

SRFS TELEINFRA

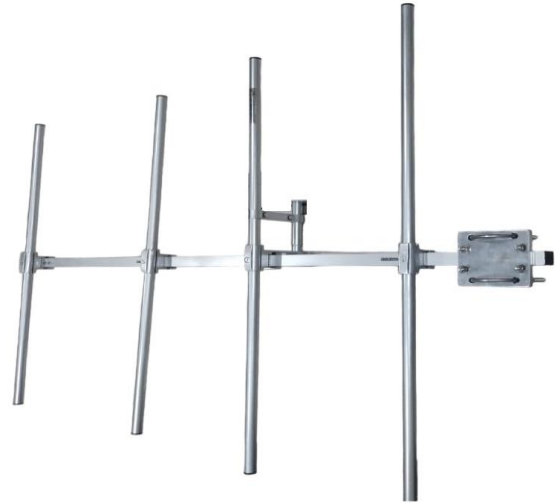
VHF High Gain Yagi Antenna (146-163 MHz)

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Application:

- ❖ VHF band monitoring
- ❖ VHF band Surveillance
- ❖ Digital communication
- ❖ Data and voice communication
- ❖ Point to point communication.
- ❖ VHF band long range communication



Features:

SRFS Teleinfra manufactures Yagi Antenna for VHF band. These Yagi antennas are designed to operate in VHF band i.e., 146-163 MHz. We tune the Yagi antenna feed as per customer operating frequency band and gain requirement. The Yagi antenna is highly directional antenna used in point-to-point analogue and digital communication links. The mounting arrangement of Yagi antenna permits to change the polarization from horizontal to vertical and vice-versa. For high performance assurance we suggest installing our VHF/UHF Yagi antennas at a height of 25-30 feet above the ground level.

INNOVATIONS IN TELECOM WORLD

Fabrication:

Radiating element is made of high-quality brass. Support pipe Boom and all elements are made up of aluminum. We use "GAMMA feed" for yagi antenna tuning which eliminates the use of folded dipole feed. To protect the yagi antenna "GAMMA feed" from external environment we apply a nylon cover. For VHF frequency band all the elements are removable from the boom of yagi antenna. Hence this reduces the shipping cost and size of VHF yagi antenna. These VHF yagi antenna can be assembled on site by single person using a spanner. For UHF & microwave frequency band all elements are fixed with the boom of yagi antenna. So, UHF & microwave yagi antennas are handy, light weight and fast to carry installation process. A N-female connector is fixed on the driving element (dipole) for feed input power. The yagi antenna operates at D.C. ground with low resistance discharge path for protection against lightning and immunity to noise. All the screws, nuts, and bolts of yagi antenna are of stainless steel.

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SRFS Teleinfra | All specifications are subject to change.
SRFS reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal.
It may be necessary to make modifications to the part and/or the documentation of the part to implement improvements.
See www.srfsteleinfra.in for the most current information. Revised: 19 Jan 2023



VHF High Gain Yagi Antenna (146-163 MHz)

Electrical Specifications	
Frequency Band	146-163 MHz
Bandwidth	10 MHz
Gain	13 dBi
Polarization	Vertical or Horizontal
Radiation pattern	Directional
Horizontal Beamwidth	70°
Vertical Beamwidth	50°
Front to Back Ratio	16 dB
VSWR	≤1.8:1
Impedance	50 ohms
Maximum Input Power	250 watts
Lightning Protection	Direct Ground
Mechanical & Environmental Specifications	
Material	Aluminum Alloy
Mounting Hardware	Stainless Steel SS304
Weight	6 Kg
Wind Rating	220 Km/Hr
Length	2500-2800 mm
Support Boom Diameter	22-26 mm (Al-Square pipe)
Elements Diameter	17-21 mm (Al-Round Pipe)
Radiating Material	Brass
Mounting Pipe Diameter	48-53 mm (2" inch)
Connector	N-Female
Operating Temperature	-30° C to 70° C
Humidity	0 to 95% RH

Video Link of How to install VHF High Gain Yagi Antenna:

<https://youtu.be/6uuzPhLUiXk>