



## DESCRIPTION

### Yagi Antenna

The DRT9161 is a high frequency, 12-element YAGI antenna and is useful for many applications including surveillance work, PCS, LAN/WAN and other high frequency applications. Its unique design features allow the antenna to overcome many of the problems normally associated with higher frequency systems.

Performance provides excellent bandwidth, gain and match over the frequency range. The antenna is very small in design and appearance. The rear mounting plate allows both horizontal and vertical mounting of the antenna. The antenna can also be surface mounted. The antenna is made of aluminum and painted for weather protection. The driven element is within a radome. This maintains integrity of the antenna without sacrificing looks or windloading.

# **DRT9161 Yagi Antenna Specifications**

## **Electrical**

<b>Frequency:</b>	1.71 GHz – 1.95 GHz
<b>Impedance:</b>	50 Ohms
<b>Gain:</b>	12 dBi nominal
<b>Bandwidth @2:1 SWR:</b>	200 MHz
<b>VSWR:</b>	2.0, average
<b>Maximum Power:</b>	200 W
<b>E Plane Beamwidth:</b>	25°
<b>H Plane Beamwidth:</b>	24°
<b>Front-to-Back ratio:</b>	19 dB
<b>Lightning-to-Back Ratio:</b>	Elements at DC Ground
<b>Max. Wind Velocity:</b>	100 MPH
<b>Connector:</b>	SMA Jack

## **Mechanical**

<b>Size:</b>	
<b>Length:</b>	64.14 cm (25.25")
<b>Height:</b>	9.14 cm (3.6")
<b>Weight:</b>	0.4 kg (.88 lb.)

Approved by DoD/OSR for public release under 14-S-2166 on 31 July 2014. Data, including specifications, contained within this document are summary in nature and subject to change without notice.

12409 Milestone Center Drive, Germantown, MD 20876-7114  
Phone: 855-401-4185 ~ Fax: 301-916-5787 ~ [www.drtd.com](http://www.drtd.com) ~ [international@drtd.com](mailto:international@drtd.com)