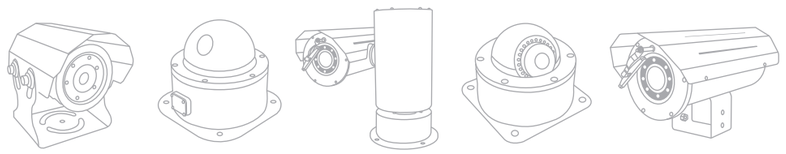
We are the world's leader in the design and manufacture of professional camera armor designed specifically for mobile, marine and other rugged security video applications.
We combine industry expertise with innovative technology to deliver a ruggedized solution to the market.

CORROSION BUSTER

Regardless of harsh environment
Best security surveillance solution

We provide you with a full line of certified Corrosion Proof Rugged cameras equipped with superior surveillance technology. Advanced features, competitive price and superior technical support makes us the clear choice for your customers diverse requirements.



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PRODUCTS GUIDE ▸▸

2M 30X Corrosion Proof HD IP PTZ Camera

Key Functions

- Auto Exposure, Auto White Balance · Triple Stream(H.264, MJPEG)
- Onvif Profile S · Easy Install : Zero Configuration, Discovery, PoE
- Event Boosting, FTP Image Upload, Web Casting, Open VPN, QoS, IP Filtering
- Cross Web Browsing(IE, Safari, Firefox, Chrome) · Privacy Masking
- Designed to Accept Future Software Upgrades Remotely · Event Buffering

NCX-2203PR

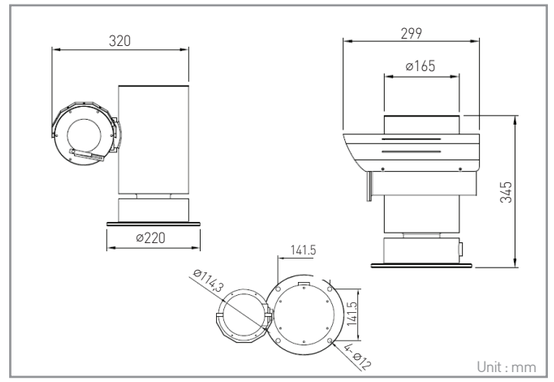
Key Features

- SUS 316L Electo-polished Stainless Steel for Optimum Corrosion Proof
- Integrated Wiper · Full HD(1920x1080) Resolution
- Optical Zoom 30X, Digital Zoom 16X
- 43 IR LEDs for 40m Coverage
- True WDR(120dB), True Day & Night
- Max. 50°/sec Speed(Preset)
- Alarm Input(1), Alarm Output(1) · 24VDC · IP67

Optional Accessory

- SUS316L Junction Box
- SUS316L Junction Box with Water tank

Dimension



Technical Specications

NCX-2203PR

IMAGE		
Lens		Optical Zoom 30X, 4.3~129mm
Angle of View		65.1~2.23°(H)
Image Sensor	Type	1/2.8" SONY STARVIS CMOS Sensor
	Pixels	1945(H)x1097(V)
Min. Illumination		Color : 0.35Lux / BW : 0.013Lux@50IRE, 0Lux(IR LED On)
Scanning Mode		Progressive Scan
Wide Dynamic Range		True WDR(120dB)
Day and Night Mode		True Day & Night
Noise Reduction		3DNR
Digital Zoom		16X
Exposure Control		Auto, Manual, Shutter Priority, Iris Priority
White Balance Control		Auto, Fluorescent, Incandescent, Outdoor, Manual
Back Light Compensation		Yes
Image Effect		Flip
Shutter Speed		25/30fps : Auto(1/30,000~x8sec), Manual 50/60fps : Auto(1/50,000~x8sec), Manual
IR Illuminator	Quantity	43 IR LEDs
	Angle	78°(H)
	Distance	Up to 40m
VIDEO/AUDIO		
Compression		H.264(Baseline, Main, High Profile), MJPEG
Bitrate Control		CVBR, VBR
Resolution		1920x1080, 1280x1024, 1280x720/960, 704x480/576, 640x360/480, 320x240
Frame Rate		Max. 50/60fps
Streaming		50/60fps(Dual Stream : H.264x1, MJPEGx1) 25/30fps(Triple Stream : H.264x2, MJPEGx1)
Audio Compression		G.711
Audio Streaming		2 Way
PTZ FUNCTION		
Pan Range / Pan Speed		360° / Min 0.7 °/sec ~ Max. 50°/sec.
Tilt Range / Tilt Speed		+/-90° / Min 0.6 °/sec ~ Max. 60°/sec.
Preset / Home Function		69 / Yes

SYSTEM	
Motion Detection Area	16 Programmable Area(Include Area 8, Exclude Area 8)
Privacy Masking	16 Programmable Zone
Event Notification	E-mail, FTP, Notification Server, XML Notification, Audio Alert, AIHM
Audio Alert	User-Defined 3 Audio Files
Login Authority	Administrator, Operator, Guest
Manual Trigger	4 Programmable Trigger
Security	Multi User Authority, IP Filtering, HTTPS, SSL
Network Time Sync	NTP Server, Synchronized Computer, Manual
Software Reset	Restart, Reset, Factory Default
Hardware Factory Reset	Yes
Auto Recovery	Backup, Restore
Remote Upgrade	Web Browsing(IE, Chrome, Safari, Firefox), SmartManager, NC-Titanium
NETWORK	
Protocol	TCP/IP, UDP, IPv4/v6, HTTP, HTTPS, QoS, FTP, UPnP, RTP, RTSP, RTCP, DHCP, ARP, Zeroconf, Bonjour
Client Software	Web, SmartManager, NC-Titanium, Tive HD
Max. User Connection	Live : 10 Users, Playback : 3 Users
API Support	Open API, Onvif Compliance
Mobile Support	Tive HD(Android, iOS)
EXTERNAL IN/OUT	
Audio	1 Input, 1 Output(RCA Mono Jack)
Alarm	1 Input, 1 Output
Ethernet	RJ-45(10/100Base-T)
ETC	
Operating Humidity	0~95% RH(Non-Condensing)
Operating Temperature	-40~+60℃
Power Supply	24VDC
Power Consumption	50W@24VDC
Dimension	320(W)x345(H)x299(D)mm
Net Weight	Approx. 18kg
Ingress Protection	IP67

Specifications are subject to change without notice.

