

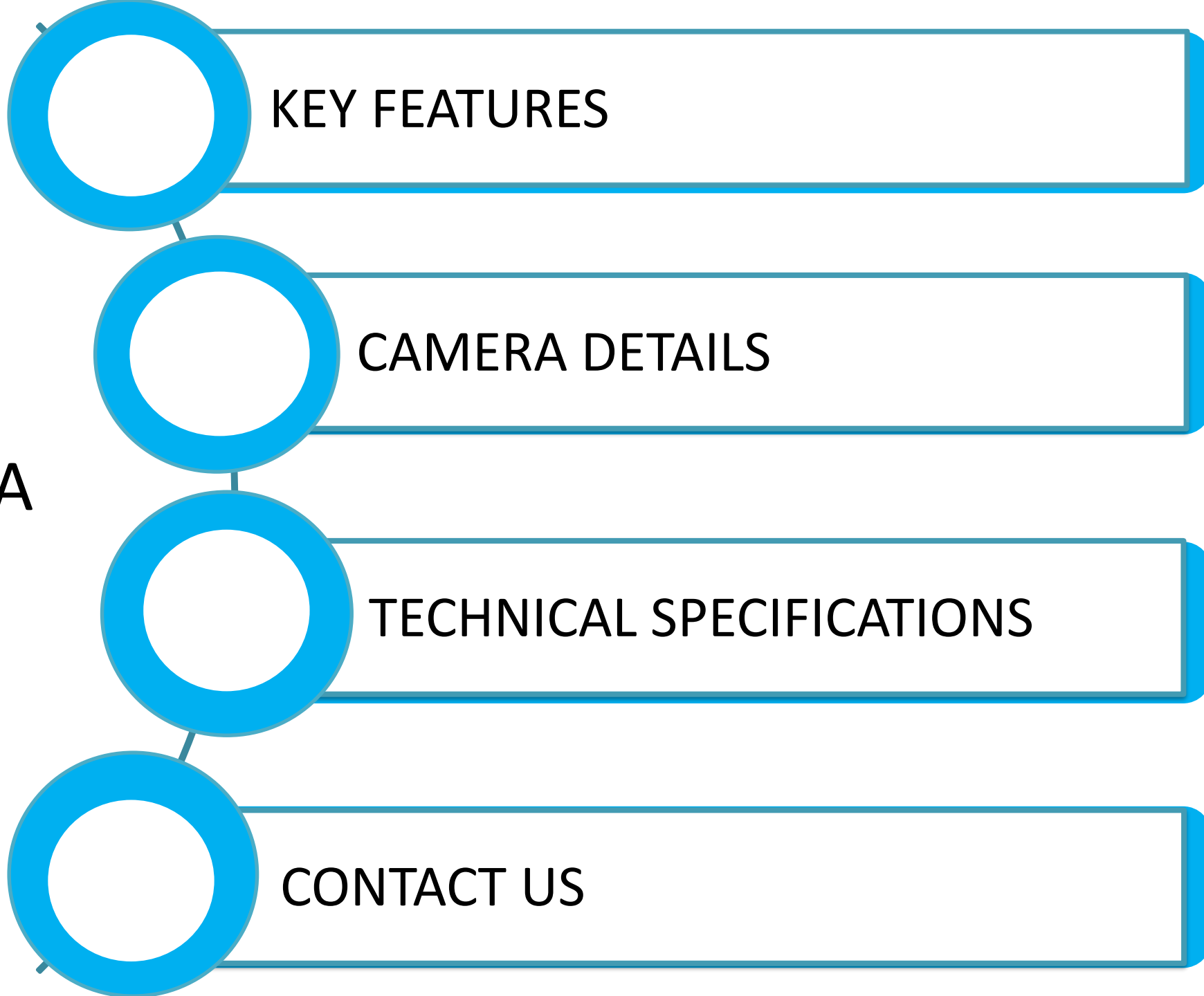


 **MATRIX**
SECURITY SOLUTIONS

MATRIX SATATYA IP CAMERAS

SECURITY

AGENDA





MATRIX SATATYA KEY FEATURES

SECURITY

BETTER IMAGE QUALITY

- Exceptional low light performance with color images at 0.08 lux

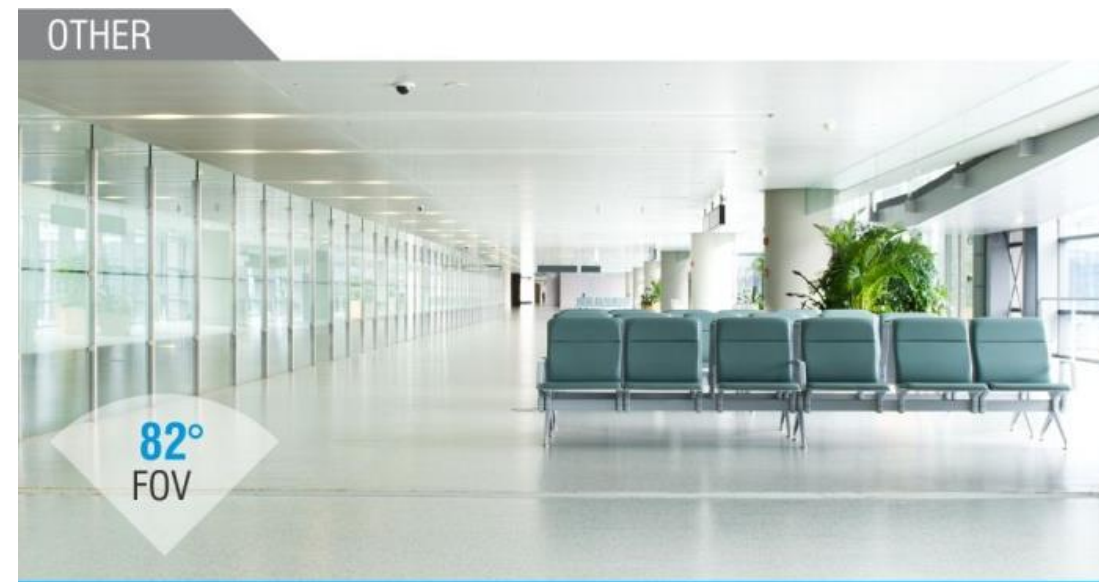
SONY STARVIS series sensors



GREATER COVERAGE

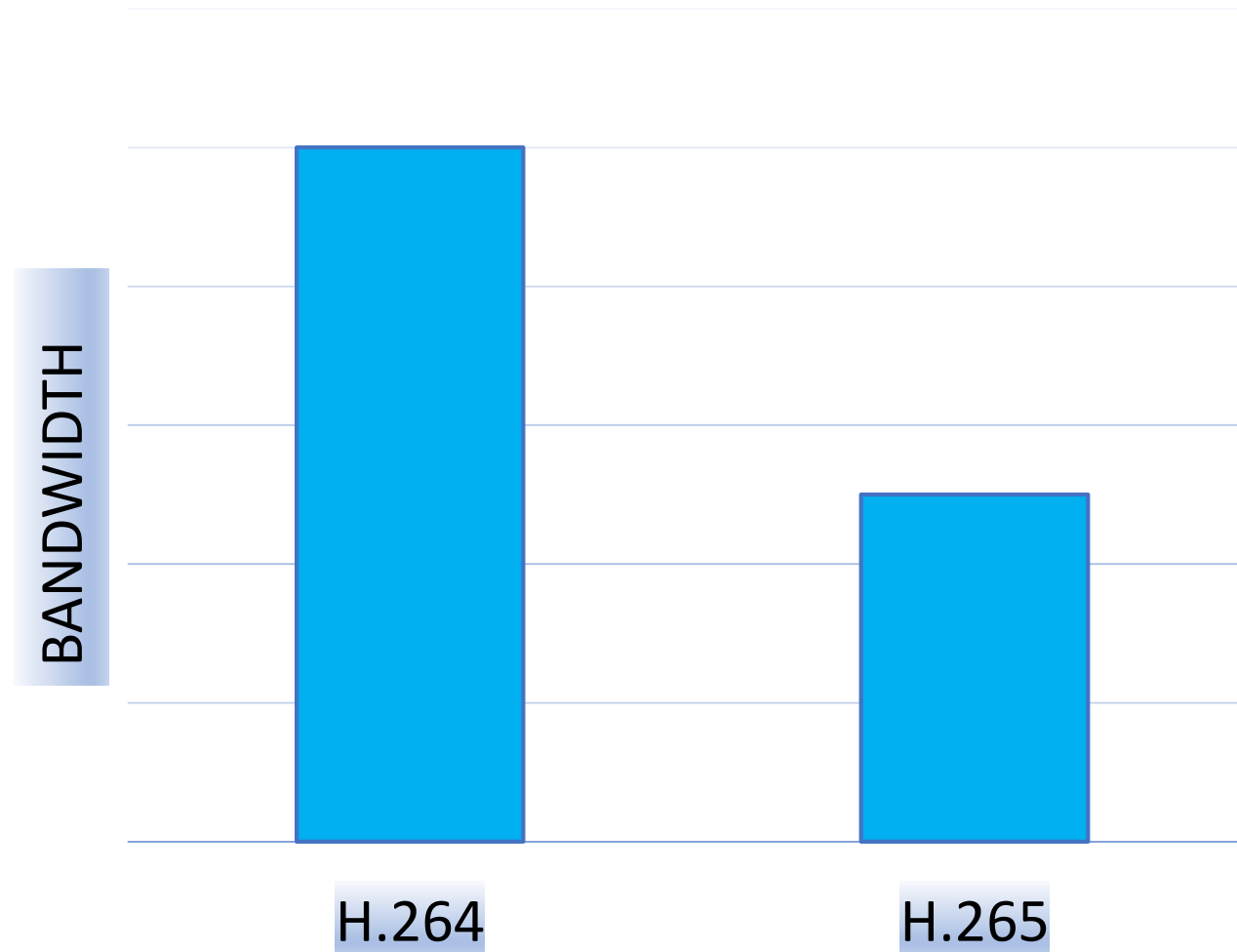
- Bullet camera 3.6mm Lens: FOV 90°
- Bullet camera 6mm Lens: FOV 56°

HIGHER FIELD OF VIEW



LATEST COMPRESSION TECHNIQUE

- Save 50% on bandwidth and storage



OPTIMIZED STORAGE

- Automatic frame rate reduction during no activity period

ADAPTIVE STREAMING



CONSISTENT PERFORMANCE

- The camera smartly varies its exposure time and rectifies the over-exposed and under-exposed areas in the scene thus giving more informative and clear image

