

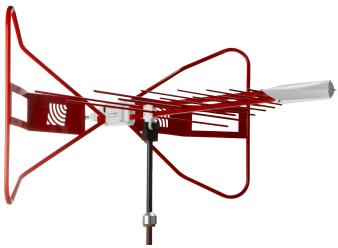
Rentals • Sales • Calibration • Service





### **Features:**

- 30 MHz to 6 GHz Frequency Range
- Avg. 2:1 VSWR Above 50 MHz
- For Emissions and Immunity Testing
- Flexible Mounting
- Individually Calibrated



ETS-Lindgren's Model 3142E BiConiLog Antenna

#### THE MODEL 3142E BICONILOG is

a hybrid antenna that combines innovative design, compact size, and excellent performance. This antenna enables users to measure a frequency range of 30 MHz to 6 GHz in one sweep, negating the need for multiple antennas and time-consuming equipment setup. Accuracy and repeatability are improved, while time and money are saved. This BiConiLog is designed as a dual-purpose antenna that can be used for both immunity and emission testing.

#### **FEATURES**

## **Frequency Range**

The Model 3142E increases the upper frequency limit to accommodate the new upper limit of 6 GHz included in the IEC 61000-4-3 standard.

## **VSWR** Levels

The average VSWR is 2:1 above 50 MHz, an excellent level at this low frequency for an antenna this size.

#### **Emissions and Immunity Antenna**

Emission measurements can be performed without having to change antennas.

For immunity measurements, the 3142E covers the typical 80 MHz to 6 GHz range.

# **Flexible Mounting**

The Model 3142E comes with a bracket that accepts either a 1/4" 20 thread screw or rear stinger mount.

# **Individually Calibrated**

The 3142E is individually calibrated at 10m H pol. per ANSI C63.5.

#### STANDARD CONFIGURATION

- Antenna Assembly
- Mounting Bracket for ETS-Lindgren or Other Tripod Mounts with 1/4" x 20 Threads
- Stinger Mount
- Individually Calibrated at 10m H pol. per ANSI C63.5.
- Actual Antenna Factors and a Signed Certificate of Calibration Conformance Included in Manual
- Manual

#### **OPTIONS**

ETS-Lindgren offers several non-metallic, non-reflective tripods. For easy horizontal and vertical polarization changes, the 7-TR tripod is recommended.





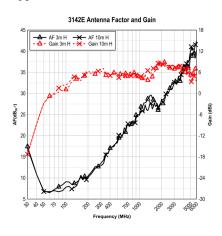
# **Electrical Specifications**

MODEL	FREQUENCY Range	VSWR Ratio (AVG)	MAXIMUM Continuous Power	PEAK POWER	IMPEDANCE (NOMINAL)	CONNECTORS
3142E	30 MHz – 60 MHz 60 MHz – 600 MHz 600 MHz – 1 GHz 1 GHz – 6 GHz	2:1	500 W 1 kW 500 W 200 W	800 W 1.5 kW 800 W 300 W	50 Ω	Type N Female (1)

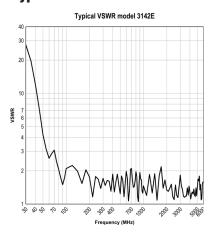
# **Physical Specifications**

MODEL	WIDTH	DEPTH	HEIGHT	WEIGHT
3142E	133.9 cm	139.2 cm	76.2 cm	5.7 kg
	52.7 in	54.8 in	30.0 in	12.5 lb

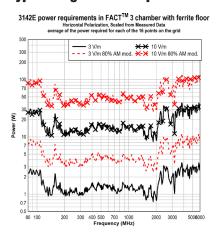
# **Typical Antenna Factors and Gain**



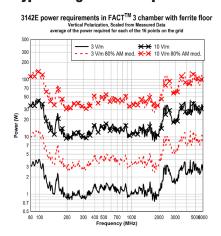
# **Typical VSWR**



## **Typical Avg. Power Required in Horizontal Polarization**



## **Typical Avg. Power Required in Vertical Polarization**



Phone + 1.512.531.6400 ● info@ets-lindgren.com ● www.ets-lindgren.com Offices in the US, Brazil, Germany, Finland, UK, France, India, Japan, Singapore, China, Taiwan