2M 30X Corrosion Proof HD IP Fixed Camera

Key Functions

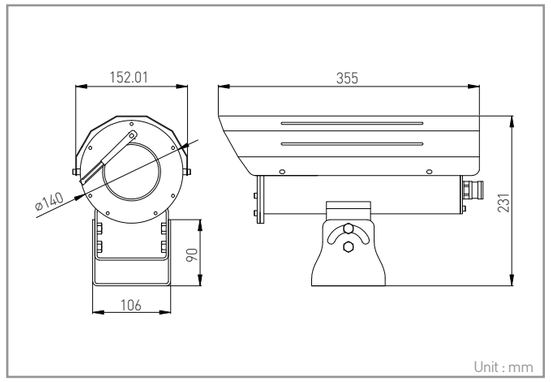
- Auto Exposure, Auto White Balance
- Triple Stream(H.264, MJPEG)
- Onvif Profile S
- Easy Install : Zero Configuration, Discovery
- Event Boosting, FTP Image Upload, Web Casting, Open VPN, QoS, IP Filtering
- Cross Web Browsing(IE, Safari, Firefox, Chrome)
- Privacy Masking
- Designed to Accept Future Software Upgrades Remotely
- Event Buffering

NCX-2203FR

Key Features

- SUS 316L Electo-polished Stainless Steel for Optimum Corrosion Proof
- Integrated Wiper
- Full HD(1920x1080) 50/60fps, 25/30fps
- 5.1~51mm 30x AF Optical Zoom Lens
- True WDR(120dB)
- True Day & Night
- 43 IR LEDs for 40m Coverage
- Alarm In/Out(1/1), Audio In/Out(1/1)
- 24VDC
- IP67

Dimension



Technical Specications

NCX-2203FR

IMAGE		
Lens		Optical Zoom 30X, 4.3~129mm
Angle of View		65.1~2.23°(H)
Image Sensor	Type	1/2.8" SONY STARVIS CMOS Sensor
	Pixels	1945(H)x1097(V)
Min. Illumination		Color : 0.35Lux, BW : 0.013Lux, 50IRE
Scanning Mode		Progressive Scan
Wide Dynamic Range		True WDR(120dB)
Day and Night Mode		True Day & Night(Auto, Day, Night)
Noise Reduction		3DNR
Digital Zoom		16X
Exposure Control		Auto, Manual, Shutter Priority, Iris Priority
White Balance Control		Auto, Fluorescent, Incandescent, Outdoor, Manual
Back Light Compensation		Yes
Image Effect		Flip(Digital)
Shutter Speed		25/30fps : Auto(1/30,000~x8sec), Manual 50/60fps : Auto(1/50,000~x8sec), Manual
IR Illuminator	Quantity	43 IR LEDs
	Angle	78°(H)
	Distance	Up to 40m
AUTO FOCUS		
Focus System		Auto, One Push, Manual
Min. Working Distance		100mm(Wide End), 1000mm(Tele End)
VIDEO/AUDIO		
Compression		H.264(Baseline, Main, High Profile), MJPEG
Bitrate Control		CVBR, VBR
Resolution		1920x1080, 1280x1024, 1280x720/960, 1024x768, 704x480/576, 640x360/480, 320x240
Frame Rate		Max. 50/60fps
Streaming		50/60fps(Dual Stream : H.264x1, MJPEGx1) 25/30fps(Triple Stream : H.264x2, MJPEGx1)
Audio Compression		G.711
Audio Streaming		2 Way
SYSTEM		
Video Contents Analysis		DIS, Defog, Face Dectection, Tampering, Line Detector, Field Detector
Motion Detection Area		16 Programmable Area(Include Area 8, Exclude Area 8)
Event Notification		E-mail, FTP, Notification Server, XML Notification, Audio Alert, AIHM
Audio Alert		User-Defined 3 Audio Files
Login Authority		Administrator, Operator, Guest
Manual Trigger		4 Programmable Trigger
Security		Multi User Authority, IP Filtering, HTTPS, SSL
Network Time Sync		NTP Server, Synchronized Computer, Manual
Software Reset		Restart, Reset, Factory Default
Hardware Factory Reset		Yes
Auto Recovery		Backup, Restore
Remote Upgrade		Web Browsing(IE, Chrome, Safari, Firefox), SmartManager, NC-Titanium
SD Recording Mode		Event, Continuous
NETWORK		
Protocol		TCP/IP, UDP, IPv4/v6, HTTP, HTTPS, QoS, FTP, UPnP, RTP, RTSP, RTCP, DHCP, ARP, Zeroconf, Bonjour
Client Software		Web, SmartManager, NC-Titanium, Tive HD
Max. User Connection		Live : 10 Users, Playback : 3 Users
API Support		Open API, Onvif Compliance
Mobile Support		Tive HD(Android, iOS)
EXTERNAL IN/OUT		
Audio / Alarm		1 Input, 1 Output(Terminal Block)
Ethernet		RJ-45(10/100Base-T)
ETC		
Operating Humidity		0~95% RH(Non-Condensing)
Operating Temperature		-40~+60℃
Power Supply		24VDC
Power Consumption		25W@24VDC
Dimension		152(W)x231(H)x355(D)mm
Net Weight		Approx. 5.6kg
Ingress Protection		IP67

Specifications are subject to change without notice.