TRUE WDR



WDR: ON

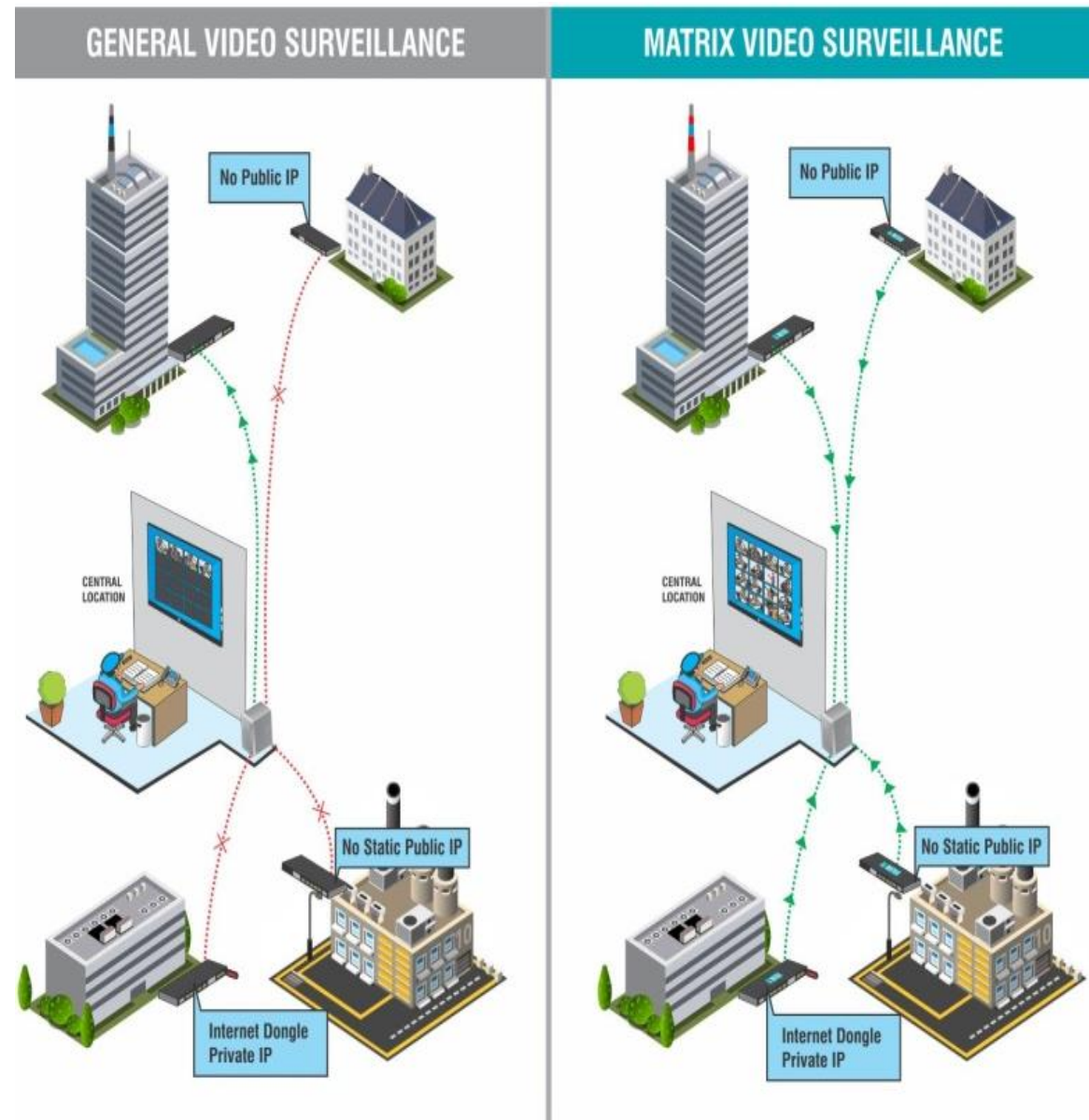


WDR: OFF

CONNECTIVITY

- Communication with the server is initiated from camera's end
- No Public IP required for centralized monitoring

PUSH TECHNOLOGY



RELIABILITY

- Bigger Metal Enclosure with Better Heat Dissipation and Sturdiness



RUGGED CONSTRUCTION





MATRIX SATATYA OTHER FEATURES

SECURITY

OPTAMIZED BANDWIDTH

- **SMART STREAMING:** Divides a single stream into multiple bitrates based on its importance
- **REGION OF INTEREST:** Allows streaming and recording of only critical areas from the entire image
- **FOUR STREAM SUPPORT:** Different streams for viewing storing and recording

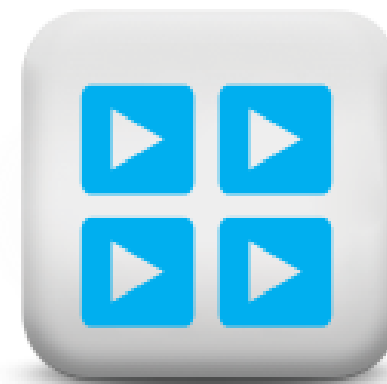
SMART STREAMING



REGION OF INTEREST



FOUR STREAM SUPPORT



ONBOARD STORAGE

- Edge recording support up to 128GB

SD CARD SUPPORT



MOTION DETECTION

- Helps you mark critical areas where motion should not occur. If motion occurs, it sends instant notifications.



