



Rhodium
Professional Video Solution

Diamond Series

NDA

2MP/5MP/4K AI Fix Lens Vandal-proof Mini Dome Mobile Train Series – IR 30M

Features:

- ▶ 1/2.8" 2 MP ~ 4K progressive scan Sony STARVIS CMOS
- ▶ Lens: 2.8mm/4mm/6mm@F1.6- M12
- ▶ Primary Stream: 60fps@1080P / 30fps@4K
- ▶ Min. Illumination, Color: 0.005Lux@F1.2 B/W: 0Lux with IR on
- ▶ **AI Video Intelligent Analytics**
- ▶ SIP/Protocol: Voice & Video-over-IP
- ▶ Starlight Technology
- ▶ Triple-stream Encoding
- ▶ Super WDR 120dB
- ▶ IR Distance: 30M
- ▶ Audio I/O 1/1, Alarm I/O 1/1 (Multi- Interface Version)
- ▶ Built-in Microphone, 3AXIS
- ▶ ONVIF Profile G & Q & S & T, API
- ▶ Support micro SD up to 256GB
- ▶ POE\ 12VDC, IP67, IK10, -40°C ~ + 60°C



AI Video Analytics

- 8 intelligent VCA modes powered by AI engine, which can intelligently filter objects to focus on human and vehicle detection.
- People Counting technology provides high accuracy and real-time data based on AI algorithm with statistic reports.
- Face Detection function detects human faces in the monitoring scene and captures the snapshots, which greatly enhances the monitoring efficiency.



120dB Super WDR

Rhodium's sensor-based WDR technology allows the camera to record greater scene details with true color reproduction even under the extreme back light and high contrast conditions. The ratio that the brightest light signal values divided by the darkest light signal values is up to 140dB.



30fps@4K

Providing 4K HD resolution with frame rate of 30fps, the camera performs well in catching detailed image regardless of the moving speed.



Reliable Anti-vibration Performance

Complying with the transportation-industry regulations of EN50155 standard, Rhodium Vandal-proof Mini Dome Network Camera is able to offer train specific rugged features to protect the system against environmental factors.



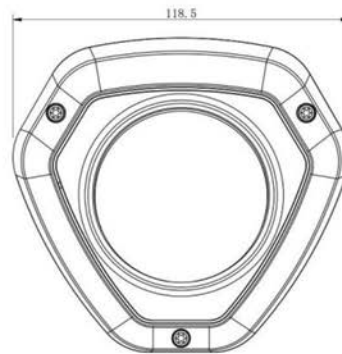
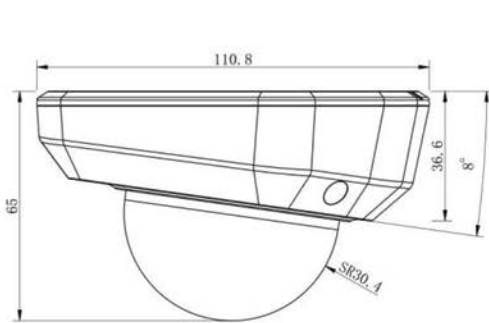
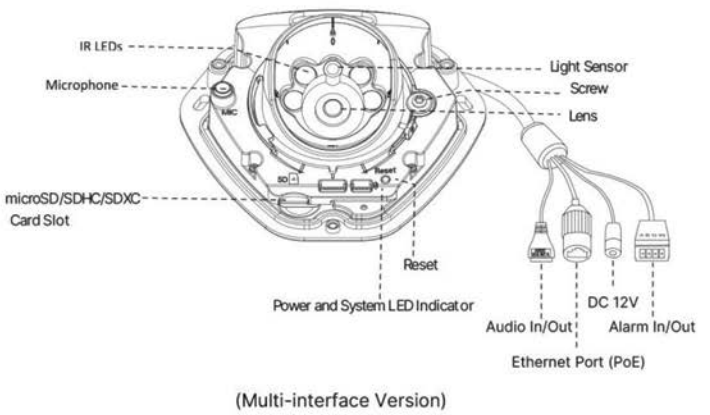
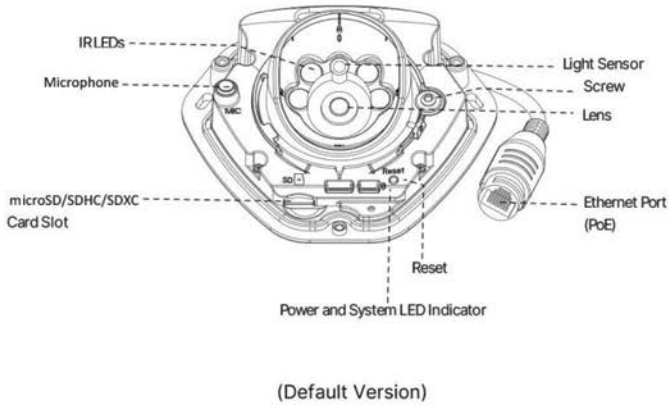
2MP/5MP/4K AI Fix Lens Vandal-proof Mini Dome Mobile Train Series – IR 30M