2M 20X Corrosion Proof HD IP Speed Dome Camera

Key Functions

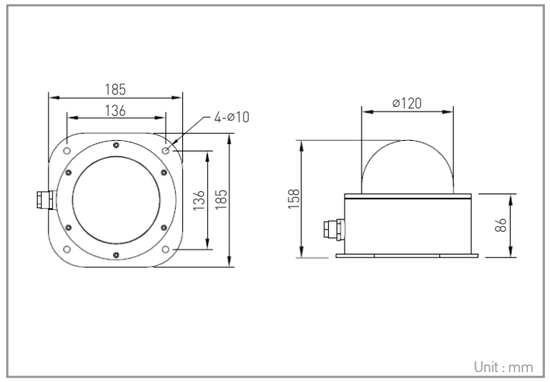
- Auto Exposure, Auto White Balance · Triple Stream(H.264, MJPEG) · Onvif Profile S
- Easy Install : Zero Configuration, Discovery, PoE
- Event Boosting, FTP Image Upload, Web Casting, Open VPN, QoS, IP Filtering
- Cross Web Browsing(IE, Safari, Firefox, Chrome) · Privacy Masking
- Designed to Accept Future Software Upgrades Remotely · Event Buffering

NCX-2202S

Key Features

- SUS 316L Electo-polished Stainless Steel for Optimum Corrosion Proof
- Well Balanced, Compact Unit
- Full HD(1920x1080) Resolution with Compact Design
- Optical Zoom 20X, Digital Zoom 16X
- True WDR(120dB), True Day & Night
- Max. 380°/sec Speed(Preset)
- Preset(256), Tour(8), Pattern(8), Privacy(16), Motion(16)
- Audio In/Out(1/1), Alarm In/Out(1/1)
- VCA(DIS, Defog, Face Dectector, Tampering, Line Detector, Field Detector)
- PoE, 12VDC, 24VAC
- IP67

Dimension



Unit : mm

Technical Specications

NCX-2202S

IMAGE		
Lens		Optical Zoom 20X, 4.7~94mm
Angle of View		55.5~3°(H)
Image Sensor	Type	1/2.8" SONY STARVIS CMOS Sensor
	Pixels	1945(H)x1097(V)
Min. Illumination		Color : 0.35Lux, BW : 0.013Lux@50IRE
Scanning Mode		Progressive Scan
Wide Dynamic Range		True WDR(120dB)
Day and Night Mode		True Day & Night
Noise Reduction		3DNR
Digital Zoom		16X
Exposure Control		Auto, Manual, Shutter Priority, Iris Priority
White Balance Control		Auto, Fluorescent, Incandescent, Outdoor, Manual
Back Light Compensation		Yes
Image Effect		Flip
Shutter Speed		25/30fps : Auto(1/30,000~x8sec), Manual 50/60fps : Auto(1/50,000~x8sec), Manual
VIDEO/AUDIO		
Compression		H.264(Baseline, Main, High Profile), MJPEG
Bitrate Control		CVBR, VBR
Resolution		1920x1080, 1280x1024, 1280x720/960, 704x480/576, 640x360/480, 320x240
Frame Rate		Max. 50/60fps
Streaming		50/60fps(Dual Stream : H.264x1, MJPEGx1) 25/30fps(Triple Stream : H.264x2, MJPEGx1)
Audio Compression		G.711
Audio Streaming		2 Way
PTZ FUNCTION		
Pan Range / Pan Speed		360°Endless / Max. 380°/sec.(Preset)
Tilt Range / Tilt Speed		-10~190° / Max. 380°/sec.(Preset)
Auto Calibration / Preset		0.1~6° / 256
Tour / Pattern		8
Home Function		Yes
SYSTEM		
Video Contents Analysis		DIS, Defog, Face Detector, Tampering, Line Detector, Field Detector
Motion Detection Area		16 Programmable Area(Include Area 8, Exclude Area 8)
Privacy Masking		16 Programmable Zone
Event Notification		E-mail, FTP, Notification Server, XML Notification, Audio Alert, AIHM
Audio Alert		User-Defined 3 Audio Files
Login Authority		Administrator, Operator, Guest
Security		Multi User Authority, IP Filtering, HTTPS, SSL
Network Time Sync		NTP Server, Synchronized Computer, Manual
Software Reset		Restart, Reset, Factory Default
Hardware Factory Reset		Yes
Auto Recovery		Backup, Restore
Remote Upgrade		Web Browsing(IE, Chrome, Safari, Firefox), SmartManager, NC-Titanium
NETWORK		
Protocol		TCP/IP, UDP, IPv4/v6, HTTP, HTTPS, QoS, FTP, UPnP, RTP, RTSP, RTCP, DHCP, ARP, Zeroconf, Bonjour
Client Software		Web, SmartManager, NC-Titanium, Tive HD
Max. User Connection		Live : 10 Users, Playback : 3 Users
API Support		Open API, Onvif Compliance
Mobile Support		Tive HD(Android, iOS)
EXTERNAL IN/OUT		
Audio		1 Input, 1 Output(3.5mm Stereo Jack)
Alarm		4 Input, 1 Output
Ethernet		RJ-45(10/100Base-T)
ETC		
Operating Humidity		0~90% RH(Non-Condensing)
Operating Temperature		-30~+50℃
Power Supply		24VAC
Power Consumption		1,500mA(22W)@24VAC
Dimension		185(W)x158(H)x185(D)mm
Net Weight		Approx. 4.25kg
Ingress Protection		IP67

Specifications are subject to change without notice.

3M Corrosion Proof HD IP Bullet Camera

Key Functions

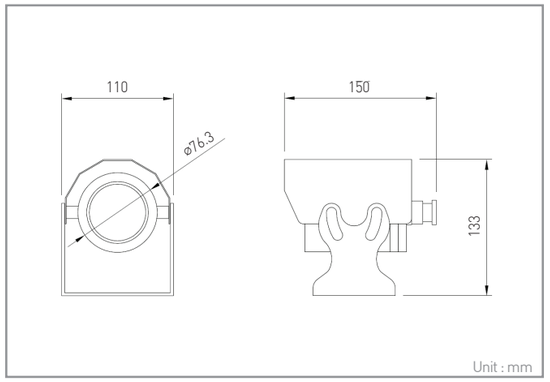
- Auto Exposure, Auto White Balance
- Triple Stream(H.264, MJPEG)
- Onvif Profile S
- Easy Install : Zero Configuration, Discovery, PoE
- Event Boosting, FTP Image Upload, Web Casting, Open VPN, QoS, IP Filtering
- Cross Web Browsing(IE, Safari, Firefox, Chrome)
- Privacy Masking
- Designed to Accept Future Software Upgrades Remotely
- Event Buffering

NCX-631UR

Key Features

- SUS 316L Electo-polished Stainless Steel for Optimum Corrosion Proof
- Well Balanced, Compact Unit
- Full HD(1920x1080) Resolution with Compact Design
- Optical Zoom 20X, Digital Zoom 16X
- True WDR(120dB), True Day & Night
- Audio In/Out(1/1), Alarm In/Out(1/1)
- PoE, 12VDC
- IP67

