



3-Track Sensor Specifications



Parameter	Value
Maximal detection range (Wide & reflective object).	Up to 200m
Maximum Detection Range for a low (10%) reflective object	Max. 165m
Maximal detection distance of crawling intruder ($\approx 0.7\text{m}$ object with reflectivity $\geq 30\%$).	150 m
Angular resolution	1 milliRadians (0.057°)
Maximal scanning angle	360° continuously
Required Detection Time (Algorithm at Maximum Performance for low false alarm rate).	2 second.
Number of Tracked Objects	16 simultaneously
Adaptivity to periodically movement objects (trees, bushes, etc.)	Yes
Laser Scanner	
Number of Beams	2
Beam Inclination Angle	$0^\circ \div 5^\circ$ Factory Preset
Scan Rate	$0.75 \div 1.1$ Hz
Pulse Repetition Frequency (PRF)	$4.5 \div 6.6$ kHz
Laser protection class	Class 1 (eye safe)
Wavelength	905nm
MW Doppler Detector	
Mode of Operation	CW Doppler
Frequency	23.8 to 24.5 GHz
Output Power	15mW
Maximal Aperture Power Density	$< 5\text{mW}/\text{cm}^2$

CCTV Day / Night Camera

Picture element	795(H)x596(V):All picture elements 752(H)x582(V):Effective picture elements
Resolution	Horizontal: 520 TV lines Vertical: 400 TV lines
Video S/N ratio	More than 48dB
Image size	1/4" (Approx. 3.6mm x 2.7mm)
Video output level	1.0Vp-p(75Ω, composite)
Minimum Illumination	Color Mode: 1.2 lx (F1.6) at max. AGC gain, 0.04lx (F1.6) at x32 electronic sensitivity boost [50 IRE] B/W Mode: 0.06 lx (F1.6) at max. AGC gain, 0.002lx (F1.6) at x32 electronic sensitivity boost [50 IRE]
Zoom	Electronic:x16,Optical:x22
Lens Functions	Focus length: f=3.6 to 79.2 (mm) (x22 zoom) Aperture ratio: F=1:1.6(wide angle) to 1:3.8(telephoto)
IR Illuminator	
Wavelength	850nm
Spectral bandwidth at 50% of I _{max}	35nm
Beam angle	≈ 6 – 8 °
Output interface	RS485 Half duplex / Dry contact
Mounting Height	0-8m
Installation position	Horizontal ± 17°
Enclosure rating	IP 67
Operating Ambient Temperature	- 30°C ÷ + 50°C
Storage Temperature	- 40°C ÷ + 70°C
Supply voltage	10-15 VDC @ 2.6 A (31 Watt)
Heater Supply voltage	10-15 VDC @ 3.5 A (48 Watt)
Enclosure rating	IP 67
Weight	17.5 Kg
*Dimensions (W x D x H)	380 x 380 x 483 (Ø380 x 480)
* Not include cover	