

CyberGuard[®] SR3/ESP



High Mobility Security Robot with Enhanced Sensor Package

Specifications for SR3/ESP (refer to Navmaster III data sheet):

Drive	1 hp, 6 wheel, Concentric Shaft Synchro-Drive.
Speed	0.01 to 2.50 ft/sec. [0.003 to 0.762 m/sec.]
Steering Rate	3 to 120 degrees/sec.
Turning Radius	0.0
Clearance (height x width)	75 in. [190.5 cm] x 27.125 in.[69 cm]
Weight (w/ standard systems)	650 lbs.[295 kg]
Maximum Additional Payload	(on hard surfaces) 355 lbs. [161 kg]
Endurance (hard surface)	12 hour min. (w/ standard systems)



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Specifications for high speed camera pan and tilt:

Pan (brushless motor)	Continuous rotation at up to 180 degrees/sec.
Tilt (brushless motor)	+/- 45 degrees at up to 180 degrees/sec.
Scanner (brushless motor)	360 degrees/sec.
Camera tracking	Flame, location, passer-by, intruder and presets

Specifications for ESP Enhanced Sensor Package:

Ultrasonic Intrusion Det.	Uses vehicular sonar in special intrusion modes
Optical Flame Detector (swept at 360 deg./sec.)	Approx. range for match flame 15 ft. [4.6 m] Small paper fire 50 ft. [15 m]
Dual Passive Infrared 4 vertical element arrays (swept at 360 deg./sec.)	8-12 micron wavelength (body temperature) Field of view +15 deg. (up) to - 45 deg. (down) Effective range 50 ft. [15 m] to 150 ft. [45 m]
Microwave Intrusion Radar (swept at 360 deg./sec.)	K-band (>25 Ghz) Field of view +45 deg.(up) to -45 deg. (down) Effective range 25 to 50 ft. [7.6 to 15.2m]
Smoke sensor	Standard ionization sensor (0-100.0% relative)
Gas sensor (Broad spectrum)	Sensitive to Carbon Monoxide, Ethanol, Propane, Isobutane, n-Hexane, Benzene, Methane, and combustion by-products. (0-100.0% relative)
Temperature sensor	0-128.0 degrees Fahrenheit [-17.7 to 53.3 deg. C]
Humidity sensor	0-100% +/- 2% Relative humidity
Ambient light sensor	Upward looking lighting measurement [0-100.0%]
Video level measurement	Reads average illumination in scene [0-100.0%]

Sensor and Subsystem Options:

Video Transmitter	Analog mini-cellular video transmitter, 2.5 GHz.
Voice channel for above	Directional microphone
Aux. gas sensor	Many available sensors including nerve agent.
Oxygen sensor	Relative reading of available oxygen [0-100.0%]
Time Lapse VTR	Alarm control plus 6, 12, and 24 hour TL modes
Inventory tag reader	Reads Savi tags or custom interface provided
Infrared illuminator	Solid state automatic illuminator for up to 50 ft. [15 m]
Optical pyrometer	Measures temperature of objects seen by camera
Zoom lens	8-48 mm motorized zoom with auto-iris

The SR3/ESP represents the *most advanced sensor technology carried by the most capable indoor mobile platform in the world.* Once you have seen the SR3/ESP in action, you will truly understand why we call it the ESP! This SR3/ESP will often direct its camera at an apparently deserted elevator or doorway, only to have someone appear directly in the field of view seconds later! And, it can easily detect dozens of hidden threats such as carbon monoxide or invisible flames as well. With its wide range of standard and optional features, the SR3/ESP can perform an enormous variety of missions from environmental monitoring to inventory control.



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