

	Discoverii Day/Night Laser Illumination Product Portfolio Technical Specifications					
	Discoverii 1000		Discoverii 2000		Discoverii 3000	
Optics Performance	Day	Night	Day	Night	Day	Night
Human Detection:	3000 meters	1500 meters	6000 meters	2000 meters	10,000 meters	3000 meters
Human Recognition:	750 meters	750 meters	1250 meters	1250 meters	2500 meters	2500 meters
Human Identification:	180 meters	180 meters	400 meters	400 meters	1000 meters	1000 meters
Range of 1.8 meter human filling 10% of video screen	940 meters	940 meters	1265 meters 2530 meters**	1265 meters 2530 meters**	5158 meters 10,315 meters**	3000+ meters 3000+ meters**
Range of 1.8 meter human filling 15% of video screen	625 meters	625 meters	843 meters 1687 meters**	843 meters 1687 meters**	3438 meters 6877 meters**	3000+ meters 3000+ meters**
Range of 1.8 meter human filling 20% of video screen	469 meters	469 meters	633 meters 1265 meters**	633 meters 1265 meters**	2579 meters 5158 meters**	2579 meters 3000+ meters**
Range of 1.8 meter human filling 30% of video screen	314 meters	314 meters	421 meters 843 meters**	421 meters 843 meters**	1720 meters 3440 meters**	1720 meters 3000+ meters**
Camera and Lens	Day	Night	Day	Night	Day	Night
Imager	1/4" CCD	1/4" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD
Number of effective pixels	768 x 496 (NTSC) 752 x 582 (PAL)	768 x 496 (NTSC) 752 x 582 (PAL)	768 x 496 (NTSC) 752 x 582 (PAL)	582 x 752 (EIA) 492 x 768 (CCIR)	768 x 496 (NTSC) 752 x 582 (PAL)	582 x 752 (EIA) 492 x 768 (CCIR)
S/N ratio	50 dB	50 dB	50 dB	48 dB	50 dB	48 dB
Horizontal Resolution, TV lines	480 TVL lines	480 TV lines	450 TV lines	570 TV lines	450 TV lines	570 TV lines
Video Output	1.0Vp-p, 75ohm	1.0Vp-p, 75ohm	1.0Vp-p, 75ohm	1.0Vp-p, 75ohm	1.0Vp-p, 75ohm	1.0Vp-p, 75ohm
Imager Horizontal Angle of view	55° (Wide) to 2.2° (Narrow)	6° (Wide) to .6° (Narrow)	11.8° (Wide) to 0.54° (Narrow)**	6° (Wide) to .6° (Narrow)	21° (Wide) to 0.18° (Narrow)**	4° (Wide) to 0.4° (Narrow)**
Continuous optical zoom	26x 3.5 mm - 91 mm	26x 3.5 mm - 91 mm	22x 11.5mm - 253mm 23 mm - 506	22x 11.5mm - 253mm 23 mm - 506	60x 12.5mm - 750mm 25mm - 1500mm**	60x 12.5mm - 750mm 25mm - 1500mm**
Iris Range	F1.6 to F3.8	F1.6 to F3.8	F1.6 to F2000 OR F3.2 to F4000**	F1.6 to F2000 OR F3.2 to F4000**	F3.8 to F3000 OR F7.6 to F6000**	F3.8 to F3000 OR F7.6 to F6000**
Pan-Tilt	All Models					
Payload Capacity	Discoverii 1000: up to 25 lbs, Discoverii 2000/3000: up to 70 pounds					
Pan speed	.0064 degrees per second to 100 degrees per second					
Positioning precision	.0064 degrees with microstep					
Max tilt speed	50 degrees per second					
Pan Limits	350 degrees with hard stops / + or - 175 degrees					
Tilt Range	-30 degrees to +90 degrees from upright (120 degrees range)					
Duty Cycle	Up to 100% duty cycle, or 3-5 million cycles					
Speed Variability	On-the-fly speed and position changes					
Packaging & Environmental	All Models					
Head Unit Dimensions	Discoverii 1000: 14" H x 27.5" W x 24" D, Discoverii 2000/3000: 18" H x 36" W x 27.5" D					
Electronics Unit Dimensions	18.92" H x 22.4" W x 10.2" D					
Weight	Discoverii 1000: 27 lbs., Discoverii 2000: 35 lbs., Discoverii 3000: 41 lbs., Electronics Unit: 35 lbs. for all models					
Environmental Rating	IP65 (6 = Totally protected against dust, 5 = Protected against low pressure jets if water from all directions)					
Power Requirements	115/230 VAC, up to 410W (50W with extended heaters)					
Operating Temperatures	Day: -20° C to +50° C; Night: -20° C to +40° C (see extended temperature options below)					
Communications	All Models					
Video Connection	Analog video or IP video					
Control Connection	RS422 serial cable or Ethernet (via Axis control servers)					
Control Protocols	Pelco-D, ICD-100, or SDK available to connect directly to the Vumii application programming interface (API)					
Additional Options	All Models					
Wash/Wipe	Washer pump and Wiper kit for head unit enclosures					
Extended Temperature	Extended double heaters for extreme cold environments to -30° C as well as enclosures to allow for up to +55° C					
Global positioning	Geo-pointing module for pan-tilt mechanism (hardware or software option)					
Stabilization	Hardware/software module for video stabilization					
Thermal	Integrated uncooled or cooled thermal wide-view channel					
Radar	Drivers available for integrating to several compatible radar systems					
Head Unit Housing	Optional stainless steel head unit housings available					
Explosion proof	Hazardous Area Explosion Proof Housing					
Light/Sound	Integrated directional light or sound annunciator					
Mounting	Various pole and side mounting options available, as well as adapter kits to existing infrastructure					

** Using 2x extender