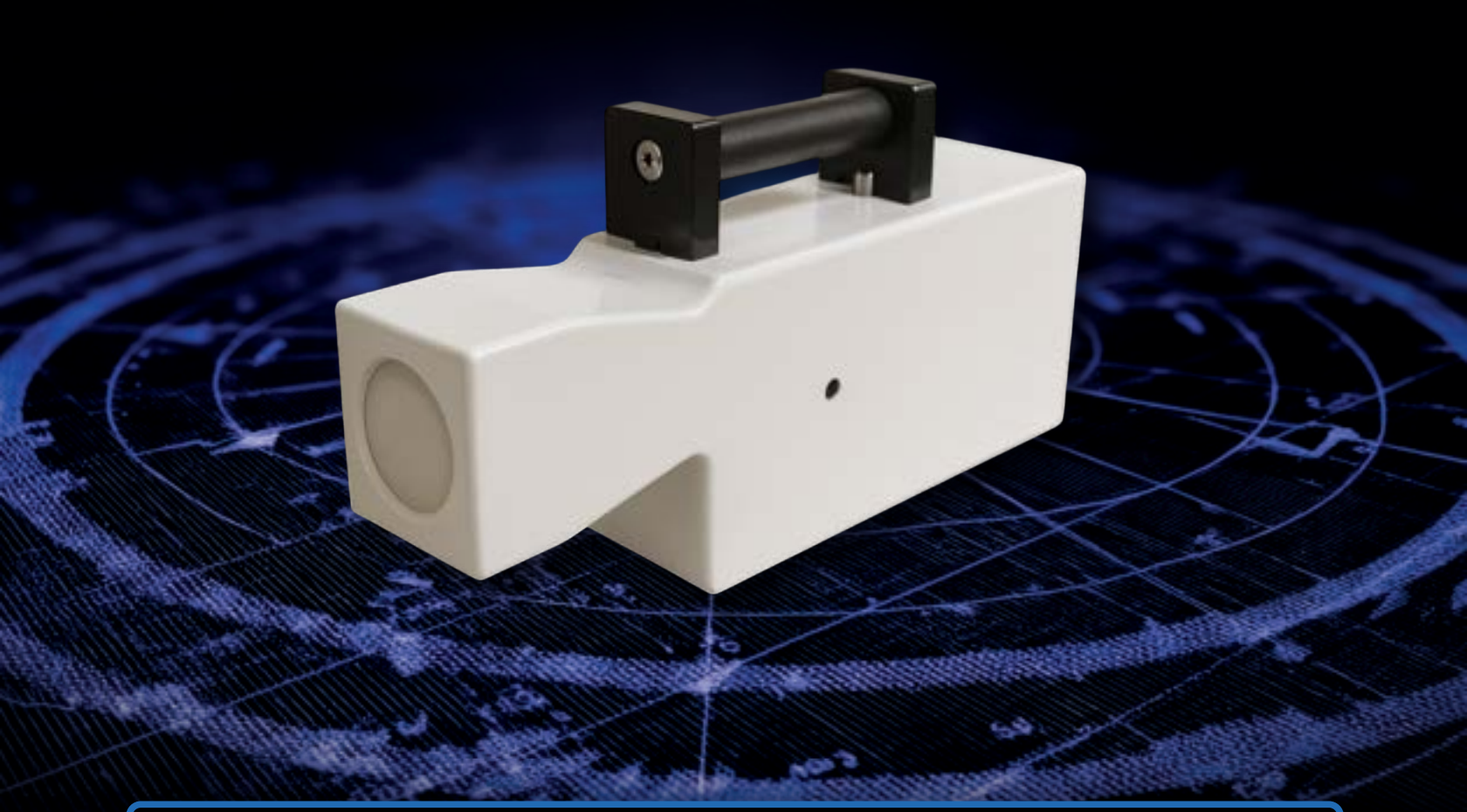
SYDOR

TECHNOLOGIES



INFINITION 94 GHz DOPPLER RADAR BR-9401

COMPLEX MEASUREMENTS—CRITICAL RESULTS

FEATURES

- Specially designed to measure small projectiles in-bore
- For use in short range applications
- In-more measurement of projectiles 6.5 mm or larger

APPLICATIONS

- Ballistic Armor Testing
- Ballistic Gel Testing
- Impact Testing for Body Armor
- Trajectory Tracking

ABOUT THE 94 GHz DOPPLER RADAR BR-9401

The BR-9401 Doppler Radar Antenna utilizes the Doppler principle to measure the velocity of moving objects. It is particularly well suited to measure the velocity of small projectiles in movement in a confined space such as small caliber bore. It will properly read projectiles in bore with a diameter of 6.5 mm and above.

Projectile velocity can be measured inside the gun barrel by using the BR-9401 in combination with a reflector, which is typically a metal surface made of aluminum sheet. Special accessories can be provided to properly align the radar beam and the reflector to achieve optimum results. Typically, in-bore measurement can be performed for 6.5 mm bore diameter and above with this radar model.

The BR-9401 has been designed for short range applications, thus this is not a model for long range measurement. It has been specifically designed to measure inbore acceleration of projectiles inside the barrel for small calibers.

PRODUCT SPECIFICATIONS

- Antenna Gain: 30 dBi typical
- Antenna Type: Lens corrected antenna
- Beamwidth: 4 x 4 degree
- Polarization: Linear
- Transmitter Output Power: +13 dBm
- Transmitter Source: Gunn diode, CW
- Modulation: None
- Frequency: 94.00 Ghz (nominal)
- Precision: ± 0.1% (following guidelines)
- Receiver Noise Figure: ~10 dB
- Radial Velocity Coverage: 30 - 1150 m/s
- Operating Temperature: 0 to 50°C
- Supply: 115 Vac 60 Hz 0.3 A for North American Model; 230 Vac 50 Hz 0.15 A for European Model
- Dimension (antenna head): 16 cm x 30 cm x 8 cm
- Dimension (power supply): 20 cm x 15 cm x 6 cm
- Weight: 6 kg
- Approvals: N/A

INFINITION

Sydor Technologies is a proud distributor for Infinition

COMPLEX MEASUREMENTS—CRITICAL RESULTS