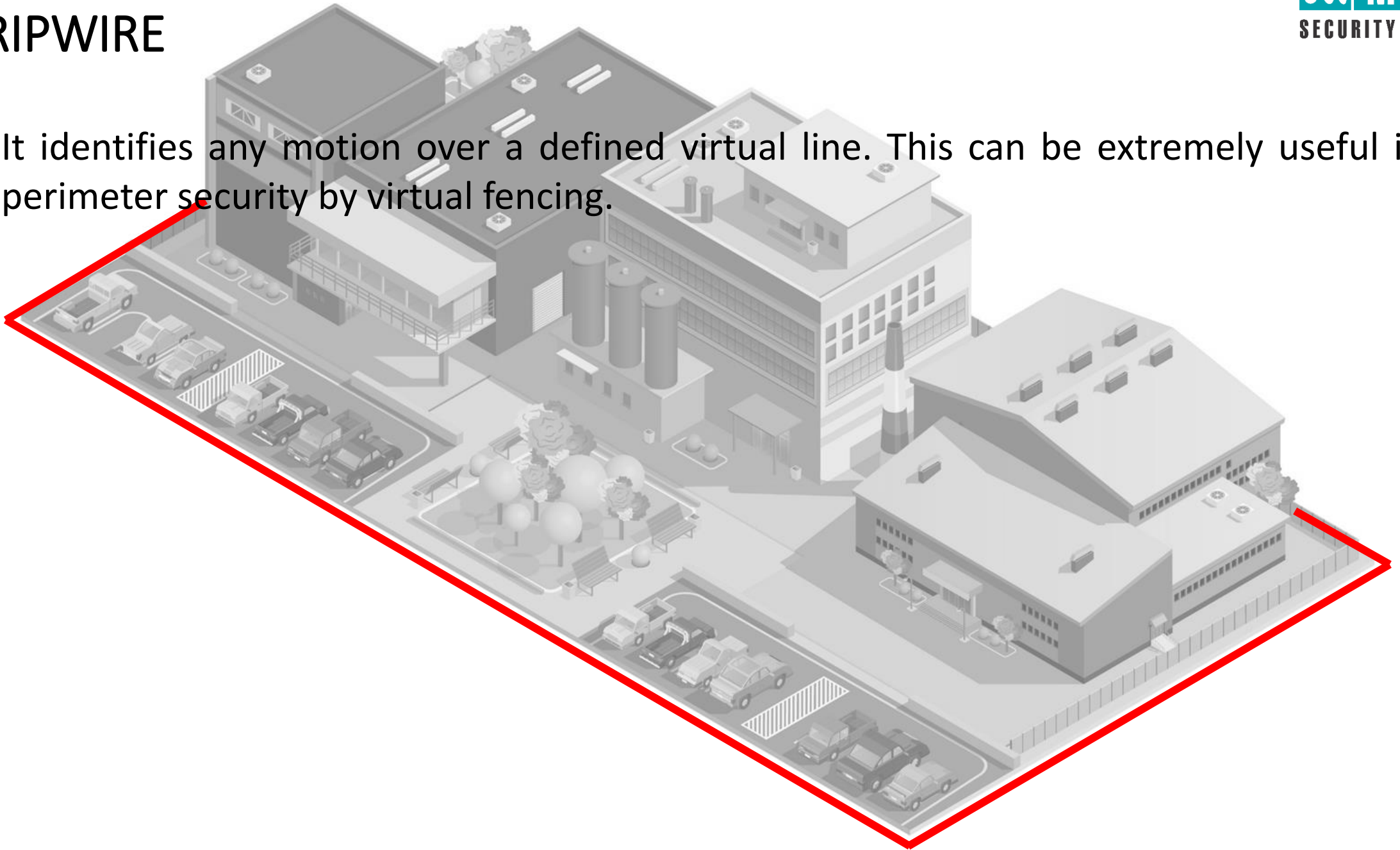
INTRUSION

- Provides notification on entry or exit from a high security or dangerous area.



TRIPWIRE

- It identifies any motion over a defined virtual line. This can be extremely useful in perimeter security by virtual fencing.



