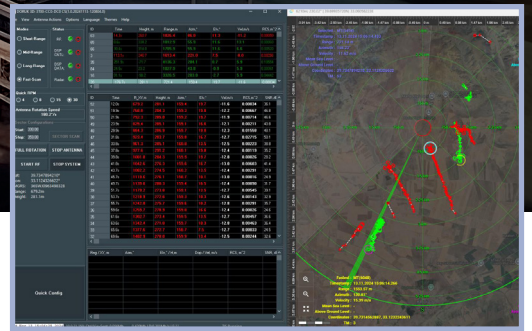




DORUK-VR VISION RADAR

DORUK-VR is a cutting-edge integrated Detection and Surveillance System consists of DORUK 3D Radar, Day/Thermal Cameras and Laser Range Finder components as fully integrated system.

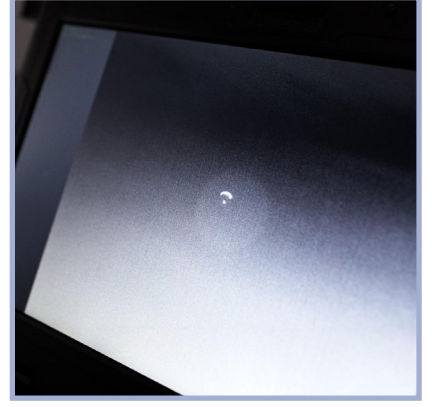


DORUK 3D RADAR SPECIFICATIONS

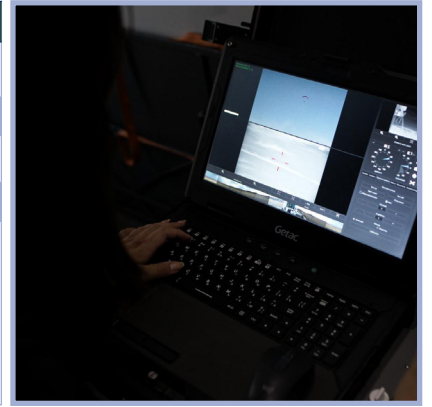
SPECIFICATIONS	REMARKS
Operating Frequency Band	X-Band
Detection (%80 Pd and 10^{-6} Pfa)	Small UAV (RCS=0.01 m ²) @ max. 6 km Human @ max. 15 km Glider @ max. 20 km Big Vehicle @ max. 28 km Mid-size Aircraft @ max. 30 km
Velocity Detection	2 m/sec to 160 m/sec
Elevation Coverage	-5° to +50°
Azimuth Accuracy	< 0.5°
Range Accuracy	< 5 m
Elevation Accuracy	< 1°
Azimuth Coverage	360°
Scanning Rate	Adjustable, 180°/sec
Weight	< 70 kg
Operating Temperature	-30 °C to +70 °C
Simultaneously displaying moving target detection, tracking and classification capability	Max. 300

EAGLE EYE SPECIFICATIONS

Thermal Camera / Infra-Red (IR)	
Elevation Coverage	+/-90
Azimuth Coverage	360°
Lens	Continuous Optical Min Zoom x20
Field of View	2.3 - 44.5 deg - det: 640x512; Zoom x36
Sensors Performance	<ul style="list-style-type: none">• Detection Range: Micro UAS > 1500m, Mini UAS > 3000m, Small UAS > 5000m• Identification Range: Micro UAS 800m, Mini UAS 1500m, Small UAS 3000m



Low Light Camera / Day TV Camera (DTV)	
Elevation Coverage	+/-90
Azimuth Coverage	360°
Lens	Continuous Optical Min Zoom x25
Field of View	2.3 - 58.1 deg - det: 1920x10800
Sensors Performance	<ul style="list-style-type: none">• Detection Range: Micro UAS 3000m, Mini UAS 6000m, Small UAS 9000m• Identification Range: Micro UAS 1000m, Mini UAS 2000m, Small UAS 3100m



Ultra-Low Light Camera (LLC)	
Elevation Coverage	+/-90
Azimuth Coverage	360°
Lens	F/0.85, 45mm ultra-low light fixed focal length lens
Field of View	10.25 deg - det: 752x582
Sensors Performance	<ul style="list-style-type: none">• Detection Range: Micro UAS 600m, Mini UAS 1200m, Small UAS 2000m• Identification Range: Micro UAS 200m, Mini UAS 400m, Small UAS 700m



Laser Range Finder (LRF): This is optional feature	
Wavelength	1.5 um
Range	3 - 12000m
Performance	6000m (NATO standard target 2.3x2.3m, visibility 25km, target reflectivity 30%, detection probability 90%)
Precision	1m

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