Dimension



Technical Specications

NCX-631UR		
IMAGE		
Lens		Fixed 3.7mm, F2.5
Angle of View		90°(H)
Image Sensor	Type	1/2.8" SONY STARVIS CMOS Sensor
	Pixels	2065(H)x1553(V)
Min. Illumination		Color : 0.2Lux / BW : 0Lux@F2.5, 50IRE
Scanning Mode		Progressive Scan
Wide Dynamic Range		D-WDR(ATR-EX)
Day and Night Mode		True D/N(Auto, Day, Night)
Noise Reduction		3DNR
Digital Zoom		16X
Exposure Control		Auto
White Balance Control		Auto, Incandescent, Fluorescent, Outdoor
Back Light Compensation		Yes
Image Effect		Flip, Mirror, Aisle, Defog, HLC, S-LDC
Flicker Free Mode		50Hz, 60Hz
Shutter Speed		Auto(1/10,000~1sec), Manual
IR Illuminator	Quantity	24 IR LEDs
	Angle	76°(H)
	Distance	Up to 25m
Motorized Lens Control		-
VIDEO/AUDIO		
Compression		H.264(Baseline, Main, High Profile), MJPEG
Bitrate Control		CVBR, VBR
Resolution		2048x1536, 1920x1080, 1280x720/1024, 704x480/576, 640x480, 352x240/288, 320x240
Frame Rate		Max. 25/30fps@3MP
Streaming		25/30fps(Triple Stream : H.264x2, MJPEGx1)
Composite Out		-
Audio Compression		G.711
Audio Streaming		2 Way
SYSTEM		
Video Contents Analysis		Tampering, Line Detector, Field Detector
Motion Detection Area		16 Programmable Area(Include Area 8, Exclude Area 8)
Privacy Mask Zone		8 Programmable Zone
Event Notification		E-mail, FTP, Notification Server, XML Notification, AIHM
Audio Alert		User-Defined 3 Audio Files
Login Authority		Administrator, Operator, Guest
Manual Trigger		4 Programmable Trigger
Security		Multi User Authority, IP Filtering, HTTPS, SSL
Network Time Sync		NTP Server, Synchronized Computer, Manual
Software Reset		Restart, Reset, Factory Default
Hardware Factory Reset		Yes
Auto Recovery		Backup, Restore
Remote Upgrade		Web Browsing(IE, Chrome, Safari, Firefox), SmartManager
NETWORK		
Protocol		TCP/IP, UDP, IPv4/v6, HTTP, HTTPS, QoS, FTP, UPnP, RTP, RTSP, RTCP, DHCP, ARP, Zeroconf, Bonjour
Client Software		Web, SmartManager, Client S/W, Mobile S/W
Max. User Connection		Live : 10 Users, Playback : 3 Users
API Support		Open API, Onvif Compliance
Mobile Support		Android, iOS
EXTERNAL IN/OUT		
Video Composite Out		-
Audio / Alarm		1 Input, 1 Output(Terminal Block)
Ethernet		RJ-45(10/100Base-T)
ETC		
Operating Humidity		0~90%RH(Non-Condensing)
Operating Temperature		-20~+50℃
Power Supply		PoE(IEEE802.3af Compliance, Class0), 12VDC
Power Consumption		5.7W@12VDC
Dimension		76.2(Ø)x85.2(H)x181(D)mm
Net Weight		Approx. 1.64g
Ingress Protection		IP67

Specifications are subject to change without notice.

3M Corrosion Proof HD IP Dome Camera

Key Functions

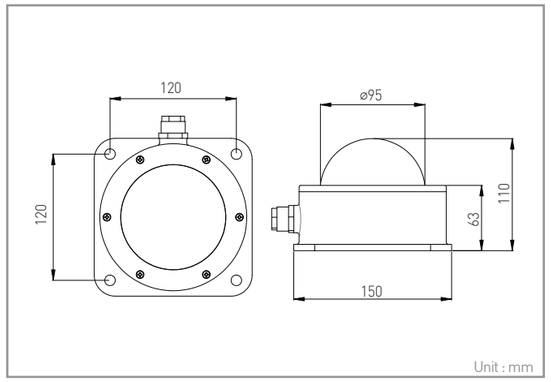
- Auto Exposure, Auto White Balance
- Triple Stream(H.264, MJPEG)
- Onvif Profile S
- Easy Install : Zero Configuration, Discovery, PoE
- Event Boosting, FTP Image Upload, Web Casting, Open VPN, QoS, IP Filtering
- Cross Web Browsing(IE, Safari, Firefox, Chrome)
- Privacy Masking
- Designed to Accept Future Software Upgrades Remotely
- Event Buffering

NCX-631VR

Key Features

- SUS 316L Electo-polished Stainless Steel for Optimum Corrosion Proof
- Well Balanced, Compact Unit
- 3M Resolution 25/30fps
- True Day & Night
- D-WDR(ATR-EX)
- 24 IR LEDs for 25m Coverage
- Audio In/Out(1/1), Alarm In/Out(1/1)
- PoE, 12VDC
- IP67

Dimension



Technical Specications

NCX-631VR

IMAGE		
Lens		Fixed 3.7mm, F2.5
Angle of View		90°(H)
Image Sensor	Type	1/2.8" SONY STARVIS CMOS Sensor
	Pixels	2065(H)x1553(V)
Min. Illumination		Color : 0.1Lux / BW : 0Lux@F1.4, 50IRE
Scanning Mode		Progressive Scan
Wide Dynamic Range		D-WDR(ATR-EX)
Day and Night Mode		True D/N(Auto, Day, Night)
Noise Reduction		3DNR
Digital Zoom		16X
Exposure Control		Auto
White Balance Control		Auto, Incandescent, Fluorescent, Outdoor
Back Light Compensation		Yes
Image Effect		Flip, Mirror, Aisle, Defog, HLC, S-LDC
Flicker Free Mode		50Hz, 60Hz
Shutter Speed		Auto(1/10,000~1sec), Manual
IR Illuminator	Quantity	25 IR LEDs
	Angle	76°(H)
	Distance	Up to 25m
Motorized Lens Control		Yes
VIDEO/AUDIO		
Compression		H.264(Baseline, Main, High Profile), MJPEG
Bitrate Control		CVBR, VBR
Resolution		2048x1536, 1920x1080, 1280x720/1024, 704x480/576, 640x480, 352x240/288, 320x240
Frame Rate		Max. 25/30fps@3MP
Streaming		25/30fps(Triple Stream : H.264x2, MJPEGx1)
Composite Out		-
Audio Compression		G.711
Audio Streaming		2 Way
SYSTEM		
Video Contents Analysis		Tampering, Line Detector, Field Detector
Motion Detection Area		16 Programmable Area(Include Area 8, Exclude Area 8)