OTHER EVENTS

NETWORK DISCONNECT



IP CONFLICT



STORAGE ALERT



Other Solutions



Matrix Solutions



Real Time
Notification
Through
SMS and E-mail

ALERTS

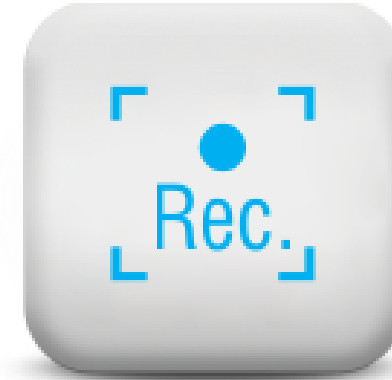
SNAPSHOT SCHEDULE



EMAIL WITH SNAPSHOT



PRE/POST ALARM RECORDING



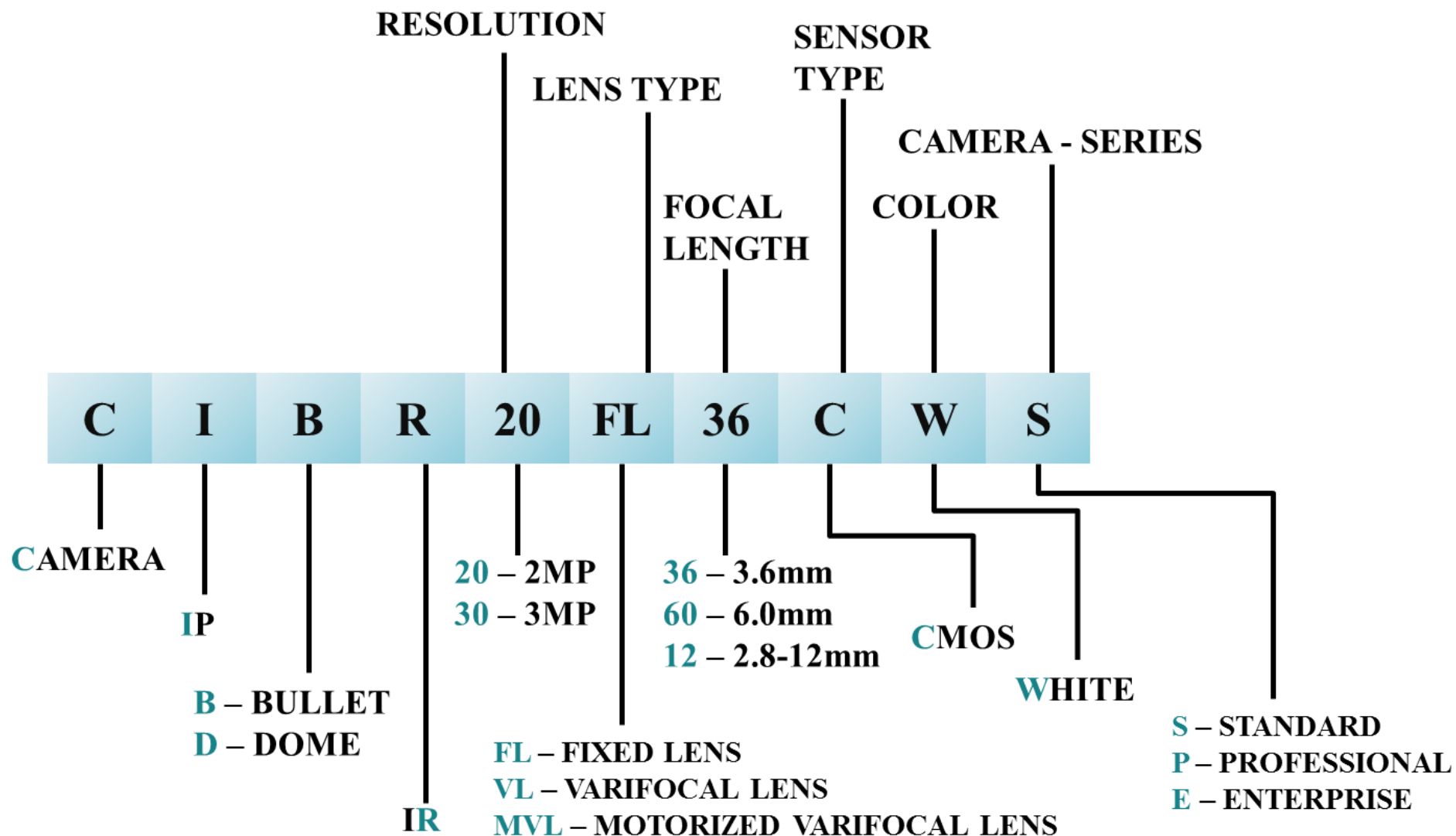
UPLOAD IMAGE/CLIP



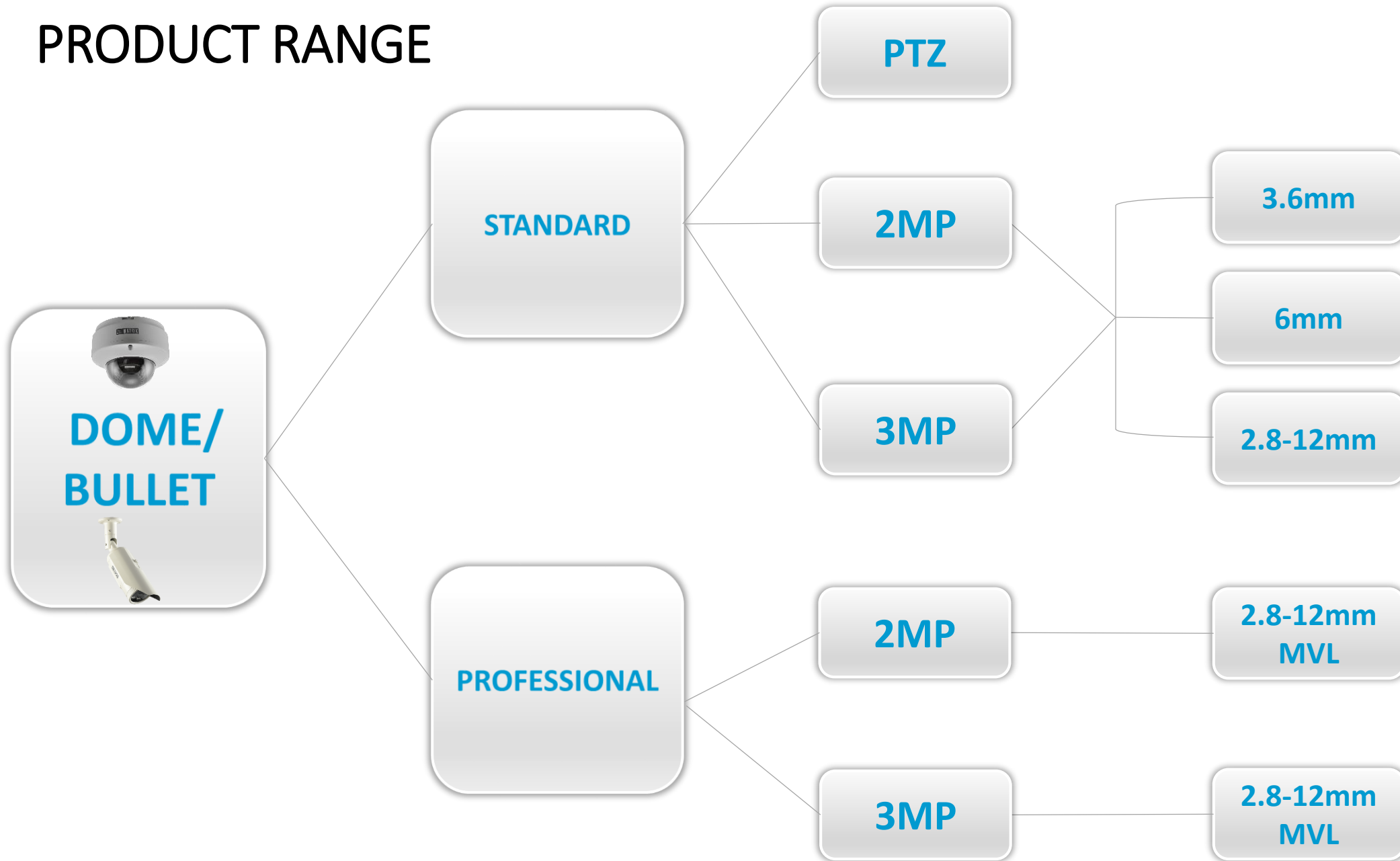
SMS



CAMERA NOMENCLATURE



PRODUCT RANGE





MATRIX SATATYA TECHNICAL SPECIFICATION

SECURITY

PTZ CAMERAS

- In built Analytics: Intrusion Detection and Tripwire
- 30x Optical Zoom, 4.3-129mm Varifocal lens
- 6 Pieces IR Array LEDs with IR Distance of 120m
- 1 Audio Input and 1 Audio Output
- 1 Alarm Input and 1 Alarm Output
- H.264/m-jpeg, Quad Stream
- 128GB SD Card
- IP66, TVS 4,000V Lightning Protection
- CE, RoHS and UL Certified.



2MP BULLET CAMERAS

MATRIX CAMERAS	SATATYA CIBR20FL36CWS Fixed lens	SATATYA CIBR20FL60CWS Fixed lens	SATATYA CIBR20VL12CWS Varifocal lens
Sensor type and size	SONY - CMOS 2MP Active Pixel Progressive Scan, Back Illuminated Image sensor(Exmor Technology - STARVIS Series) Size: 1/2.8"		