Camera	Model	RDO2973-(R)PD-TM (2MP)	RDO5373-PD-TM (5MP)	RDO8173-SPD-TM (4K)
	Image Sensor	1/2.8" Progressive Scan CMOS		
	Min. Illumination	Color: 0.005Lux@F1.6 B/W: 0Lux with IR on	Color: 0.008Lux@F1.6 B/W: 0Lux with IR on	Color: 0.012Lux@F1.6 B/W: 0Lux with IR on
	WDR	120dB Super WDR	120dB Super WDR	
	Lens	2.8mm/4mm/6mm@F1.6		
	Mount	M12		
	Field of View	H111°/D128°/V61°(2.8mm) H91°/D106°/V50°(4mm) H55°/D63°/V32°(6mm)	H105°/D131°/V78°(2.8mm) H86°/D108°/V63°(4mm) H52°/D63°/V40°(6mm)	H110°/D126°/V60°(2.8mm) H91°/D106°/V50°(4mm) H55°/D63°/V32°(6mm)
	Shutter Time	1/100000s~1s		
	IR Distance	Up to 30m		
	Day/Night Mode	Day/Night/Auto/Customize/Schedule		
	S/N	>55dB		
	Video	Max. Image Resolution	1920x1080	2592x1944
Primary Stream		60fps@(1920x1080, 1280x960, 1280x720, 704x576)	30fps@(2592x1944), 45fps@(2048x1536), 60fps@(1920x1080, 1280x960, 1280x720, 704x576)	30fps@(3840x2160, 3072x2048, 2592x1944, 2592x1520, 2048x1536, 1920x1080, 1280x960, 1280x720, 704x576)
Secondary Stream		30fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180)	20fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180)	
Tertiary Stream		30fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240, 320x192, 320x180)		
Video Compression		H.265+/H.265(HEVC)/H.264+/H.264/MJPEG		
Video Bit Rate		16Kbps~16Mbps(CBR/VBR Adjustable)		
Privacy Masking		Up to 8 areas		
ROI		Up to 8 areas		
Image Setting		Brightness/Contrast/Saturation/Sharpness		
Interface	Ethernet	1*RJ45 10M/100M Ethernet Port		
	Audio I/O	Built-in Microphone; 1/1 (Multi-interface Version)		
	Alarm I/O	1/1 (Multi-interface Version)		
Network	Network Storage	NAS(Support NFS, SMB/CIFS), ANR		
	Protocol	IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL		
Audio	Audio Compression	G.711/AAC/G.722/G.726		
	Audio Sampling Rate	8/16/32/44.1/48KHz		
	Audio Bit Rate	16~256kbps		
	Two-way Audio	Support		

2MP/5MP/4K AI Fix Lens Vandal-proof Mini Dome Mobile Train Series – IR 30M

Intelligent Analytics	Video Analysis	Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed		
	Face Detection	Detect and capture faces, get real-time snapshots		
	People Counting& Report	Count the number of people entering or exiting, Up to 4 detection areas for regional people counting		
System	Storage	Support microSD/SDHC/SDXC Card Local Storage, up to 256G		
	Advanced Function	BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, EIS, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark, MultiCast, UniCast		
	SIP/VoIP Support	Yes, Voice & Video-over-IP		
	Event Trigger	Motion Detection, Network Disconnection, Audio Alarm, etc.;		
	Event Action	Motion Detection, Network Disconnection, External Input, Audio Alarm, etc. (Multi-interface Version)		
		FTP Upload, SMTP Upload, SD Card Record, SIP Phone, HTTP Notification, etc.;		
General	System Compatibility	FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, HTTP Notification, etc. (Multi-interface Version)		
	Working Temperature	ONVIF Profile G & Q & S & T, API		
	Working Humidity	-40℃~60℃		
	Power Supply	0~90%(Non-condensing)		
	Power Consumption	PoE (802.3af); PoE (802.3af) / DC 12V ± 10% (Multi-interface Version)		
		3W MAX 4.7W MAX (With IR on)	4W MAX 6W MAX (With IR on)	4.4 W MAX 6.1W MAX (With IR on)
	Housing	Up to IP67-rated for Weather-resistant Performance; Vandal-proof IK10-rated Metal Housing		
	EN50155	Support		
	Weight	500g		
	Dimensions	118.5mmX110.8mmX65mm		
	Warranty	3/5 Years		
Certifications:		CE, FCC, LVD, ISO9001, ISO14001 EN50155, EN55032:2015, EN55035:2017, EN61000-3-2:2014, EN61000-3-3:2013, EN62368-1:2014+A11:2017		
Train Certifications:		Weather rating IP66 (IEC60529), EN 50121-4, Lightning certification EN62305, Vibration - ENV EN60068, Safety: EN12675, LVD: 2014/35 / EU, EMC: 2014/30/EU (IEC61000 is included in EMC:2014/30/EU), Vandal resistant IK10 (IEC-62262)		

Structure Diagrams



Units: mm

Accessories Support

RA01 Pole Mount

Weight: 720g
Dimensions: 170*51.5*152.6mm



RA03 External Corner Bracket

Weight: 900g
Dimensions: 170*152.5*76.3mm



RA71 Wall Mount

Weight: 530g
Dimensions: 162*124*78 mm



RA73 Adapter Plate

Weight: 28g
Dimension: 115*122.5*10mm



RA74 Junction Box

Weight: 60g
Dimensions: 121.5*116.5*37.2