Privacy Mask Zone	8 Programmable Zone
FTP Uploading	MJPEG
Event Notification	E-mail, FTP, Notification Server, XML Notification, AIHM
Audio Alert	User-Defined 3 Audio Files
Login Authority	Administrator, Operator, Guest
Manual Trigger	4 Programmable Trigger
Security	Multi User Authority, IP Filtering, HTTPS, SSL
Network Time Sync	NTP Server, Synchronized Computer, Manual
Software Reset	Restart, Reset, Factory Default
Hardware Factory Reset	Yes
Auto Recovery	Backup, Restore
Remote Upgrade	Web Browsing(IE, Chrome, Safari, Firefox), SmartManager
NETWORK	
Protocol	TCP/IP, UDP, IPv4/v6, HTTP, HTTPS, QoS, FTP, UPnP, RTP, RTSP, RTCP, DHCP, ARP, Zeroconf, Bonjour
Client Software	Web, SmartManager, Client S/W, Mobile S/W
Max. User Connection	Live : 10 Users, Playback : 3 Users
API Support	Open API, Onvif Compliance
Mobile Support	Android, iOS
EXTERNAL IN/OUT	
Video Composite Out	-
Audio	1 Input, 1 Output(Terminal Block)
Alarm	1 Input, 1 Output(Terminal Block)
Ethernet	RJ-45(10/100Base-T)
RS485	-
OSD Remote Control	-
ETC	
Operating Humidity	0~90%RH(Non-Condensing)
Operating Temperature	-20~+50℃
Power Supply	PoE(IEEE802.3af Compliance, Class0), 12VDC
Power Consumption	5.7W@12VDC
Dimension	150(W)x110(H)x150mm(D)
Net Weight	Approx. 2.64kg
Ingress Protection	IP67

Specifications are subject to change without notice.

2M 30X Corrosion Proof HD PTZ Camera

Key Functions

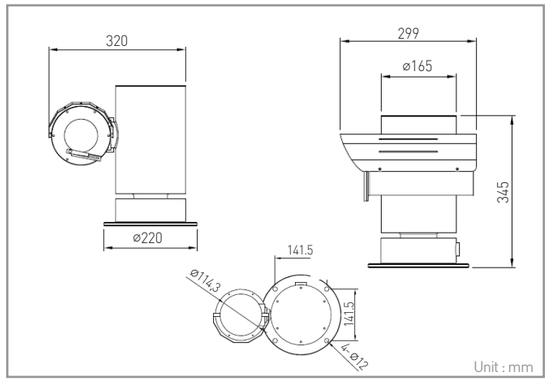
- AHD / TVI, ICVBS Selectable
- High Speed, Long Distance Real Time Transmission
- Defog, DIS · Motion Detection · Privacy Masking
- Coaxial Communication

HCX-2203PR

Key Features

- SUS 316L Electo-polished Stainless Steel for Optimum Corrosion Proof
- Integrated Wiper · Full HD(1920x1080) Resolution
- Optical Zoom 30X, Digital Zoom 16X
- 43 IR LEDs for 40m Coverage
- True WDR(120dB), True Day & Night
- Alarm Input(1), Alarm Output(1) · 24VDC · IP67

Dimension



Optional Accessory

- SUS316L Junction Box
- SUS316L Junction Box with Water tank

Technical Specications

HCX-2203PR

IMAGE		
Lens		Optical Zoom 30X, 4.3~129mm
Angle of View		65.1~2.23°(H)
Image Sensor	Type	1/2.8"SONY STARVIS CMOS Sensor
	Pixels	1,945(H)x1,109(V)
Min. Illumination		Color : 0.35Lux, BW : 0.013Lux 50IRE
Scanning Mode		Progressive Scan
Wide Dynamic Range		True WDR
Day and Night Mode		True Day & Night
Noise Reduction		2DNR, 3DNR
Digital Zoom		16X
Exposure Control		Auto, Manual, Shutter Priority, Iris Priority
White Balance Control		Auto, Fluorescent, Incandescent, Outdoor, Manual
Back Light Compensation		Yes
Image Effect		Flip(Digital)
Flicker Free Mode		50Hz, 60Hz
Shutter Speed		25 / 30fps : Auto(1/30,000~x8 sec.), Manual 50 / 60fps : Auto(1/50,000~x8 sec.), Manual
Defog		Yes
VIDEO		
Resolution		HD-TVI : 1080p@25 / 30fps, 720p@50 / 60fps AHD : 1080p@25 / 30fps
Video Output		HD-TVI or AHD, CVBS

PTZ FUNCTION	
Pan Range	360° Endless
Pan Speed	Min 0.7 °/sec ~ Max. 50°/sec.
Tilt Range	0 ~ 180°
Tilt Speed	Min 0.6 °/sec ~ Max. 60°/sec.
Auto Calibration	0.1 ~ 6°
Preset	69
Home Function	Yes
EXTERNAL IN / OUT	
Video TVI or AHD Output	BNC
Video Composite Output	BNC
Alarm	1 Input, 2 Output
Control	RS-485, Baud Rate : 2,400~38,400bps(Default : 9,600bps)
ID(Camera Adress)	1~3999
ETC	
Operating Humidity	0~95% RH(Non-Condensing)
Operating Temperature	-40 ~ +50℃
Power Supply	24VAC
Power Consumption	50W@24VAC
Dimension	320(W)x345(H)x299(D)mm
Net Weight	Approx. 18kg
Ingress Protection	IP67

Specifications are subject to change without notice.