Spectral response	300nm - 1000nm		
Minimum illumination(b/w)	0 Lux with IR LED On		
Minimum object distance	0.3m		
IR led type	4 - Array LEDs		
IR range	20m		
Focal length	3.6mm	6mm	2.8-12mm
HFOV(degrees)	86°	52°	106° to 32°
Aperture	F 1.2	F 2.0	F 1.4
Iris control	No		Yes
Zoom	No		Yes(Manual)
Focus	No		Yes(Manual)

2MP BULLET CAMERAS

MATRIX CAMERAS	SATATYA CIBR20FL36CWS Fixed lens	SATATYA CIBR20FL60CWS Fixed lens	SATATYA CIBR20VL12CWS Varifocal lens
Maximum Resolution	1920*1080(2MP) @ 30fps		
Available Resolutions	1080p(2MP)/720p/D1/2CIF/CIF		
Stream Profiles	Four streams are supported Profile 1: 2MP up to 30fps (H.265/H.264) Profile 2: D1 up to 5fps (MJPEG) Profile 3: D1 up to 30fps (H.265/H.264) Profile 4: 720p up to 30fps (H.265/H.264/MJPEG)		
Max. Number of Simultaneous Streams	4		
Bitrate Type	CBR/VBR		
Bitrate	512Kbps - 4Mbps		
Video Compression	H.265/H.264/MJPEG		
Frame Rate	1 - 30fps		
GOP	1 - 100		
Shutter Speed	1/12500s to 1/25s		
Adaptive Stream	Yes		
Smart Stream	Yes (Max. 3 Windows)		
ONVIF Profile	S		

