VINNANT-ANTENA FOR ADS-B OPERATIONS

COLLINEAR, TYPE CC1090/9-P, N CONNECTOR

VINNANT CC1090/9-P

PROFESSIONAL ´´P´´ series

holder type Z5

COLLINEAR SKIRTED PHASED DIPOLE

tuned for 1090Mhz

awesome gain of 9Dbd/11.14 Dbi

DC GROUNDED,CONNECTOR SHOW
SHORT WHEN MEASURING,GREAT
STATIC PROTECTION AND LESS INTERFERENCE

FROM GSM NETWORKS

ANTENNA IS using low loss N FEMALE connector

housed in BLACK FIBERGLASS radome UV stable

antenna is designed for HIGH wind loading

IDEAL FOR OFF SITE MOUNTING

ANTENNA IS PERFECT FOR LONG DISTANCE PLANE POSITION RECEIVING DUE TO LOW RECEPTION AGLE.AS FOR THE LOCAL RECEPTION,IT EXPERIENCE LITTLE TO NO DONUT EFFECT,AND IT IS GREAT FOR LOW FLYING AIRPLANES OR HELIS.FIELD TESTS SHOWS THAT ANTENNA LOSSES CONTACAT WITH HELICOPTER LANDING 5KM AWAY IN HEIGHT OF 250 FEET IN SEMI HILLY ENVIROMENT.HOWEVER,DUE TO LOW AGLE INVOLVED,SOMETIMES HIGH FLYING AIRPLANE AT FOR EXAMPLE FL380 OR ABOVE,RECEIVER MAY LOOSE TARGET FOR VERY SHORT PERIODS OF THE TIME,QUICKLY RECOVERING.

The installation notice:

Make sure antenna is placed as high as possible with no nearby objects at least 50cm away from the other antenna.Antenna need to be on the top of the pole and cannot be placed in the middle of the pole,unless you

use the horizontal stand-off arm,at least FOREMENTIONED 50cm apart from the pole.
Use the high quality 50Ohm low loss cable like H155 OR H1000 and within 10m of lenght maximum.Don´t use the satellite cable as being 75Ohm neither RG58 which is not suitable for this frequency and have high losses.
Don´t use any SO239-PL259 as pigtails for this high frequency.
If you have installation problems or questions please don´t hesitate to contact us.

Technical parameters:

Length 133cm antenna
Gain 9DBI/11.14 Dbi
Weight 0,64kg
pole diameter up to 50mm,min 20mm
connector N female

DC GROUNDED FOR STATIC PROTECTION

TUNED AT 1090MHZ
swr EQUAL OR LESS THAN 1.3@ 1090 Mhz
BANDWIDTH 5MHZ
IMPEDANCE 50OHM

radiation pattern H plane 360 degrees
radiation pattern E plane 16 degrees

radome material:BLACK FIBERGLASS
SURVIVAL WIND RATE: 200KM/h