2M 30X Corrosion Proof HD Fixed Camera

Key Functions

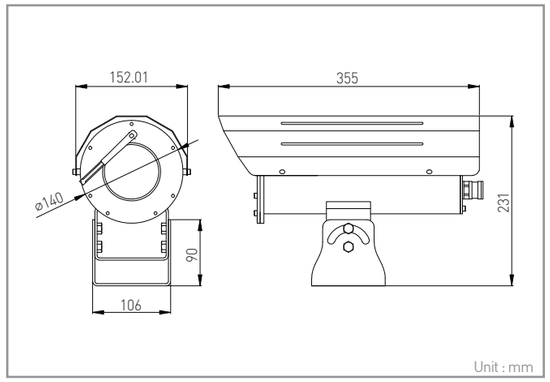
- AHD/TVI,ICVBS Selectable
- High Speed, Long Distance Real Time Transmission
- Defog, DIS · Motion Detection
- Coaxial Communication

HCX-2203FR

Key Features

- SUS 316L Electo-polished Stainless Steel for Optimum Corrosion Proof
- Integrated Wiper
- Full HD(1920x1080) 50/60fps, 25/30fps
- 4.3~129mm 30x AF Optical Zoom Lens
- True WDR(120dB)
- True Day & Night
- 43 IR LEDs for 40m Coverage
- Alarm In/Out(1/1), Audio In/Out(1/1)
- 24VDC
- IP67

Dimension



Technical Specications

HCX-2203FR

IMAGE		
Lens		Optical Zoom 30X, 4.3~129mm
Angle of View		65.1~2.23°(H)
Image Sensor	Type	1/2.8"SONY STARVIS CMOS Sensor
	Pixels	1,945(H)x1,109(V)
Min. Illumination		Color : 0.35Lux, BW : 0.013Lux 50IRE
Scanning Mode		Progressive Scan
Wide Dynamic Range		True WDR
Day and Night Mode		True Day & Night
Noise Reduction		2DNR, 3DNR
Digital Zoom		16X
Exposure Control		Auto, Manual, Shutter Priority, Iris Priority
White Balance Control		Auto, Fluorescent, Incandescent, Outdoor, Manual
Back Light Compensation		Yes
Image Effect		Flip(Digital)
Flicker Free Mode		50Hz, 60Hz
Shutter Speed		25/30fps : Auto(1/30,000~x8 sec.), Manual 50/60fps : Auto(1/50,000~x8 sec.), Manual
Defog		Yes

VIDEO	
Resolution	HD-TVI : 1080p@25/30fps, 720p@50/60fps AHD : 1080p@25/30fps
Video Output	HD-TVI or AHD, CVBS
EXTERNAL IN/OUT	
Video TVI or AHD Output	BNC
Video Composite Output	BNC
Alarm	1 Input, 1 Output
Control	RS-485, Baud Rate : 2,400~38,400bps (Default : 9,600bps)
ID(Camera Adress)	1~3999
ETC	
Operating Humidity	0~95% RH(Non-Condensing)
Operating Temperature	-40~+50℃
Power Supply	24VDC
Power Consumption	25W@24VDC
Dimension	152(W)x231(H) x 355mm (D)
Net Weight	Approx. 5.6kg
Ingress Protection	IP67

Specifications are subject to change without notice.

2M 20 X Corrosion Proof HD Speed Dome Camera

Key Functions

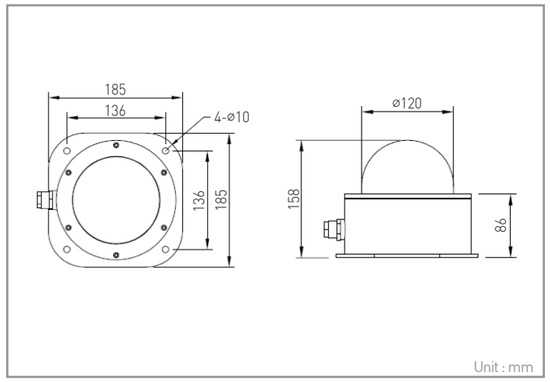
- AHD/TVI,ICVBS Selectable
- High Speed, Long Distance Real Time Transmission
- Defog, DIS · Motion Detection · Privacy Masking
- Coaxial Communication · Compact and Solid Structure

HCX-2202S

Key Features

- SUS 316L Electropolished Stainless Steel
- Hybrid HD Analog Camera : AHD or HD-TVI
- 1080p@25/30fps, 720p@50/60fps
- 20X Auto Focus Zoom Lens
- 16X Digital Zoom
- True WDR, True Day & Night
- Max. 380°/sec Speed(Preset)
- Preset(240), Tour(8), Pattern(8), Privacy(8)
- Alarm Input(4), Alarm Output(2)
- 24VAC
- IP67

Dimension



Technical Specications

HCX-2202S

IMAGE		
Lens		Optical Zoom 20X, 4.7~94mm
Angle of View		55.5~3°(H)
Image Sensor	Type	1/2.8"SONY STARVIS CMOS Sensor
	Pixels	1,945(H)x1,109(V)
Min. Illumination		Color : 0.35Lux, BW : 0.013Lux 50IRE
Scanning Mode		Progressive Scan
Wide Dynamic Range		True WDR
Day and Night Mode		True Day & Night
Noise Reduction		2DNR, 3DNR
Digital Zoom		16X
Exposure Control		Auto, Manual, Shutter Priority, Iris Priority
White Balance Control		Auto, Fluorescent, Incandescent, Outdoor, Manual
Back Light Compensation		Yes
Image Effect		Flip(Digital)
Flicker Free Mode		50Hz, 60Hz
Shutter Speed		25/30fps : Auto(1/30,000~x8 sec.), Manual 50/60fps : Auto(1/50,000~x8 sec.), Manual
Defog		Yes
VIDEO		
Resolution		HD-TVI : 1080p@25/30fps, 720p@50/60fps AHD : 1080p@25/30fps
Video Output		HD-TVI or AHD, CVBS

PTZ FUNCTION	
Pan Range	360°Endless
Pan Speed	Max. 380°/sec.(Preset)
Tilt Range	0~180°
Tilt Speed	Max. 380°/sec.(Preset)
Auto Calibration	0.1~6°
Preset	240
Tour / Pattern	8 / 8
Home Function	Yes
Privacy Mask Zone	8 Programmable Zones
EXTERNAL IN/OUT	
Video TVI or AHD Output	BNC
Video Composite Output	BNC
Alarm	4 Input, 2 Output(Terminal Block)
Control	RS-485, Baud Rate : 2,400~38,400bps(Default : 9,600bps)
ID(Camera Adress)	1~3999
ETC	
Operating Humidity	0~95% RH(Non-Condensing)
Operating Temperature	-30~+50℃
Power Supply	24VAC
Power Consumption	1.5A(22W)@24VAC
Dimension	185(W)x158(H) x 185mm (D)
Net Weight	Approx. 4.25kg
Ingress Protection	IP67

Specifications are subject to change without notice.

