Radar Solution

Active Doppler Radar Reflector
TARGET SIMULATOR



- / High-precision target RCS simulation
- / Pan & tilt platform for accurate reflector positioning
- / High-precision Doppler shift function
- / Full remote control for setup and operation







PAN & TILT ASSEMBLY DIMENSIONS

Length: 57 cm Width: 33 cm Height: 48 cm

X-BAND VERSION CHARACTERISTICS

Radar frequency: 8 - 10.5 GHz RCS range: 0.5 to 35 000 m2 Radial target velocity: 0.61 to 314 km/h

Doppler shift: 0 - 5 kHz

WIDEBAND VERSION CHARACTERISTICS

Radar frenquency: 8 -18 Ghz RCS range: 0.1 to 40 000 m2 Radial target velocity: 0.61 to 1500 km/h Doppler shift: 0 - 30 kHz

APPLICATION

This device has numerous applications in civil and military operations, information assurance, radar technology and security operations. It can be used for radar calibration and commissioning, radar operator training and certification, as well as radar surveillance networks critical design review and factory or site acceptance testing purposes.

From the remote control unit, the target simulator can be pointed at one stationary radar, as well as configured to successively engage several radar systems or dynamically track a single moving radar.

PRODUCT

The standalone target simulator is capable of generating precision Doppler-shifted radar echoes. The strength of the echo can be adjusted from very low radar cross section and Doppler values, mimicking a walking person for instance, to very large ones, simulating a large vessel or aircraft.

The two directional antennas mounted on a pan & tilt platform enable to accurately select the desired radar. In addition, the direction of the Doppler shift can be changed from positive to negative, whether the target is supposed to be approaching or receding from the observer.

The target simulator is compatible with any radar polarization and is remotely setup and controlled using a state-of-the-art software solution and 3G/4G technology.

