



**Product Data Sheet**  
**Model : OPT-RY-8MB-MCS-281220F**

**Video**

Imaging Device	1/2.7"
Effective Pixels	8MP 3840(H)×2160(V)
Scanning System	Progressive CMOS
Min. Illumination	Color 0.007lux @ F1.0(AGC ON) ; B/W 0 lux @ IR ON

**Lens Type**

Focal Length (Zoom Ratio)	2.8-12mm
Max. Aperture Ratio	F No. 1.2
Angular Field of View	Horizontal:113(W)-36(T)°, Vertical:59(W)-20(T)°, Diagonal:139(W)-41(T)°
Min. Object Distance	1.5m
Lens Type	Ø16.7

## Operational

IR LED	4
WarmLight	4
Red Blue Light	2 (1 Red&1 Blue)
IR Viewable Length	Up to 35m
WarmLight Viewable Length	Up to 30m
Type of complementary light	Default warm light, switchable infrared light
Motion Detection	Off/On (8 Level)
Wide Dynamic Range	DWDR
Digital Noise Reduction	3D DNR
Image Setting	Full Color Mode/Day&Night Mode/Smart Illumination
White Balance	Auto/Manual
Electronic Shutter Speed	1/5 ~ 1/20000s
On-Board Storage	Micro SD slot, up to 256GB
Alarm	NA
Audio	Built-in microphone&Speaker
Custom Voice	Yes
Hardware Reset	Yes
Smart Feature	Face Detection, Pedestrian & Vehicle , Perimeter Intrusion , Line Crossing , Object Detection, Crossing Counting, Heat Map, Crowd Density , Queue Length , Rare Sound, Intrusion Region Entrance, Region Exiting



## Network

Ethernet	RJ45(10/100BASE-T)
Video Compression Format	H.265/H.264
Resolution	"Main Stream@20fps 8MP(3840x2160),5MP(2592x1944,3072x1728), 4MP(2592x1520),3MP(2304x1296),1080P(1920x1080), 960P(1280*960),720P(1280x720) Sub Stream@20fps 720P(1280x720),VGA(640x480),QVGA(320x240) Mobile Stream@20fps VGA(640x480), QVGA (320x240)
Video Quality Adjustment	256Kbps ~ 16Mbps
Bitrate control method	CBR/VBR
IP	IPv6
Protocol	"TCP/IP,HTTP,DHCP,DNS,DDNS,RTP/RTSP, SMTP,NTP,UPnP,SNMP,HTTPS,FTP"
Security	IP address filter;complicated password;Authenticated username and password
Application Programming	ONVIF( Profile S/G/T/M)
Web Viewer	"IE10/11 Safari V12.1 above Firefox V.52 above Google chrome V.57 above Edge V.79 above

## Environmental

Operating Conditions	-35~+60°C/less than ≤ 90% RH
Ingress Protection	IP66

## Electrical

Input Voltage / Current	D12V/POE(IEEE802.3af)
Power Consumption	DC12V :max 11W; POE (48V): max 12.9W

## Mechanical

Material	Metal
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