DORUK | VR

Vision Radar

RST

DORUK | VR

Vision Radar

DORUK-VR is a cutting-edge Integrated Detection and Surveillance System consists of DORUK 3D Radar, Day/ Thermal Cameras, Laser Range Finder and Laser Designator Components as Fully Integrated System

Specifications

X-Band Pulse Doppler Radar with Pulse Compression

- Multi-target tracking up to 300 targets
- Simultaneous detection & classification
- Track-while-scan capability
- High accuracy and resolution
- Adjustable sector width
- Azimuth Coverage 360°
- Elevation Coverage 55°
- Scanning Rate up to 30 rpm

Detection Range

- Small UAV (RCS = 0.01 m2) ≤ 6 km
- UAV (RCS = 0.1 m2) ≤ 10 km
- Pedestrian ≤ 5 km
- Glider ≤ 20 km
- Big vehicle ≤ 20 km
- Aircraft ≤ 28 km

Thermal Vision (night) Module

- Sensor Type Cooled
- Spectral Range 3–5 µm
- Sensor Resolution 640 × 512 pixels
- Optical Zoom ×22
- Digital Zoom ×4
- Wide FOV (Horizontal) 35.4° ±10%
- Narrow FOV (Horizontal) 1.6° ±10%

Day Tv Module

- Image Characteristics Full HD (1920×1080), Frame Rate > 25 fps
- Picture Mode Color, B&W
- Optical Zoom ×22
- Digital Zoom ×12
- Wide Horizontal FOV 58.1° ±10%
- Narrow Horizontal FOV 2.3° ±10%
- Ultra Low Light Feature

Laser Rangefinder (LRF)

- Wavelength 1064 nm
- Minimum Measuring Distance 100 m
  (For an Object Size of 0.5m x 0.5m and a Meteorological Visibility Range of 10 km)
- Maximum Measuring Distance 20.000 m
  (For an Object Size of 5m x 5m and a Meteorological Visibility Range of at least 30 km)
- Measurement Accuracy ± 5 m

Laser Designator

- Wavelength 1064 nm
- Laser Beam Divergence ≤ 0.5 mrad
- Range Measurement Frequency 1–30 Hz (single pulse)
- Designation Range up to 7 km
- NATO STANAG 3733 Compatible

+90 312 287 01 15
info@rstteknoloji.com.tr
www.rstteknoloji.com.tr

RST | REMOTE SENSING TECHNOLOGIES