



GSS Anti UAV Protection System



Protection system

Day/Night verification of potential treats,
 Video tracking and Gimbal pointing,
 Directional and Omnidirectional RF & GPS Jamming and Immobilization
 Laser video camera jamming, Laser burning,
Operation, monitoring and control of protection system
 Video and Data backlog of events

Laser Burner!

Laser Jammer!

External Detector system, via interface

Panoramic (360deg) Radar (or Electro-optic) Detection and Classification
 of mini UAVs and Quadcopters, monitoring and mapping of threats

FEATURES	APPLICATIONS
RF inhibition • Laser jammer • Laser burner Video and Data Backlog of events Portable • Affordable cost • Low Maintenance Internal Battery • Passive cooled Withstands field environmental conditions	Protection of power stations, airports, locations of national events, government buildings, state borders, stadiums and convention centers against hostile quadcopters and mini UAVs

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ANTI UAV PROTECTION SYSTEM		MAIN PARAMETERS, MODEL : GSS	
Radar minimum target Size (RCS) and Speed	0.005m ² / 5 knots		
Radar Detection range, meters	150 - 3000		
Radar Frequency band	S - band		
Radar Transmitter power, watts	240 (60 x 4)		
Radar Coverage (Azimuth x Elevation)	360° (90° x4) x 80° (+70°/-10°)		
Gimbal Travel Range Azimuth / Elevation	360° (+/-180°) / 60° (+50°/-10°)		
Gimbal Travel Rate / Follow Aim Rate (°/sec)	30 / 15		
Gimbal Position Resolution, mrad	0.1		
Day Camera Type	Color 2/3 CCD HD 1920 x 1080, 60 fps		
Day Camera Zoom	x30 optical, (x3 digital)		
Day Camera FOV horizontal	45° – 1.5° (15° - 0.5°)		
Night Camera Type	MWIR Cooled 640x480x15um, 60 fps		
Night Camera Zoom	X15 optical, (x3 digital)		
Night Camera FOV horizontal	12° – 0.8° (4° - 0.3°)		
Rangefinder Repetition rate	1pps		
Rangefinder Range, m	70 – 3,000		
Rangefinder Eye safety category	Class 1M IEC 825-1 2001-08		
RF Jammer frequency coverage, GHz	0.06–6, 4 bands (GPS, GLONASS, 2.4, 2.4ISM)		
RF Jammer power, W	50 - 100 per band		
RF Jammer High gain antenna beam width	6° @3dB		
Laser Camera Jammer Wavelength	VIS / NIR		
Laser Camera Jammer Divergence	2°		
Laser Burner Type	Single Mode CW Ytterbium fiber laser		
Laser Burner Power	1kW (up to 5 kW optional)		
Laser Burner Eye safety category	Class 4 IEC 825-1 2001-08		
Clear apertures, mm	Laser burner < 200,	Rangefinder < 40 x 100	
	Day camera < 70,	Night camera < 120	
Warm-up time (min)	< 2		
Environmental	-20°C ... +50°C		
Weight (kg)	Optical assembly – 30	Tripod – 10	
	Control unit – 120	Radar – 110	
Power input from Battery or AC/DC adapter	85-132/170-264 VAC 50/60 Hz 10 A		

Specifications in this document are subject to change without notice.



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