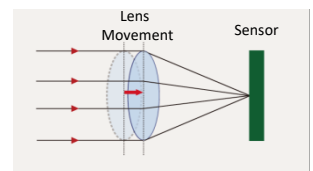


- ▶ Zoom lens/ Motorized lens available
- ▶ Auto Focus function
- ▶ High Dynamic Range (HDR)
- ▶ Remote Zoom / Focus / IRIS control on AF lens
- ▶ Dual IRIS support (Auto-IRIS & P-IRIS)
- ▶ IK10
- ▶ Triple power support (PoE/ DC12V/ AC24V)
- ▶ Quick connection mounting
- ▶ IR LED built in



## Auto Focus

R3-F can perform fast, reliable auto focus and can adapt to different indoor and outdoor scenes through its unique algorithm. As auto focus can be done by camera itself, no on-site focus adjustment is required.



## IK 10

R3-F series rugged dome camera is protected against punishing weather, vandals, vibration and shock. Its durability translates into better reliability and usability by reducing maintenance time.



## Features

- Multiple Progressive Scan CMOS Sensor support up to 4M Resolution
- Multi Exposure HDR
- Multi Codec support (H.265 / H.264 / MJPEG)
- Low Latency Streaming
- Quad Streams support
- True Day/Night function (ICR)
- IR LED (working distance up to 40m)
- BNC Analog Output for installation support
- 3D Motion Compensated Noise Reduction (MCTF)
- Smart Event function- External Input/ Motion Detection/ Network Failure Detection/ Tampering Alarm/ Periodical Event/ Manual Trigger/ Audio Detection
- Text Overlay and Privacy Masks
- Micro SD/SDHC/SDXC Card support
- ONVIF Profile S/G/Q support
- Smart Low Bitrate control
- Weatherproof (IP66)
- Vandal Proof (IK10 Rating)
- Zero-Down-Time(ZDT) Power Switching

## Custom Specification ( Default )

Omni Vision 4M		
Image Sensor	Omni Vision 4M 1/3" Progressive CMOS	
Effective Pixels	HxV = 2720x1536(4M)	
Pixel Size	2.0 μm	
Frame Rate (Maximum)	H.265 HDR 4M @30fps + d1 @30fps	
	H.264 HDR 4M @30fps + d1 @30fps	
	MJPEG 1080p @30fps	
Lens : Default		
Minimum Illumination	Color	0.1 lux
	B/W	0.01 lux
Lens	Motorized Lens	focus, zoom, P-Iris, F1.6
	Focal Length	2.7-12mm
	Horizontal FOV	99° (wide), 31° (tele)
	Vertical FOV	53° (wide), 18° (tele)

## Common Specification

Camera	
Day and Night	Automatically removable IR-cut filter
Shutter Time	1~1/10K sec.
HDR	Yes
EIS	No
Zoom	Optical zoom, digital zoom ready by lens type
Image Settings	Color, Brightness, Sharpness, Contrast White Balance, Exposure Control 2DNR, 3DNR, NR by Motion Masking, Text Overlay
Corridor Mode	90°, 180°, 270° rotation
Video Codec	
Compression	H.265/H.264/MJPEG
Streaming	Up to 4 individually configurable streams in H.265/H.264/MJPEG Configurable resolution/frame rate/bandwidth LBR/VBR/CBR in H.265/H.264
Audio Codec	
Compression	G.711 / G.726 / AAC / LPCM
Streaming	2 way
Audio Input	Line in
Audio Output	Line out
Network	
Interface	10/100Mbps Ethernet
Security	User Authentication/HTTPS/IP Filter/IEEE 802.1x
Supported Protocols	ARP, PPPoE, IPv4/v6, ICMP, IGMP, QoS, TCP, UDP, DHCP, UPnP, SNMP, SMTP, RTP, RTSP, HTTP, HTTPS, FTP, NTP, DDNS
ONVIF	Profile S / G / Q conformant
System Integration	
Analytics	Motion Detection/Tampering/Audio detection
Event Triggers	External Input, Analytics, Network Failure Detection, Periodical Event, Manual Trigger
Event Actions	External output Activation Video and audio recording to edge storage File Upload : FTP, network share and email Notification : HTTP, FTP, email