1080p Corrosion Proof HD Bullet Camera

Key Functions

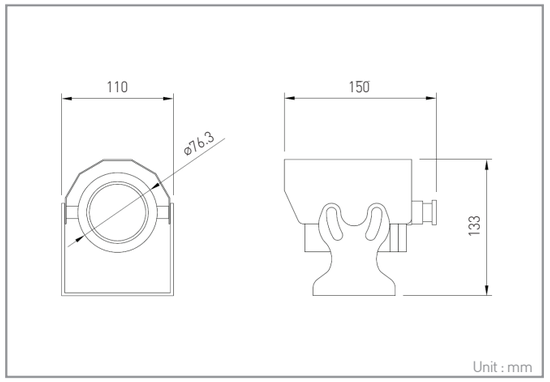
- AHD/CVBS Selectable
- High Speed, Long Distance Real Time Transmission
- N TSC/PAL Selectable

HCX-621UR

Key Features

- SUS 316L Electropolished Stainless Steel
- 1/2.8" 2.4M Sony Exmor CMOS Sensor
- 1920x1080p Full HD Resolution(AHD)
- 3.6mm Fixed Lens
- Digital WDR
- Day & Night(IR Cut Filter)
- 3 DNR(Digital Noise Reduction)
- Smart IR(24 IR LEDs)
- IP67
- SUS 316L Electropolished Stainless Steel

Dimension



Technical Specications

HCX-621UR

POWER		
Power Source		DC12V±10%
Power Consumption		Max. 4.5Watts(370mA)
GENERAL		
Image Sensor		1/2.8" 2.4M Sony CMOS
Total Pixels		2,000(H)x1,121(V)
Active Pixels		1,920(H)x1,080(V)
Scanning System		Progressive
Sync. System		Internal
Video Frame Rate		1920x1080p@25fps ; 1920x1080p@30fps
CVBS Resolution		1000TVL
Min. Illumination		1.0Lux(Color), 0Lux(BW, IR LED On)
Video Output		BNC (AHD-High Definition Video Output/CVBS-Standard Definition Video Output)
IR	IR LED	24EA IR LED(850nm)
	Distance	25M
S/N ratio		More Than 50dB(AGC Off)
Camera Control		OSD(Joystick switch, Coaxial Communication)

FUNCTION	
Auto Exposure	On
Electronic Shutter	Auto
White Balance	ATW(Auto)
Day & Night	Auto
DNR	2D/3D On
AGC	On
Gamma	Auto
CONNECTOR & ETC	
Power Input	DC Jack
Video Output	BNC Connector - AHD, CVBS
Transmission Distance	Over 500m Via 75-3 Coaxial Cable
Lens Mount	Fixed Mount
Lens	f=3.6mm F2.0 Fixed Lens, ICR(D&N)
Operating Temperature	-20~+50℃(14~122°F)
Operating Humidity	0~96%(Non-Condencing)
External Dimension	110(W)x133(H)x150(D)mm
Weight	Approx 1.64Kg
Ingress Protection	IP67

Specifications are subject to change without notice.

1080p Corrosion Proof HD Dome Camera

Key Functions

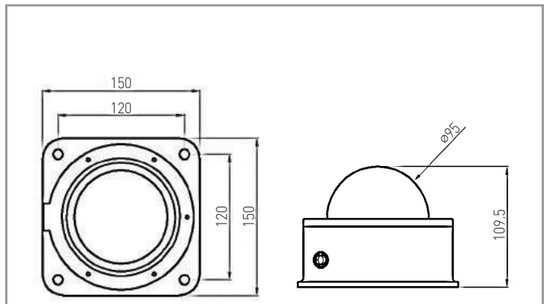
- AHD/CVBS Selectable
- High Speed, Long Distance Real Time Transmission
- N TSC/PAL Selectable · D efog · L SC(Lens Shading Correction)
- H SBLC(Hightlight Suppression BLC) · M otion Detection

HCX-625VR

Key Features

- SUS 316L Electropolished Stainless Steel
- 1/2.8" 2.4M Sony Exmor CMOS Sensor
- 1920x1080p Full HD Resolution(AHD)
- Digital WDR
- Day & Night(IR Cut Filter)
- 3DNR(Digital Noise Reduction)
- Sens-up(~x30)
- Smart I R(24 IR LEDs)
- IP67

Dimension



Unit : mm

Technical Specications

HCX-625VR

POWER		
Power Source		DC12V±10%
Power Consumption		Max. 4.3Watts(360mA)
GENERAL		
Image Sensor		1/2.8" 2.4M Sony CMOS
Total Pixels		2000(H)x1121(V)
Active Pixels		1920(H)x1080(V)
Scanning System		Progressive
Sync. System		Internal
Video Frame Rate		1920x1080p@25fps ; 1920x1080p@30fps
CVBS Resolution		1000TVL
Min. Illumination		1.0Lux(Color), 0Lux(BW, IR LED On)
Video Output		BNC (AHD-High Definition Video Output/CVBS-Standard Definition Video Output)
IR	IR LED	24EA IR LED(850nm)
	Distance	25m
S/N ratio		More Than 50dB(AGC Off)
Camera Control		OSD(Joystick switch, Coaxial Communication)
FUNCTION		
Lens		Manual
Exposure	Shutter	Auto, 1/60(1/50), FLK~1/50,000sec
	AGC	1~15
	Sens-Up	Off/Auto(x2, x4, x6, x8, x10, x15, x20, x25, x30)
	Brightness	1~100
	DWDR	Off/On/Auto
	Defog	Off/Auto
Backlight		Off/BLC/HSBLC