2MP BULLET CAMERAS

MATRIX CAMERAS	SATATYA CIBR20FL36CWS Fixed lens	SATATYA CIBR20FL60CWS Fixed lens	SATATYA CIBR20VL12CWS Varifocal lens
ROI	Yes		
BLC	Yes		
White Balance	Auto/Fluorescent/Incandescent/Sunny		
Digital Zoom	Yes		
E-PTZ	Yes		
Digital WDR	Yes		
True WDR	Yes		
Noise Filter(2DNR)	Yes (Auto/Manual)		
3DNR	Yes (Auto/Manual)		
Image Enhancement	Saturation/ Contrast/Brightness/Hue/Sharpness/Rotate		
Edge Recording	Yes		
Network Recording	Yes		
Image-Snapshots	Yes		
Standard POE	802.3af		
SD card	Yes (Up to 128 GB)		
Power Supply	12V/2A		
Power Consumption	Less than 7W		
LAN Port Speed	10/100 Mbps		

2MP BULLET CAMERAS

MATRIX CAMERAS	SATATYA CIBR20FL36CWS Fixed lens	SATATYA CIBR20FL60CWS Fixed lens	SATATYA CIBR20VL12CWS Varifocal lens
Motion Detection		Yes	
View Tamper		Yes	
Line intrusion/ Directional motion/ Trip Wire		Yes	
Zone Intrusion		Yes	
IP-Conflict		Yes	
Network-Disconnect		Yes	
Storage Alert		Yes	
Actions	Email/TCP/ SMS Notifications , Alarm Recording & Image/Clip Upload		
Operating Temperature/Humidity	0 to 50 Degree Celsius		
FCC Part-15 Class-B		Yes	
Ingress Protection		IP66	
Weight		920gm	

2MP DOME CAMERAS

MATRIX CAMERAS	SATATYA CIDR20FL36CWS Fixed lens	SATATYA CIDR20FL60CWS Fixed lens	SATATYA CIDR20VL12CWS Varifocal lens
Sensor type and size	SONY - CMOS 2MP Active Pixel Progressive Scan, Back Illuminated Image sensor(Exmor Technology - STARVIS Series) Size: 1/2.8"		
Spectral response	300nm - 1000nm		
Minimum illumination(b/w)	0 Lux with IR LED On		
Minimum object distance	0.3m		
IR led type	4 - Array LEDs		
IR range	20m		
Focal length	3.6mm	6mm	2.8-12mm
HFOV(degrees)	90°	57°	106° to 32°
Aperture	M12x05	M12x05	M14
Iris control	No		Yes
Zoom	No		Yes(Manual)
Focus	No		Yes(Manual)

2MP DOME CAMERAS

MATRIX CAMERAS	SATATYA CIDR20FL36CWS Fixed lens	SATATYA CIDR20FL60CWS Fixed lens	SATATYA CIDR20VL12CWS Varifocal lens
Maximum Resolution	1920*1080(2MP) @ 30fps		
Available Resolutions	1080p(2MP)/720p/D1/2CIF/CIF		
Stream Profiles	Four streams are supported Profile 1: 2MP up to 30fps (H.265/H.264) Profile 2: D1 up to 5fps (MJPEG) Profile 3: D1 up to 30fps (H.265/H.264) Profile 4: 720p up to 30fps (H.265/H.264/MJPEG)		
Max. Number of Simultaneous Streams	4		
Bitrate Type	CBR/VBR		
Bitrate	512Kbps - 4Mbps		
Video Compression	H.265/H.264/MJPEG		
Frame Rate	1 - 30fps		
GOP	1 - 100		
Shutter Speed	1/12500s to 1/25s		
Adaptive Stream	Yes		
Smart Stream	Yes (Max. 3 Windows)		
ONVIF Profile	S		

2MP DOME CAMERAS

MATRIX CAMERAS	SATATYA CIDR20FL36CWS Fixed lens	SATATYA CIDR20FL60CWS Fixed lens	SATATYA CIDR20VL12CWS Varifocal lens
ROI	Yes		
BLC	Yes		
White Balance	Auto/Fluorescent/Incandescent/Sunny		
Digital Zoom	Yes		
E-PTZ	Yes		
Digital WDR	Yes		
True WDR	Yes		
Noise Filter(2DNR)	Yes (Auto/Manual)		
3DNR	Yes (Auto/Manual)		
Image Enhancement	Saturation/ Contrast/Brightness/Hue/Sharpness/Rotate		
Edge Recording	Yes		
Network Recording	Yes		
Image-Snapshots	Yes		
Standard POE	802.3af		
SD card	Yes (Up to 128 GB)		
Power Supply	12V/2A		
Power Consumption	Less than 7W		
LAN Port Speed	10/100 Mbps		

2MP DOME CAMERAS

MATRIX CAMERAS	SATATYA CIDR20FL36CWS Fixed lens	SATATYA CIDR20FL60CWS Fixed lens	SATATYA CIDR20VL12CWS Varifocal lens
Motion Detection	Yes		
View Tamper	Yes		
Line intrusion/ Directional motion/ Trip Wire	Yes		
Zone Intrusion	Yes		
IP-Conflict	Yes		
Network-Disconnect	Yes		
Storage Alert	Yes		
Actions	Email/TCP/ SMS Notifications , Alarm Recording & Image/Clip Upload		
Operating Temperature/Humidity	0 to 50 Degree Celsius		
FCC Part-15 Class-B	Yes		
Ingress Protection	IP66		
Weight	1400gm		

