-150  | 150-174   | 2        | 1.5:1          | 7                   | 73                      | UHF                | 45 (114)       | 2 (0.9)        | 0.18 (0.02)         | 80 (125)             |
| CRX-220B | 220-222   | 7        | 1.5:1          | 2                   | 30                      | UHF                | 110 (279)      | 5 (2.25)       | .95 (.088)          | 80 (125)             |
| CRX-220  | 220-222   | 5        | 1.5:1          | 2                   | 36                      | UHF                | 79 (200)       | 3.5 (1.57)     | .34 (.130)          | 80 (125)             |
| CRS-220  | 220-222   | 2        | 1.5:1          | 2                   | 73                      | UHF                | 30 (76)        | 1.5 (.67)      | .122 (.017)         | 80 (125)             |