

SATATYA RIDR20FL28CWP P2

2MP IR Ruggedized Camera with 2.8mm Lens



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Matrix Ruggedized Series IP Cameras are specifically designed for the demanding Transportation industry ie Railways and Roadways. Powered by Low light Sensitivity and High quantum efficiency Sensor it offers superior Video Quality and performance necessary to capture the events happening at a zap speed in/from a moving vehicle.

Ruggedized IP Cameras are best suited for mobile applications. Loaded with versatile functions and a range of features, Matrix Ruggedized IP Cameras are an ideal Solution for Railways and Roadways to monitor the assets and provide superior customer service.

USP



SONY STARVIS
SENSOR



H.265
COMPRESSION



IVA



HIGHER FIELD
OF VIEW



SMART
STREAMING



ADAPTIVE
STREAMING

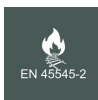


TRUE WDR



NAS

CERTIFICATION



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TECHNICAL SPECIFICATIONS

IMAGE SENSOR

Resolution	2 MP (1920 x 1080)
Sensor Type and Size	1/2.8" SONY - CMOS 2MP Active Pixel Progressive Scan, Back Illuminated Image sensor (STARVIS Series)

LENS

Minimum Illumination	Color - 0.01 Lux @ F1.2 (AGC ON) Monochrome - 0 Lux
Focal Length	2.8mm
Focus Range	0.5m to infinity
Field of View (FOV)	HFOV - 107.6° VFOV- 57° DFOV - 127.62°
Lens Mount	M12
Focus	Fixed focus
Aperture (F#)	F 1.6
Iris Type	Fixed
IR Range	Up to 30m
IR Led Wavelength	850nm
IR Switching	Auto/ Manual
DORI AS PER IEC 62676 - IV	D: 38 m, O: 16 m, R: 8m, l: 4 m

AUDIO INTERFACE

Built-in Microphone	Yes
Audio IN	1
Audio OUT	1x(3.5mm stereo female audio jack)
Two-way Audio	Supported
Audio Compression	G.726 and G.711μ
Alarm In	1
Alarm Out	1

HARDWARE SPECIFICATIONS

SD Card	Up to 512GB
Camera Adjustment Angle	Pan: -30° to 30° Tilt: 10° to 90° Rotate: -175° to 175°

IMAGE AND VIDEO

No. of Stream Profiles	4
Stream Profiles	Profile 1:- 1080p(2MP)/720p/D1/VGA/2CIF/CIF/QCIF upto @60 fps(H.265/H.264) Profile 2:- D1/VGA upto @30fps(H.265/H.264) Profile 3: 1080p(2MP)/720p/D1/VGA @8fps (MJPEG) or D1/VGA@15fps(H.264/H.265) Profile 4:1080p(2MP)/720p/D1/VGA @ 30 fps (H.265/H.264/MJPEG)

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Available Resolutions	1920 x 1080, 720p,D1,2CIF,CIF,QCIF,VGA
Max Resolution	1920 x 1080
Bitrate	128kbps-16Mbps
Bitrate Type	CBR, VBR
Video Compression	H.265, H.264, MJPEG
Frame Rate	1-60fps
Shutter Speed	1/15s-1/100000s
Adaptive Streaming	Yes
ONVIF Profiles	S, G & T
Edge Recording	Yes
Alarm Recording	Pre and Post
Motion Recording	Yes
Video Parameters	Snapshot, Region of Interest (ROI), BLC,HLC, Day/Night Settings (Auto/Manual)
Privacy Masks	8
WDR	True WDR (120dB)
SNR	>70dB
Image Enhancement	Rotate mode/Saturation/Brightness/Contrast and Sharpness Adjustable by Client Software or Web browser
DNR	2D &3D
Digital Zoom	16x
Video Analytics	Motion/No Motion Detection, View Tamper Detection, Trip/No Trip Detection,Object Intrusion/Zone Intrusion, Audio Exception
ALERTS	
IP Conflict	Yes
Network Disconnect	Yes
Storage Full	Yes
Time Triggered	Yes
EVENTS AND ACTIONS	
Upload Image	SD, NAS, SFTP
Upload Clip	SD, NAS, SFTP,
Notifications	E-mail, SMS, TCP
PROTOCOLS SUPPORTED	
Supported protocols	TCP/IP, UDP, HTTP, HTTPS, DHCP, DNS, DynDNS, DDNS, RTP, RTCP, RTSP, PPPOE, SMTP, NTP, SNMP, FTP, TLS/SSL, SFTP, ICMP, IGMPv2 & v3, ARP, 802.1x, IPv4, IPv6, QoS Layer 3, DSCP, CIFS, SSH, UPnP, Bonjour
Web Viewer	Supported in IE 8.0-11.0, Firefox 15.0-47.0, Chrome 20.0-54.0, Safari, Edge
Browser	IE, Chrome, Mozilla, Edge, Safari

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CYBER SECURITY as per ISO/IEC 27402	
Secure boot	Yes
Signed firmware	Yes
Data Encryption	All data, including sensitive data, is encrypted with AES 256 and RSA 2048
IP Address Filtering	Yes
HTTPS Streaming	Yes, using TLS 1.2
Edge Data Encryption	Yes
Network Authentication	Yes, 802.1x Network authentication
Secure Firmware Upgrade	Yes
Anti-roll back firmware	Yes
Web login Password Protection	Yes
Unused Debug Interface Protection	Yes
OPERATING PARAMETERS	
Power Supply	12V (DC); 802.3af (PoE)
Power Consumption	5W
Operating Humidity	≤95% RH (non-condensing)
Operating Temperature	-30°C to 70°C
PHYSICAL PARAMETERS	
Communication Interface	10Base-T/100Base-TX Ethernet (M12, Female, 4-pin D-coded)
Weight	700g
Color	Infinity White
Storage	NAS, SD Card
Dimensions	120.5x118.6x63.3 mm (L*W*H)
Certifications	BIS, CE, FCC Part-15 Subpart – B, IK10, IP68, ONVIF S, G&T, NEMA 4X*, EN50155, EN45545-2(HL3/HL), Essential Requirement (ER) by STQC, NDAA Compliant

Specifications are subject to change without prior noticeMTO*

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ABOUT MATRIX

Established in 1991, Matrix is a leader in security and telecom solutions for modern businesses and enterprises. Matrix, an innovative, technology driven and customer focused organization, is committed to keep pace with the revolutions in security and telecom industries. With more than 40% of its human resources dedicated to the development of new products, Matrix has launched cutting-edge products such as Unified Communications, IP-PBX, Universal Gateways, Convergence, VOIP Gateways, GSM Gateways, IP Video Surveillance, Access Control and Time-Attendance. These solutions are feature-rich, reliable and conform to the international standards. Having global footprints in Europe, North America, South America, Africa and Asia through an extensive network of more than 1000 system integrators, Matrix ensures that the products serve the needs of its customers faster and longer. Matrix has gained trust and admiration of customers representing the entire spectrum of industries. Matrix has won many national and international awards for its innovative products.



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