

# AA3100

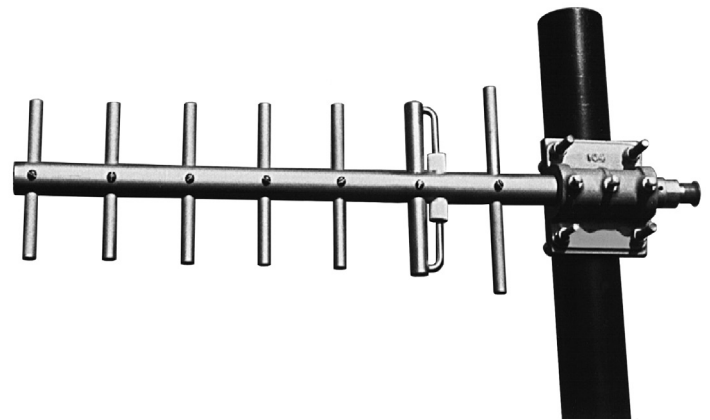
## Yagi Antenna

TransCore's AA3100 Yagi Antenna broadcasts and receives radio frequency (RF) signals in the 915 MHz band.

For installation requiring a relatively symmetrical, three-dimensional reading area, the AA3100 Yagi Antenna offers a broadcast pattern of similar configuration and dimension in both the horizontal and vertical planes.

The AA3100 Yagi Antenna is constructed of aluminum rods and seamless drawn pipe. All aluminum materials are gold-anodized for maximum reliability and corrosion resistance. Hardware and fastenings are stainless steel. A foam potting system seals the internal balun, coaxial feed, and connectors to prevent moisture penetration and ensure long life in severe environmental conditions.

Heavy tenz alloy mounting casting allows installation for vertical or horizontal polarization.



### Features

- ▶ Symmetrical broadcast pattern
- ▶ Rugged weather-resistant construction
- ▶ Vertical or horizontal polarization

### Applications

- ▶ Parking
- ▶ Security access
- ▶ Electronic vehicle registration
- ▶ Traffic management
- ▶ Electronic toll collection

# AA3100 Yagi Antenna

## COMMUNICATIONS

### Frequency Range

902 to 928 MHz

Custom frequencies available on request

### Gain

12 dBi

### VSWR

1.5:1 maximum (1.33:1 typical)

### Polarization

Vertical or horizontal

### Impedance

50 ohms

### Front-to-back Ratio

>20 dB

## HARDWARE FEATURES

### Connector

Type N socket

## PHYSICAL

### Dimensions

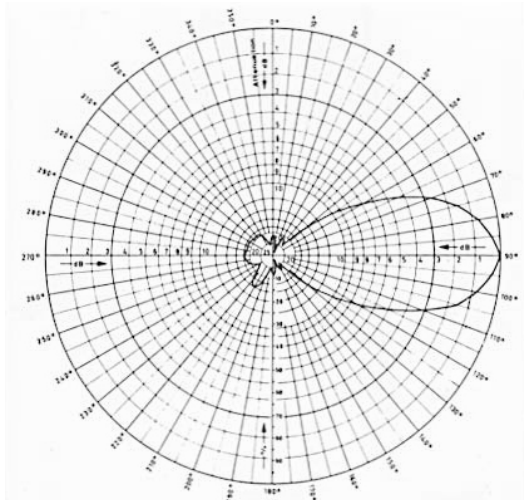
**Size:** 7 x 23 in (18 cm x 60 cm)

**Weight:** 3.3 lb (1.5 kg)

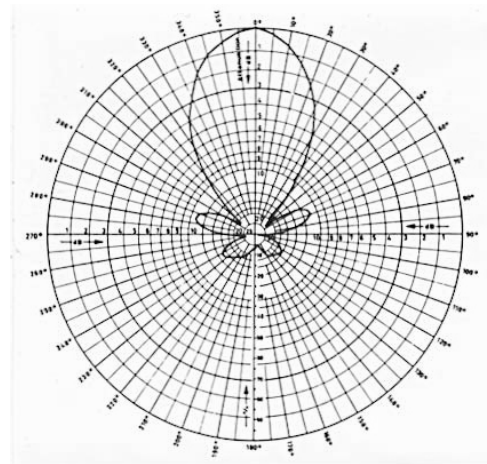
### Mounting Method

Mounted to circular support, max 2.4 in (6 cm) outside diameter

## Antenna Radiation Patterns



Vertical Plane Pattern (vertical polarization)



Horizontal Plane Pattern (vertical polarization)

For more information:

**Sales Support**

800.923.4824

**Technical Support**

505.856.8007

[transcore.com](http://transcore.com)

