

NEWSLETTER ARCHIVES

24CM ATV WALK - ABOUT HAT AERIAL

This is a modified skeleton Alford slot antenna with gain of 6dB or so, but still small enough to be mounted on a hat. An unusual feature, is the short circuit ends of the slot, that have been neatly folded inside the end loops to keep the size down. The aerial is simple to construct, even if fiddly with the small Balun & matching stubs. Tuning up should just be a matter of bend adjustments to alter the gap.

Line the hat with tin foil, to reduce any chance of becoming a HOT HEAD. Cut a drinks bottle with suitable tabs to fix onto the hat, to form raydome. This is required as doorways, tend to completely wipe out the aerial when one doesn't duck!

Although I have had lots of comments as to what it looks like, (even from the police at shows) the performance of this aerial has been very good. From low lying ground level with 1 watt of Colour ATV & sound pictures have been received at P2 over 3 miles. From RSGB VHF Convention at Sandown Race course, in the building on the 1st floor, GB3HV at High Wycombe gave a P3 Colour report over a distance of 25 Miles. Pictures from it were being received by the HCATV group on the BATC stand at the rally.

Parts

- 1.4 M 1.5 mm Copper Wire
- 1 M Solder.
- 2 M UR43 Coax
- 1 UR43 coax plug.
- 1 Drinks Bottle (Ray dome) 0.5"x2"dia Expanded Polystyrene
- 1 Hard Hat
- 12" Tin Foil (if no tin hat)
- 1 Idiot to wear it!

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