3MP BULLET CAMERAS

MATRIX CAMERAS	SATATYA CIBR30FL36CWS Fixed lens	SATATYA CIBR30FL60CWS Fixed lens	SATATYA CIBR30VL12CWS Varifocal lens
Sensor type and size	SONY - CMOS 2MP Active Pixel Progressive Scan, Back Illuminated Image sensor(Exmor Technology - STARVIS Series) Size: 1/2.8"		
Spectral response	300nm - 1000nm		
Minimum illumination(b/w)	0 Lux with IR LED On		
Minimum object distance	0.3m		
IR led type	4 - Array LEDs		
IR range	20m		
Focal length	3.6mm	6mm	2.8-12mm
HFOV(degrees)	82°	52°	106° to 32°
Aperture	F 1.2	F 1.2	F 1.4
Iris control	No		Yes
Zoom	No		Yes(Manual)
Focus	No		Yes(Manual)

3MP BULLET CAMERAS

MATRIX CAMERAS	SATATYA CIBR30FL36CWS Fixed lens	SATATYA CIBR30FL60CWS Fixed lens	SATATYA CIBR30VL12CWS Varifocal lens
Maximum Resolution	2048*1536(3MP)@ 30fps		
Available Resolutions	2048*1536(3MP)/1080p(2MP)/720p/D1/2CIF/CIF/QCIF		
Stream Profiles	Four streams are supported Profile 1: 3MP up to 30fps (H.265/H.264) Profile 2: D1 up to 30fps (H.265/H.264) Profile 3: D1 up to 5fps (MJPEG) Profile 4: 720p up to 30fps (H.265/H.264/MJPEG)		
Max. Number of Simultaneous Streams	4		
Bitrate Type	CBR/VBR		
Bitrate	512Kbps - 8Mbps		
Video Compression	H.265/H.264/MJPEG		
Frame Rate	1 - 30fps		
GOP	1 - 100		
Shutter Speed	1/12500s to 1/25s		
Adaptive Stream	Yes		
Smart Stream	Yes (Max. 3 Windows)		
ONVIF Profile	S		

3MP BULLET CAMERAS

MATRIX CAMERAS	SATATYA CIBR30FL36CWS Fixed lens	SATATYA CIBR30FL60CWS Fixed lens	SATATYA CIBR30VL12CWS Varifocal lens
ROI	Yes		
BLC	Yes		
White Balance	Auto/Fluorescent/Incandescent/Sunny		
Digital Zoom	Yes		
E-PTZ	Yes		
Digital WDR	Yes		
True WDR	Yes (120dB)		
Noise Filter(2DNR)	Yes (Auto/Manual)		
3DNR	Yes (Auto/Manual)		
Image Enhancement	Saturation/ Contrast/Brightness/Hue/Sharpness/Rotate		
Edge Recording	Yes		
Network Recording	Yes		
Image-Snapshots	Yes		
Standard POE	802.3af		
SD card	Yes (Up to 128 GB)		
Power Supply	12V/2A		
Power Consumption	Less than 7W		
LAN Port Speed	10/100 Mbps		

3MP BULLET CAMERAS

MATRIX CAMERAS	SATATYA CIBR30FL36CWS Fixed lens	SATATYA CIBR30FL60CWS Fixed lens	SATATYA CIBR30VL12CWS Varifocal lens
Motion Detection	Yes		
View Tamper	Yes		
Line intrusion/ Directional motion/ Trip Wire	Yes		
Zone Intrusion	Yes		
IP-Conflict	Yes		
Network-Disconnect	Yes		
Storage Alert	Yes		
Actions	Email/TCP/ SMS Notifications , Alarm Recording & Image/Clip Upload		
Operating Temperature/Humidity	0 to 50 Degree Celsius		
FCC Part-15 Class-B	Yes		
Ingress Protection	IP66		
Weight	920gm		

3MP DOME CAMERAS

MATRIX CAMERAS	SATATYA CIDR30FL36CWS Fixed lens	SATATYA CIDR30FL60CWS Fixed lens	SATATYA CIDR30VL12CWS Varifocal lens
Sensor type and size	SONY - CMOS 2MP Active Pixel Progressive Scan, Back Illuminated Image sensor(Exmor Technology - STARVIS Series) Size: 1/2.8"		
Spectral response	300nm - 1000nm		
Minimum illumination(b/w)	0 Lux with IR LED On		
Minimum object distance	0.3m		
IR led type	4 - Array LEDs		
IR range	20m		
Focal length	3.6mm	6mm	2.8-12mm
HFOV(degrees)	82°	52°	106° to 32°
Aperture	F 1.2	F 1.2	F 1.4
Iris control	No		Yes
Zoom	No		Yes(Manual)
Focus	No		Yes(Manual)

3MP DOME CAMERAS

MATRIX CAMERAS	SATATYA CIDR30FL36CWS Fixed lens	SATATYA CIDR30FL60CWS Fixed lens	SATATYA CIDR30VL12CWS Varifocal lens
Maximum Resolution	2048*1536(3MP)@ 30fps		
Available Resolutions	2048*1536(3MP)/1080p(2MP)/720p/D1/2CIF/CIF/QCIF		
Stream Profiles	Four streams are supported Profile 1: 3MP up to 30fps (H.265/H.264) Profile 2: D1 up to 30fps (H.265/H.264) Profile 3: D1 up to 5fps (MJPEG) Profile 4: 720p up to 30fps (H.265/H.264/MJPEG)		
Max. Number of Simultaneous Streams	4		
Bitrate Type	CBR/VBR		
Bitrate	512Kbps - 8Mbps		
Video Compression	H.265/H.264/MJPEG		
Frame Rate	1 - 30fps		
GOP	1 - 100		
Shutter Speed	1/12500s to 1/25s		
Adaptive Stream	Yes		
Smart Stream	Yes (Max. 3 Windows)		
ONVIF Profile	S		

