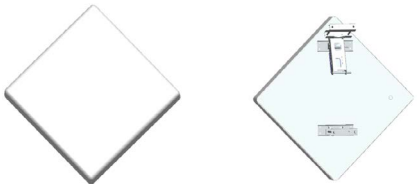
High Gain Directional Antenna

698-960 MHz, 30° Azimuth, 1x Port

Connect, Protect, and Enable™

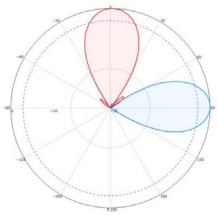
Ventev's high gain directional panel antenna offers a narrow beam (30° HBW) pattern with higher front-to-back ratio and lower VSWR providing efficient performance. The antenna covers 698 to 960 MHz supporting cellular 700, 850, SMR 800, GSM 900 bands and ideal for donor applications in DAS networks. Suitable for outdoor applications, the rugged design offers UV protected radome and broader operating temperature range. The antenna ships with a 2-point heavy-duty hot-dipped galvanized pole bracket that offers up to 25° of down-tilt.



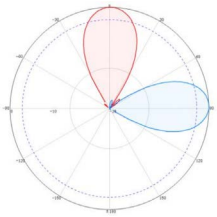
Specifications

SKU	606328
Manufacturer Part Number	VHG-VL3015-ODNF
Operating Frequency Range	698-806/806-960 MHz
Gain	15/16 dBi
Polarization	Vertical
Vertical Beamwidth	29° ± 3°/26° ± 3°
Horizontal Beamwidth	29° ± 3°/26° ± 3°
VSWR	≤ 1.5
Nominal Impedance	50 Ohms
Max Input Power	100 W
Front-to-Back Ratio	≥ 30 dB
PIM, IM3, 2 x 20 W (43dBm)	≤ -153
Number of Ports	1
RF Connector	N Female
Connector Position	Back of Antenna
Application	Outdoor
Operating Temperature	-40 to 140° F
Dimensions	27.6 x 27.6 x 5.3 in.
Weight	32.6 lbs. / 42.5 lbs. with bracket
Radome	White Fiberglass
Mounting Hardware	Heavy-duty hot-dipped galvanized bracket included; 2-3.5 in. OD pole bracket allows 25° down-tilt
Lightning Protection	DC Grounding
Wind Load	134 mph

Radiation Patterns



698-806 MHz



806-960 MHz

Features & Benefits

- High gain narrow beam directional antenna covering 698-960MHz frequency range.
- Supports cellular 700/SMR800/ cellular 850/GSM900 MHz bands.
- Rugged design suitable for outdoor deployments.
- Ideal for donor applications.
- 2-point heavy duty pole mount bracket with adjustable down-tilt included.

RoHS

All product specifications are subject to change without notice or obligation.

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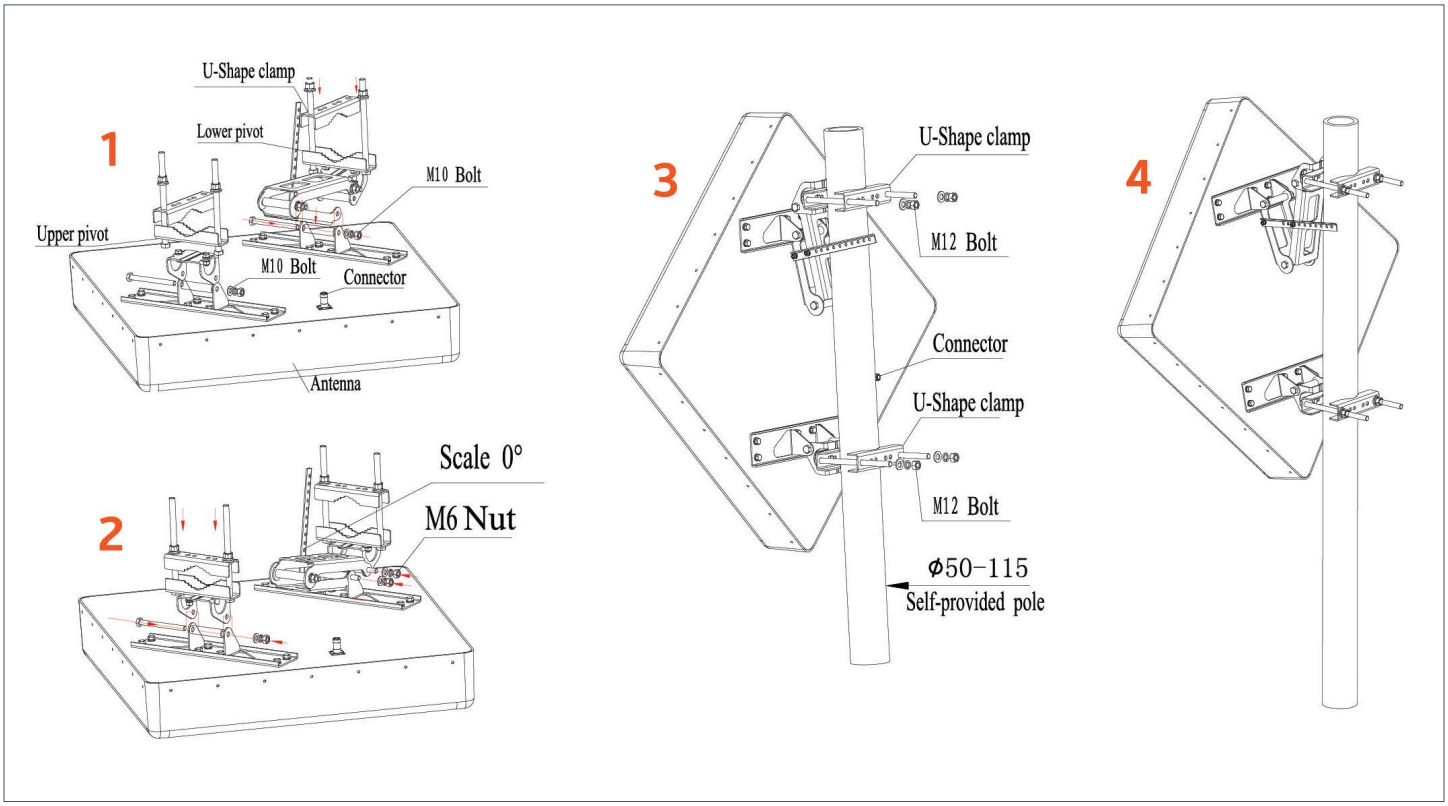
Installation Diagrams



