

**IP MEGA PIXELS NETWORK MINIATURE CAMERA**

**Key Features( Camera )**

- 1/3" Sony Exmor Mega Pixel Image Sensor
- DNR(Digital Noise Reduction)-2D,3D
- DWDR(Digital-WDR), BLC
- Motion Detection Max. 4 Area
- Privacy Function 8 Programmable Zones
- PoE Support IEEE802.3af Class 0
- ONVIF Conformance Support



MODEL	VVK-N2046	VVK-N3046
Image Device	1/2.8" Sony Exmor 2.3 MegaPixel Image Sensor	1/3" Sony Exmor 3.23 MegaPixel Image Sensor
Effective Pixels	1920(H) × 1080(V), 2.07 Mega Pixels	2048(H) × 1563(V), 3.15 Mega Pixels
S/N Ratio	51dB	54dB
Scanning System	Progressive Scan	
Privacy Zone	On / Off ( 8 Area Selection )	
Motion Detection	On / Off ( 4 Area Selection )	
Day & Night	Automatic, Day, Night	
DNR	2D-NR, 3D-NR	
WDR	Digital WDR (ATR-EX)	
High Speed Shutter	Automatic: Min. 1/135,000 sec ~ Max. 1/60 sec Manual: Min. 1/10,000 sec ~ Max. 1/10 sec	
Gain Control	Automatic: Min. 1.2dB ~ Max. 54dB Manual: Min. 1.2dB ~ Max. 54dB, Default 1.2dB	
White Balance	ATW-Indoor/Outdoor, Shade, Clear sky, Fluorescent light, Light bulb, Flame, Manual	
Language	•ENGLISH •KOREA •JAPANESE •RUSSIAN	
Digital Zoom	16x	
Minimum Illumination	Color Mode: 0.15 lx at 50IRE/30fps , BW Mode: 0.09 lx at 50IRE/30fps	
Lens Type	Fixed / Flat pinhole / Cone pinhole	
Power Input	DC 12V ± 10% / 500mA	
Power Consumption	DC 12V / 300mA	
Operating Temperature	- 10 ℃ ~ +50 ℃	
Storage Temperature	- 20 ℃ ~ +60 ℃	
Operating Humidity	Less than 90%	
Dimension	46(W) × 46(H) × 16(D)mm	
Weight	Approx. 400(g)	

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Category		VVK-N2046	VVK-N3046
Hardware	Ethernet Interface	RJ-45 (10/100 BASE-T)	
	Audio	-	
	PoE Support	IEEE802.3af Class 0	
Alarm	Input	-	
	Output	-	
Video	Video Compression	H.264(High, Main, Base line profile), MJPEG	
	Resolution	1920x1080(Full-HD), 1280x1024(SXGA), 1280x720(HD), 704x480(4CIF/NT), 704x576(4CIF/PAL), 640x480(VGA), 352x288(CIF), 320x240(QVGA)	2048x1536(QXGA), 1920x1080(Full-HD), 1280x1024(SXGA), 1280x720(HD), 704x480(4CIF/NT), 704x576(4CIF/PAL), 640x480(VGA), 352x288(CIF), 320x240(QVGA)
	Max. Framerate	Up to 30fps@1920x1080p	Up to 30fps@2048x1536p
	Streaming	Simultaneously H.264 and MJPEG (Triple Streaming) Independent Frame Rate and Bandwidth Control, VBR/CBR Mode	
Audio	Audio Compression	-	
Network / Protocol	IP	IPv4	
	Protocol	TCP/IP, UDP, IPv4/v6, HTTP, HTTPS, FTP, UPnP, RTP, RTSP, RTCP, DHCP, ARP, Zeroconf	
	Streaming Method	RTP over RTSP, Unicast RTP, Multicast RTP	
	ONVIF Conformance Support	Ver2.4	
	DDNS Support	Yes	
etc.	FTP Uploading	MJPEG Still Image	
	Event In	Onboot/Trigger/Network Loss/Tampering/Motion	
	Event Out Notification	E-mail, FTP	
	Login Authority	Administrator, Operator, Guest	
	Event Buffering	FTP : Pre/Post Event Time: 0~30sec, FPS: 1~2 fps	
	Manual Trigger	Still Image Capture	
	Security	Multi User Authority, IP Filtering, HTTPS	
	Network Time Sync	Synchronize Computer/NTP Server, Manual	
	Software Reset	Restart, Reset, Factory Default	
	Auto Recovery	Backup, Restore	
	Max. User Connection	10 Users	
	SD Card	-	
	Alram Control	-	
	SDK Support	API, ONVIF Profile S Compliant	