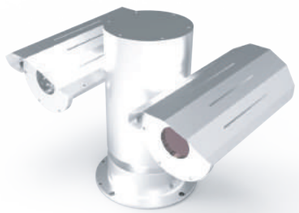
White Balance		ATW/Push/Indoor/Outdoor/Manual/AWB
Day & Night		Auto/Color/B&W
	2DNR	Off/Low/Middle/High
	3DNR	Off/Low/Middle/High
Special	Camera Title	Off/On
	D-Effect	Off/Freeze/Mirror/Neg.Image
	Motion Detection	Off/On(4 Zone)
	Privacy Masking	Off/On(4 Zone)
	Language	ENG/JPN/CHN1/CHN2/KOR/GER/FRA/ITA/SPA/POL/RUS/POR/NED/TUR/HEB/ARB
	Defect Detection	Live DPC/White DPC/Black DPC
	Sharpness	Off/Auto(0~10)
	Monitor	CRT/LCD
	LSC(Shading)	Off/On
	Video Mode	NTSC/PAL
	COMET	Off/On
Save & Exit		Save & Exit/No Save/Reset
CONNECTOR & ETC		
Power Input		DC Jack
Video Output		BNC Connector - AHD, CVBS
Transmission Distance		Over 500m Via 75-3 Coaxial Cable
Lens Mount		Fixed Mount
Lens		f=2.8~12mm F1.2~360 Varifocal, ICR(D&N)
Operating Temperature		-20~+50℃(14~122°F)
Operating Humidity		0~96%(Non-Condencing)
External Dimension		150(W) x 109.5(H)x150mm(D)
Weight		Appro. 1.64Kg
Ingress Protection		IP67

Specifications are subject to change without notice.

Thermal Camera

Key Features

- Made of Stainess Steel 316L
- LWIR, Uncollerd a-Si Micro-bolometer
- 19mm f1.03 Lens (HFOV:19.6°/ VFOV: 14.7°) (Wider range of different focal Lenses are available)
- 640x480
- <50mK @ f1.0 30Hz 300K
- 8-17μm
- IP and BNC models are available
- IP 67 rated



Dual PTZ Camera

Key Features

- Made of Stainess Steel 316L
- HD and Thermal Dual Video Image
- IP 67 Rated
- Endless Rataion of 360 degree pan
- x36 Ultra Low Light HD Video Imaging
- Wide range of lenses with different focal length optons for Thermal Imaging
- Compatible with Marine Radar Protocol - Positioning

Dual Fixed Camera

Key Features

- Made of Stainess Steel 316L
- HD and Thermal Dual Video Image : Various arrangements of Image / IR options are available
- Optical Image Stabilization for Effective Monitoring
- Anti Vibration Constriction
- IP 67 rated

Micro Dome Camera

Key Features

- Made of Stainess Steel 316L
- Compact Design in ceiling type micro dome
- High Video Quality of 3.21M Pixels
- Fixed 2.6mm Wide Angle Lens
- 107degree(H) Angle of View
- Auto Exposure / White Balance
- POE
- IP 67 rated

128CH Remote Monitoring Solution

Cx based Smart Software platform

Windows

- Simultaneous 128CH Live, Search, Playback, control in cross platform
- Intelligent Multi-Stream display & Bandwidth control
- Intuitive & Dynamic UI/UX
- Smart discovery connection, Screen merge, Rotation, ROI live
- Smart Health Monitoring : Status, Health, Event Map, Network Satus

Virtual Matrix

Video Management Solution

- Simultaneous multiple IP/HD analog/Analog display and control
- 4K Main output and Full HD controllable sub-monitor output
- Compact Video wall feature & full control of connected devices
- Redundancy recording with smart search
- Multiple video stream control · Alarm I/O support

Total Cost of Ownership

- Optimized Stand-alone system in front-end
- Easy to control with unified UI/UX
- Full control & recording without license

Smart functionality through WARP

- Loading the same display & control of remote recorder
- Full control capability of connected devices [Setup, Live monitoring, Search, Playback, Controls]
- Smart remote maintenance

H.264 H.265 4K Onvif PoE

Network Video Recorders

Key Features

- Recording Throughput 160/320Mbps
- 16CH/32CH Camera Inputs · H.265, 4K Camera Support
- Built-in 16CH PoE Switch · 16/32CH Live Display
- Alarm In/Out · Audio In/Out
- 4 SATA Internal HDD, 1 e-SATA · 2U 19" Rack Mountable

Full HD AHD HDTVI

Digital Video Recorders

Key Features

- Support AHD, TVI, 960H and D1 Camera
- Real Time Full HD Live/Playback with Smart Display
- Up to 240fps Full HD Recording
- Dual Recording(Main-Full, Sub-VGA) · Audio In/Out · Alarm In/Out
- Internal HDD : 4xSATA Port · 2U 19" Rack Mountable
- Live PIP Mode · Digital Zoom In/Out in Live/Playback(x2, x4, x6, x8)

Junction Box

- Stainless Steel 316L Construction
- Easy Installation and Maintenance
- Power Input 110~220V
- Power Output DC12~AC24V

Water Tank w JB

- Stainless Steel 316L Construction
- Easy Installation and Maintenance
- 5L Built In Watertank: 10m Hose, 20m/Sec
- Power Input 110~220V
- Power Output DC12~AC24V

KVM

- 4CH HDMI Input · 2CH HDMI Output
- Each Video Device Control by a USB Port
- Multi-split Video Mode Support
- IR Remote Controller Support
- 19" 1U Rack Mountable

Switch

- 8Port L2 POE Switch
- 24Port L2 POE Switch
- 10/100/1000Base-TX
- Non-Block Switching Fabric Architecture
- IPower Output (POE): 15.4/30.0 Watts (per Port)

Keyboard

- USB Interface for Easy Plug and Play
- 3-Axis Joystick Control of PTZ Functions
- Multi-Function Keys and LCD Display
- Jog Dial for Smoother Control of DVR
- Recalls Up to 254 Cameras
- System Compatibility with Multiple Protocols
- Stylish Design

Hybrid Cable

- LSZH Hybrid Cable
- CAT6 Hybrid Multi Network Cable
- Coaxial Hybrid Multi Cable