General	
Casing	Metal Body
Power	PoE IEEE802.3af, class 0 DC12V, 1.14A, max 13.68 watt AC24V, max 13.68 watt
Connectors	RJ45
	Alarm in x1, Alarm out x1, Terminal Block
	DC12V Terminal Block
	AC 24V Terminal Block
	Audio in Terminal Block
	Audio out Terminal Block
	CVBS Connector
IR Illumination	Illumination distance: 40m
Storage	Support for microSD/microSDHC/microSDXC card Support for recording to NAS
Operating Conditions	-30°C~55°C (-22°F~131°F) without heater -55°C~55°C (-67°F~131°F) with heater 10%~90%, No Condensation
Storage Conditions	-20°C~70°C (-4°F~158°F)
Approvals	EMC CE / FCC
	Safety LVD
	Environment IP66, IK10
Dimensions	Ø133.8x117.4 mm
Weight	760 g

## Custom Specification

Default

Omni Vision 4M, Lens Type 1			Omni Vision 4M, Lens Type 2		
Image Sensor	Omni Vision 4M 1/3" Progressive CMOS				
Effective Pixels	HxV = 2720x1536(4M)				
Pixel Size	2.0 μm				
Frame Rate (Maximum)	H.265 HDR 4M @30fps + d1 @30fps H.264 HDR 4M @30fps + d1 @30fps MJPEG 1080p @30fps				
Lens	Type 1 (Motorized Lens)		Type 2 (Zoom Lens)		
Minimum Illumination	Color B/W	0.1 lux 0.01 lux	Color B/W	0.1 lux 0.01 lux	
Lens	Motorized Lens	focus, zoom, P-Iris, F1.6	Zoom Lens	focus, zoom, P-Iris, Auto-Iris, F1.3	
	Focal Length	2.7-12mm	Focal Length	3-9mm	
	Horizontal FOV	99° (wide),31° (tele)	Horizontal FOV	111° (wide),35° (tele)	
	Vertical FOV	53° (wide),18° (tele)	Vertical FOV	60° (wide),20° (tele)	

Sony 3M , Lens Type 1			Sony 3M , Lens Type 2			Sony 3M , Lens Type 3			
Image Sensor	Sony 3M 1/2.8" Progressive CMOS								
Effective Pixels	HxV = 2065x1553(3M)								
Pixel Size	2.5 μm								
Frame Rate (Maximum)	H.265 HDR 3M @30fps + 720p @30fps H.264 HDR 3M @30fps + 720p @30fps MJPEG 1080p @30fps								
Lens	Type 1 (Motorized Lens)			Type 2 (Zoom Lens)			Type 3 (Vari-Focal Lens)		
Minimum Illumination	Color B/W	0.04 lux 0.002 lux		Color B/W	0.04 lux 0.002 lux		Color B/W	0.04 lux 0.002 lux	
Lens	Motorized Lens	focus, zoom, P-Iris, F1.6		Zoom Lens	focus, zoom, P-Iris, Auto-Iris, F1.3		Vari-Focal Lens	F1.4	
	Focal Length	2.7-12mm		Focal Length	3-9mm		Focal Length	2.8-12mm	
	Horizontal FOV	100° (wide),31° (tele)		Horizontal FOV	102° (wide),31° (tele)		Horizontal FOV	92° (wide),31° (tele)	
	Vertical FOV	74° (wide),22° (tele)		Vertical FOV	76° (wide),25° (tele)		Vertical FOV	70° (wide),25° (tele)	

Sony 2M, Lens Type 1			Sony 2M, Lens Type 2		
Image Sensor	Sony 2M 1/2.8" Progressive CMOS				
Effective Pixels	HxV= 1945x1097(2M)				
Pixel Size	2.9 μm				
Frame Rate (Maximum)	H.265 HDR 1080p @30fps + 1080p @30fps H.264 HDR 1080p @30fps + 1080p @30fps MJPEG 1080p @30fps				
Lens	Type 1 (Motorized Lens)		Type 2 (Zoom Lens)		
Minimum Illumination	Color B/W	0.02 lux 0.001 lux	Color B/W	0.02 lux 0.001 lux	
Lens	Motorized Lens	focus, zoom, P-Iris, F1.6	Zoom Lens	focus, zoom, P-Iris, Auto-Iris, F1.3	
	Focal Length	2.7-12mm	Focal Length	3-9mm	
	Horizontal FOV	106° (wide),33° (tele)	Horizontal FOV	110° (wide),36° (tele)	
	Vertical FOV	58° (wide),19° (tele)	Vertical FOV	61° (wide),21° (tele)	