Installation Instructions

1. First install the M10 bolt and u-shape clamp on the upper and lower brackets of the antenna and pre-tighten the M10 nuts.
   Then fasten the brackets to the back of antenna with M10 bolt, torquing the nut to 47N·m.
2. Tighten the scale to the upper bracket with the M6 nut, fix the scale to 0 degree position, torquing the nut to 8N·m. (Above steps must be completed under the tower before installing the antenna).
3. Installing the antenna vertically to the support pole using Ml2 bolt, torquing the nut to 86N·m.
4. Loosening the scale fixing nut on the upper bracket, adjust the mechanical downtilt angle of antenna to the suitable angle based on the scale display, then tightening the scale and all nuts on the bracket.

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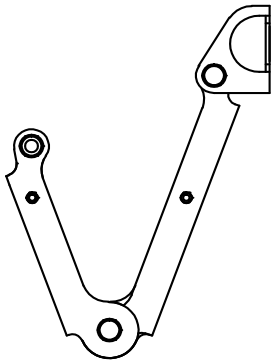
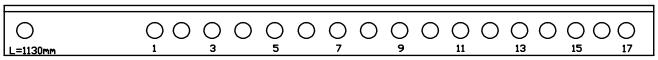
Accessory Diagrams

A-900BZ2A

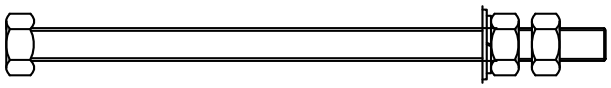
Part#1



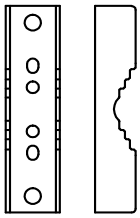
Part#2



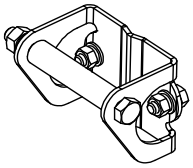
Part#3



Part#4



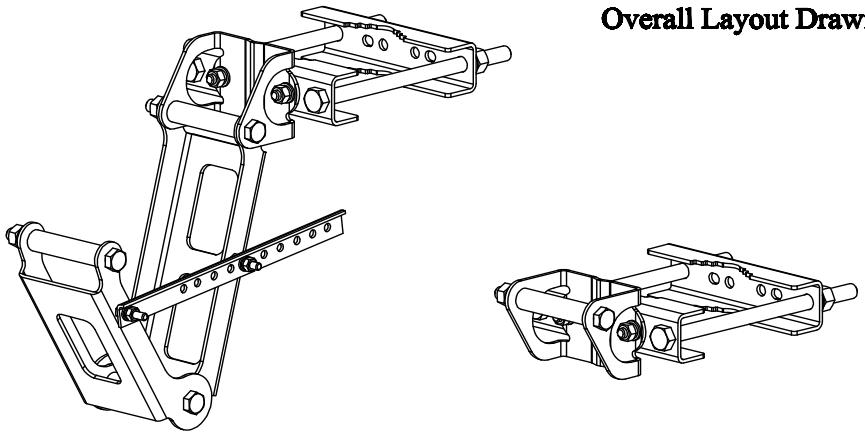
Part#5



Part#6

NO.	NAME	QUANTITY
Part#1	Arm & Seat of Snap in Hanger	1
Part#2	Angle Display(Angle Adjustment plate)	1
Part#3	M12x200 Bolt & Washer	4
Part#4	U-shape CLamp	4
Part#5	Seat of Snap in Hanger	1
Part#6	M8x20 Bolt & Washer	2

Overall Layout Drawing



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