3MP DOME CAMERAS

MATRIX CAMERAS	SATATYA CIDR30FL36CWS Fixed lens	SATATYA CIDR30FL60CWS Fixed lens	SATATYA CIDR30VL12CWS Varifocal lens
ROI	Yes		
BLC	Yes		
White Balance	Auto/Fluorescent/Incandescent/Sunny		
Digital Zoom	Yes		
E-PTZ	Yes		
Digital WDR	Yes		
True WDR	Yes (120dB)		
Noise Filter(2DNR)	Yes (Auto/Manual)		
3DNR	Yes (Auto/Manual)		
Image Enhancement	Saturation/ Contrast/Brightness/Hue/Sharpness/Rotate		
Edge Recording	Yes		
Network Recording	Yes		
Image-Snapshots	Yes		
Standard POE	802.3af		
SD card	Yes (Up to 128 GB)		
Power Supply	12V/2A		
Power Consumption	Less than 7W		
LAN Port Speed	10/100 Mbps		

3MP DOME CAMERAS

MATRIX CAMERAS	SATATYA CIDR30FL36CWS Fixed lens	SATATYA CIDR30FL60CWS Fixed lens	SATATYA CIDR30VL12CWS Varifocal lens
Motion Detection	Yes		
View Tamper	Yes		
Line intrusion/ Directional motion/ Trip Wire	Yes		
Zone Intrusion	Yes		
IP-Conflict	Yes		
Network-Disconnect	Yes		
Storage Alert	Yes		
Actions	Email/TCP/ SMS Notifications , Alarm Recording & Image/Clip Upload		
Operating Temperature/Humidity	0 to 50 Degree Celsius		
FCC Part-15 Class-B	Yes		
Ingress Protection	IP66		
Weight	1400gm		

MOTORIZED VARIFOCAL CAMERAS

MATRIX CAMERAS	SATATYA CIBR20MVL12CWP	SATATYA CIDR20MVL12CWP	SATATYA CIBR30MVL12CWP	SATATYA CIDR30MVL12CWP
Sensor type and size	SONY - CMOS 2MP Active			
	Pixel Progressive Scan,			
	Back Illuminated Image sensor(Exmor Technology - STARVIS Series)			
	Size: 1/2.8"			
Spectral response	300nm - 1000nm			
Minimum illumination(b/w)	0 Lux with IR LED On			
Minimum object distance	0.3m			
IR led type	4 - Array LEDs			
IR range	Up to 30m			
Focal length	2.8-12mm	2.8-12mm	2.8-12mm	2.8-12mm
HFOV(degrees)	98° to 33°	98° to 33°	88° to 30°	88° to 30°
Aperture	F 1.4 – F 2.8	F 1.4	F 1.4	F 1.4
Iris control	Yes (Auto/Manual)			
Zoom	Yes (Motorized)			
Focus	Yes (Motorized)			

MOTORIZED VARIFOCAL CAMERAS

MATRIX CAMERAS	SATATYA CIBR20MVL12CWP	SATATYA CIDR20MVL12CWP	SATATYA CIBR30MVL12CWP	SATATYA CIDR30MVL12CWP
Max. Resolution	1920*1080(2MP) @ 30fps		2048*1536(3MP)@ 30fps	
Resolutions	1080p(2MP)/720p/D1/2CIF/CIF		2048*1536(3MP)/1080p(2MP)/720p/D1/2CIF/CIF/ QCIF	
Stream Profiles	Profile 1: 2MP up to 30fps (H.265/H.264)		Profile 1: 3MP up to 30fps (H.265/H.264)	
	Profile 2: D1 up to 5fps (MJPEG)		Profile 2: D1 up to 30fps (H.265/H.264)	
	Profile 3: D1 up to 30fps (H.265/H.264)		Profile 3: D1 up to 5fps (MJPEG)	
	Profile 4: 720p up to 30fps (H.265/H.264/MJPEG)		Profile 4: 720p up to 30fps (H.265/H.264/MJPEG)	
Simultaneous Streams	4		4	
Bitrate Type	CBR/VBR		CBR/VBR	
Bitrate	512Kbps - 4Mbps		512Kbps - 8Mbps	
Video Compression	H.265/H.264/MJPEG		H.265/H.264/MJPEG	
Frame Rate	1 - 30fps		1 - 30fps	
GOP	1 - 100		1 - 100	
Shutter Speed	1/12500s to 1/25s		1/12500s to 1/25s	
Adaptive Stream	Yes		Yes	
Smart Stream	Yes (Max. 3 Windows)		Yes (Max. 3 Windows)	
ONVIF Profile	S		S	

MOTORIZED VARIFOCAL CAMERAS

MATRIX CAMERAS	SATATYA CIBR20MVL12CWP	SATATYA CIDR20MVL12CWP	SATATYA CIBR30MVL12CWP	SATATYA CIDR30MVL12CWP
ROI	Yes			
BLC	Yes			
White Balance	Auto/Fluorescent/Incandescent/Sunny			
Digital Zoom	Yes			
E-PTZ	Yes			
Digital WDR	Yes			
True WDR	Yes			
Noise Filter(2DNR)	Yes (Auto/Manual)			
3DNR	Yes (Auto/Manual)			
Image Enhancement	Saturation/ Contrast/Brightness/Hue/Sharpness/Rotate			
Edge Recording	Yes			
Network Recording	Yes			
Image-Snapshots	Yes			
Standard POE	802.3af			
SD card	Yes (Up to 128 GB)			
Power Supply	12V/2A			
Power Consumption	Less than 7W			
LAN Port Speed	10/100 Mbps			

MOTORIZED VARIFOCAL CAMERAS

MATRIX CAMERAS	SATATYA CIBR20MVL12CWP	SATATYA CIDR20MVL12CWP	SATATYA CIBR30MVL12CWP	SATATYA CIDR30MVL12CWP
Motion Detection	Yes			
View Tamper	Yes			
Line intrusion/ Directional motion/ Trip Wire	Yes			
Zone Intrusion	Yes			
IP-Conflict	Yes			
Network-Disconnect	Yes			
Storage Alert	Yes			
Actions	Email/TCP/ SMS Notifications , Alarm Recording & Image/Clip Upload			
Operating Temperature/Humidity	0 to 50 Degree Celsius			
FCC Part-15 Class-B	Yes			
Ingress Protection	IP66			
Weight	920gm	1400gm	920gm	1400gm

CONTACT US

For further information:

Call: +91 72278 82600

E-mail: More@MatrixComSec.com

Visit: www.MatrixVideoSurveillance.com

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 **MATRIX**
SECURITY SOLUTIONS

THANK YOU

SECURITY