

Specifications

Model	EPN4122 (Outdoor) EPN4122i (Indoor)	EPN4220 (Outdoor) EPN4220i (Indoor) EPN4220p (PoE Outdoor) EPN4220pi (PoE Indoor)
Camera		
Image Sensor	1/3" Panasonic CMOS	1/3" Sony CMOS
Megapixel	1.3 MP	2 MP
Scanning System	NTSC / PAL	NTSC / PAL
Min. Illumination	0.5 lux at F1.6, color 0.095 lux at F1.6, B/W	0.5 lux at F1.6, color 0.095 lux at F1.6, B/W
S/N Ratio (AGC OFF)	> 50 dB	> 50 dB
Electronic Shutter	256 ~ 1/60,000 sec	1 ~ 1/10,000 sec
Memory Card	Micro SD / SDHC	Micro SD / SDHC
Lens		
Auto Iris	DC Iris	DC Iris
Aperture	F1.6 ~ 3.2	F1.6 ~ 3.5
Focus Length	f=4.7mm (W) ~ 103.4mm (T)	f=4.7mm (W) ~ 94mm (T)
Optical Zoom	22x	20x
Digital Zoom	16x	10x
Angle of View (H)	58.16° (W) to 2.9° (T)	54.1°(W) to 2.9°(T)
Day / Night	Yes (with removable IR-cut filter)	Yes (with removable IR-cut filter)
Video		
Video Compression	H.264 / MJPEG	
Picture Resolution	1920 x 1080, 1280 x 1024 (only for EPN4220 / 4220i / 4220p / 4220pi) 1280 x 960 (only for EPN4122 / 4122i) 1280 x 720, 1024 x 768, 720 x 480, 704 x 480, 640 x 480, 352 x 240, 320 x 240	
Frame Rate	30 FPS (NTSC), 25 FPS (PAL)	
Video Output	1Vp-p / 75ohm	
Audio		
Audio Streaming	Two-way audio	
Audio Compression	G.711	
Audio Input / Output	3.5 mm phone jack	

PAN / TILT Control	
Horizontal Rotation Speed	0.01°/s ~ 360°/s (1-255 grade shift gears)
Manual Pan/Tilt Speed	Pan: 0.01° ~ 180°/s ; Tilt: 0.01° ~ 180°/s
Position Accuracy	± 0.1°
Horizontal Rotation Range	360° unlimited rotation
Tilt Rotation Range	90° pendulum motion
Auto Speed Control	Control speed auto-adjusted according to zoom length changing
Auto Pan, 2 Points Scanning	Can set freely
Auto Pan Speed	1 ~ 255 grade available, 0.01°/s ~ 360°/s
Dwell Time (2 points)	1 ~ 99 second available
Preset Positions	192 positions
Running to Position Speed	1 ~ 255 grade available, 0.01°/s - 360°/s
Dwell Time at Preset Position	1 ~ 99 second available
Tour	16 groups
Tour Point per Group	16 preset positions
Pattern	4 patterns with 90 sec long each
Network	
Interface	10 / 100 Base-T Ethernet, RJ-45 socket
Supported Protocols	HTTP, TCP / IP, FTP, SMTP, DHCP, DNS, DDNS, NTP
Bandwidth control	Min. 256 k Byte/sec adjustable
Alarm	2 in 2 out triggered by intelligent event and external input
Other Function	
Focus Control	One Push / Auto / Manual
Iris Control	Auto / Manual
True Day & Night	Yes (Auto / DAY / NIGHT)
Auto Gain Control	Yes (Auto / Manual)
Backlight Compensation	Yes (OFF / ON)
Highlight Compensation	Yes (OFF / ON) * only for EPN4122/4122i
Wide Dynamic Range	Yes (OFF / ON)
Dynamic Noise Reduction	Yes (OFF / Low / Mid / Hi)
White Balance	Auto / Indoor / Outdoor / One Push / Manual
Motion Detection	Yes (4 zones)
Privacy Zone Masking	Yes (4 zones) Yes (8 zones)

General		
Power Source	24 VAC~	24 VAC~ (EPN4220/4220i) PoE IEEE802.3at Class 4 (EPN4220p / 4220pi)
Power Consumption	30W Max	30W Max (EPN4220/4220i) 25W Max (EPN4220p / 4220pi)
Operating Temperature	-40°C ~ +50°C ≤ 95% / -40°F ~ +122°F ≤ 95% (outdoor) -5°C ~ +50°C ≤ 85% / 23°F ~ +122°F ≤ 85% (indoor)	
Safety	CE, FCC	
Vandal-Proof	IK10 for outdoor models	
Weather-Resistant	IP66 for outdoor models	
Dimensions (W x H)	180 x 280 mm / 7.1 x 11 in (outdoor) 159 x 230 mm / 6.3 x 9.1 in (indoor)	
Weight	Approx. 3.0 kg / 6.62 lbs	