

# network DynaHawk™ 720/820Z-N Series

3M Real-time Speed Dome IP Camera



720/820Z N series Speed Dome IP Camera, with latest encoding technology, is the very first 3M (2048x1536) @ 30fps real-time speed dome product in the surveillance market. It is also able to deliver crystal clear image with high quality 30x optical zoom lens in very long distance.

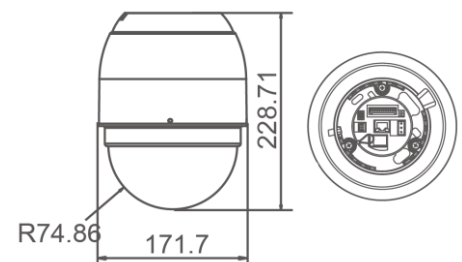
This model can offer simultaneous Quad Streams and Qual Codec, H.264 Baseline / Main / High Profile, MJPEG for various network applications via speeding or limited bandwidth. With software defog algorithm, image can still keep clear in foggy weather. Compliance with ONVIF Test tool 14.06 and Profile S, this model is able provide fully compatibiloity to any VMS around the world. It can seamlessly connect to the backend system with universal ONVIF protocol.

With built-in heater and 60W PoE power source support, this model is able to operate in extreme weather condition from -40°C to 50°C . IP66 International standard is also gurantee in this model for outdoor

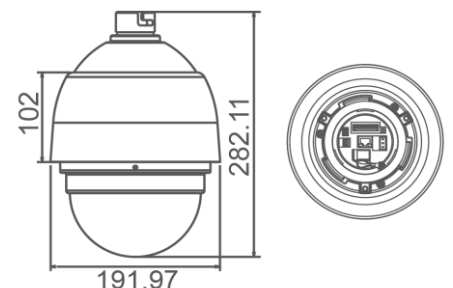
## ■ Key Features

- Sony Progressive Scan CMOS Sensor
- Up to 30x Optical Zoom
- 10x Digital Zoom
- Wide Dynamic Range
- 3M @ 30fps + 1080P @ 30fps
- Supreme Frame Rate Support: 1080P @ 60fps + SXGA @ 60fps
- Quad Streams Support
- Quad Codec: H.264 Baseline / Main / Hight Profile +
- 2D Noise Reduction
- Defog function
- 802.3at 60W PoE+ Support for Heater Activation
- Weatherproof (IP66 International)\*

### 720 (Indoor Model)



### 820 (Outdoor Model)



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Camera	N4 (18x)	N5 (20x)	N6 (30x)
Image Sensor		1/2.8" Sony Progressive CMOS	
Optical Zoom	18x	20x	30x
Digital Zoom		10x	
Minimum Illumination		0.05 lux (Color), 0.01 lux (B/W) @ F1.6	
Wide Dynamic Range		Digital WDR	
Focus Mode		Auto / Manual	
White Balance		Auto / Indoor / Outdoor / ATW / Manual	
Iris Control		Auto / Manual	
Electronic Shutter		1/1 - 1/10000 sec.	
AGC Control		Auto / Manual	
Backlight Compensation		On / Off	
<b>Lens</b>			
Focal Length	4.7 - 84.6 mm	4.7 - 94 mm	4.3 - 129 mm
Min. Focus Length	1 m (Wide); 1 m (Tele)	1 m (Wide); 1 m (Tele)	1 m (Wide); 1.2 m (Tele)
F Number	F 1.6 (Wide); F 2.8 (Tele)	F 1.6 (Wide); F 3.5 (Tele)	F 1.6 (Wide); F 4.7 (Tele)
FOV	55.2° (Wide); 3.2° (Tele)	55.8° (Wide); 4° (Tele)	66.5° (Wide); 3.25° (Tele)
<b>Operation</b>			
Pan Travel		360° endless	
Tilt Travel		-10° - 190°	
Manual Speed		0.5° - 90° / s	
Presets		256	
Preset Accuracy		0.225°	
Preset Speed		5° - 400° / s	
Sequence		8	
Auto Pan		4	
Cruise		8	
Privacy Mask		16	
Proportional Pan & Tilt		On / Off (Pan and tilt speed proportional to zoom ratio)	
Resume after Power loss		Support	
Home Function		Preset / Sequence / Auto pan / Cruise	
Auto Flip		Image / Mechanical / Off	
Motion Detection		Motion Detection Window x 4 sets	
Day / Night: IR Cut Filter		On / Off	
Image Rotation		Flip / Mirror / Inverse	
Defog		On / Off	
Noise Reduction	2D	On / Off	
<b>Network</b>			
Networking		RJ-45, 1Gbps Ethernet	
Video Compression		MJPEG / H.264 (MPEG-4 Part 10/AVC) Baseline / Main Profile / High Profile	
	Single	H.264 3M (2048x1536) @ 30fps H.264/MJPEG 1080P @ 60fps	
	Dual	H.264 3M (2048x1536) @ 30fps + H.264 SXGA @ 30fps H.264 1080P @ 60fps + H.264 D1 @ 30fps Note: One if the stream below 1080P can be MJPEG	
Video Stream	Multiple	H.264 3M (2048x1536) @ 30fps + H.264 720P @ 30fps + H.264 D1 @ 30fps + H.264 CIF @ 30fps H.264 1080P @ 60fps + H.264 CIF @ 60fps + H.264 CIF @ 30fps + H.264 CIF @ 30fps Note: One if the stream below 1080P can be MJPEG	
Video Resolution		H.264 - 3M / Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D1 / VGA / CIF MJPEG - Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D1 / VGA / CIF	
Audio Compression		G.711 / G.726	
Audio Stream		Two-way Audio	
Protocols		IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE, UPnP, IGMP, SNMP, QoS, ONVIF, ARP	
Security		HTTPS / IP Filter / IEEE 802.1x	
Alarm	Input	4 Sets / 5V 10kΩ pull up	
	Output	2 Set / Relay output, max. 2A DC 30V / 0.5A AC 125V	
Alarm Reaction		Preset / Sequence / Auto Pan / Cruise	
Micro SD		microSDXC 64GB Support	
Supported Web Browser		Internet Explore (6.0+) / Chrome / Firefox / Safari	
Password Levels		User and Administrator	
<b>General</b>			
Environment		Indoor / Outdoor	
Operating Temperature	Indoor	0°C - 40°C (32°F - 104°F)	
	Outdoor	-40°C - 50°C (-40°F - 122°F)	
Dimension	Indoor	Ø 171.7 x 228.7 mm (Ø 6.7 x 9 in.)	
	Outdoor	Ø 191.9 x 282.1 mm (Ø 7.5 x 11.1 in.) w/ Sunshield	
Weight	Indoor	1.6 kg (3.57 lb)	
	Outdoor	2.3 kg (5.11 lb) w/ Sunshield	
Power Source	Indoor	802.3at PoE+ (30W) / AC 24V ± 10%	
	Outdoor	802.3at PoE+ (60W) / AC 24V ± 10%	
Power Consumption	Indoor	24 W	
	Outdoor	59.5 W (w/ Heater)	
Regulatory		CE / FCC / RoHS / IP66 (Outdoor)	

\* mark for optional items

Product specification and availability are subject to change without notice.



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