

## 2MP/5MP/8MP AI Varifocal IP Camera

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Model name	RS-CH281M8ND-DF-WA2812PW	RS-CH252M6ND-DF-WA2812PW	RS-CH240M4ND-DF-WA2812PW	RS-CH248N3ND-DF-A2812PW
<b>Video</b>				
Imaging Device	1/2.8"	1/2.7"	1/2.8"	1/2.7"
Effective Pixels	2MP 1920(H)×1080(V)	5MP 2592(H)×1944(V)	8MP 3840(H)×2160(V)	8MP 3840(H)×2160(V)
Scanning System	Progressive CMOS	Progressive CMOS	Progressive CMOS	Progressive CMOS
Min. Illumination	Color 0.002lux @ F1.6(AGC ON) ; B/W 0 lux @ IR ON	Color 0.003lux @ F1.6(AGC ON) ; B/W 0 lux @ IR ON	Color 0.009lux @ F1.6(AGC ON) ; B/W 0 lux @ IR ON	
<b>Lens Type</b>				
Focal Length (Zoom Ratio)	2.8-12 mm	2.7-13.5mm	2.7-13.5mm	
Max. Aperture Ratio	F No. 1.8 (W) ~ 3.3(T)			
Angular Field of View	Horizontal: 101 ~ 33°, Vertical: 52 ~ 18°, Diagonal: 124 ~ 37°	Horizontal: 31 ~ 102°, Vertical: 23 ~ 73°, Diagonal: 38 ~ 138°	Horizontal: 33 ~ 111°, Vertical: 18 ~ 57°, Diagonal: 37 ~ 134°	Horizontal: 116(W)-34(T)° ; Vertical: 59(W)-19(T)°, Diagonal: 142(W)-39(T)°
Min. Object Distance	1.2m (W/T)	0.3m~INF	0.8m~INF(W), 1m~INF(T)	0.8m(W) ~ 1m(T)
Lens Type	Motorized(Ø14)			
<b>Operational</b>				
IR Viewable Length	Up to 45m			
Camera Title	On/Off			

Day & Night	IR cut filter with auto switch (Day/Night/Auto/Image/Schedule)		
Backlight Compensation	Off/On (5 Zone)		
Wide Dynamic Range	WDR		DWDR
Digital Noise Reduction	3D DNR		
Motion Detection	Off/On (8 Level)		
Privacy Masking	Off/On (4 Zone, Rectangle)		
Gain Control	Auto		
White Balance	Auto/Manual		
Electronic Shutter Speed	1/5 ~ 1/20000s		
On-Board Storage	Micro SD slot, up to 256GB		
Alarm	1 input, 1 output		
Audio	1 input (RCA), 1 output (RCA)		
Hardware Reset	Yes		
Smart Feature	PID,LCD,PD/VD, FD,SOD,CC,HM,CD , QD,RSD ,LPD	PID,LCD,PD/VD,SOD,CC ,CD,QD,HeatMAP, RSD,LPD,FD	PID,LCD,PD/VD, FD, SOD,CC,HM,CD , QD,RSD ,LPD
<b>Network</b>			
Ethernet	RJ45(10/100BASE-T)		
Video Compression Format	H.265/H.264		
Resolution	Mainstream @30fps 1080P(1920x1080), 960P(1280x960), 720P(1280x720) Substeam @30fps 720P(1280x720), VGA(640x480), QVGA(320x240) Mobilestream @30fps VGA(640x480), QVGA (320x242)	Main Stream @30fps 5MP(2592x1944), 4MP(2592x1520), 3MP(2304x1296), 1080P(1920x1080), 960P(1280*960) Sub Steam @30fps 1080P(1920x1080) , 720P(1280x720), VGA(640x480) Mobile Stream @30fps VGA(640x480), QVGA (320x240)	Main Stream 30fps 8MP(3840x2160), 5MP(2592x1944,3072x1728), 4MP(2592x1520), 3MP(2304x1296), 1080P(1920x1080), 960P(1280*960),7 20P(1280x720), Sub Steam 30fps 1080P(1920x1080) , 720P(1280x720), VGA(640x480) Mobile Stream 30fps VGA(640x480), QVGA (320x240)
Video Quality Ajustment	256Kbps ~ 8Mbps		256Kbps ~ 16Mbps
Bitrate control method	CBR/VBR		
IP	IPv6		

Streaming Capability	Triple-Stream(Main/Sub/Moile)		
Protocol	TCP/IP,HTTP,DHCP,DNS,DDNS,RTP/RTSP,SMTP,NTP,UPnP,SNMP,HTTPS,FTP		
Web browser	IE10/11 Safari V12.1 above Firefox V.52 above Google chrome V.57 above Edge V.79 above		
Security	IP address filter;complicated password;Authenticated username and password		
Streaming Method			
Application Programming Interface	ONVIF( Profile S/G/T)		
<b>Environmental</b>			
Operating Conditions	-35 ~ +60°C/less than ≤ 95% RH		
Ingress Protection	IP67		IP66
<b>Electrical</b>			
Input Voltage / Current	D12V/POE(IEEE802.3af)		
Power Consumption (IR OFF)	2W-3W	2.5W-3.5W	3W-4W
Power Consumption (IR ON)	6W-8W	6.5W-8.5W	7W-9W
<b>Mechanical</b>			
Material	Metal		
Dimensions (HxWxD)	242*87.4*83.88mm		
Weight	811g		