

VINNANT-ANTENA FOR SATELLITE OPERATIONS

TURNSTILE, TYPE TUR 435/3-S



**Antenna-turnstile-RHCP-70cm-
435Mhz-432Mhz-438Mhz-satellite**

tuned @ 435 Mhz

all modes ,omnidirectional
Antenna is center /432-438 MHZ/tunable
by sliding a reflector a bit up or down.

Antenna is sended in small packet ,easy
assembly needed with manual provided
ON THE END OF THIS PAGE

Technical specifications:

Lenght 25 cm with holder

Width 36cm

Weight 0,45kg

Radiator diameter 8mm

Radials diameter 8mm

Connector N female chassis type

Power handling 80W-teflon balun

Holder bolt 1X M6 ZINC PLATED

mast mountable max 42 mm of diameter

Circular polarization right hand

TUNED FOR 435.000 MHZ

Gain 3Dbd

IMPEDANCE 50OHM

ASSEMBLY INSTUCTIONS:

ANTENNA IS SENT IN SMALL PACKET TO REDUCE THE SHIPPING COST AND
NEED TO BE REASSEMBLED PRIOR TO USE.IT IS DONE IN SIMPLE STEPS:

STEP1:

UNPACK THE ELEMENTS FROM THE FOIL,THE 4 SHORTER ELEMENTS WITH NO
THREAD AND 4 LONGER WITH LONG THREAD AND NUT

STEP2:

SHORT ELEMENTS ARE TOP SECTION PART, PLACE INTO OPENING ONE BY ONE UNTIL IT STOPS, SCREW TIGHT SMALL HEADLESS SCREW WITH PROVIDED ALLEN KEY. YOU MAY NEED TO UNSCREW THE SMALL SCREW FIRST SO IT LET THE ELEMENT INSIDE THE OPENING.

STEP3:

LONG ELEMENTS WITH COUNTER LOCKING NUTS ARE FOR THE BOTTOM SECTION TUNING RING, NEAR THE BRACKET. MAKE SURE THE NUT IS AT THE VERY ONE OF THE THREAD BEFORE PROCEEDING. PLACE EACH ELEMENT INTO THE TUNING RING AND SCREW UNTIL IT STOPS, HAND TIGHT ONLY.

LOCK THE ELEMENT FROM UNSCREWING BY WIND BY COUNTER LOCKING THE NUT AGAINST THE TUNING RING, FIRST HAND TIGHT THEN USE SPANNER NO 13 OR PLYES, TURN THE NUT NO MORE THAN $\frac{1}{4}$ OF THE TURN.

STEP4:

THE ANTENNA IS READY TO BE PLACED OUTSIDE AT THIS POINT. SINCE THE ANTENNA IS QUITE BIG AND HEAVY PLEASE MAKE SURE NOT TO DROP IT AS SOME ELEMENTS MAY BREAK OR BEND. IT IS BEST TO ASSEMBLE THE ANTENNA JUST PRIOR TO THE POLE MOUNTING.

USING THE ANTENNA INDOOR OR BLOCKED BY OBSTACLES, BUILDINGS, PATIO USAGE, THIS WAY WILL REDUCE THE SIGNAL STRENGTH. ANTENNA WILL BE RECEIVING THE BEST WITH 360 VIEW.

TUNING OF THE ANTENNA:

ANTENNA IS TUNABLE TYPE, TUNING IS DONE BY SLIDING THE TUNING RING

UP OR DOWN TO TUNE THE ANTENNA IF NEEDED. SIMPLY LOOSEN THE HEADLESS SCREWS ON TUNING RING BY USING ALLEN KEY NO 2.5 LOOSEN THE RADIALS A LITTLE SO THE TUNING RING CAN BE SLIDED. START MOVING FROM ORIGINAL POSITION IN ABOUT A 5 MM A STEP. MAKE SURE THAT ELEMENTS ARE IN LINE AND MAKE A PERFECT CROSS LOOKING FROM THE BRACKET TO

THE TOP SECTION. IF HAPPY WITH SWR OR CENTER OF THE TUNING, SECURE THE ALLEN SCREWS TO KEEP THE SETTING OF THE ANTENNA.