H.264/H.265 High-Definition, IP68 Dome Positioning System



Onvire ST NTCIP FDOT APL Approved HYBRID C (C) Convire

Made in the USA & NDAA Compliant

CostarHD's RISE 4220HD dome positioning system combines crystal clear HD image quality, bandwidth efficient H.265 or H.264 compression, smooth variable speed positioning and IP68 protection delivering the CostarHD quality and performance you expect!

The RISE 4220HD provides full 1080p imaging with 30x optical zoom, delivering full frame rate HD images over the entire zoom range for very cost effective long-range surveillance applications.

The quality of RISE 4220HD HD zoom optics far exceeds realized magnification range and magnification of 36x optics advertised in other products.

True day/night technology using a removable IR cut filter produces exceptional low light sensitivity down to 0.0000005 fc.

Advanced Optics

- Superior 1080p60 image quality
- Powerful 30x optical zoom with 12x digital zoom (360x total)
- Extreme low-light sensitivity of 0.0000005 fc
- Image defog/dehaze analytics
- Electronic image stabilization (Super Stabilizer +)
- Superior Wide Dynamic Range of 130db

Rugged Construction

- Designed Specifically for the ITS market
- Operates in hurricane force winds
- Built-in electrical transient/surge protection to CISPR 24 levels
- Precision positioning of 0.1°
- Pressurized IP68 ingress protection
- NEMA[®] TS2 temperature, -34°C to 74°C
- Lifetime Warranty on moisture ingress into camera head enclosure

Command Core+[™] Action Engine

- Automated camera responses
- Preset/Tour activations
- Digital I/O triggers and actions
- Image snapshots with FTP/EMAIL delivery
- Built-in Configuration Wizards

For installations subject to wind or vibration, electronic image stabilization assures steady, clear images.

The RISE 4220HD includes defog/dehaze image processing, enhancing video performance in foggy and hazy conditions encountered in surveillance and traffic monitoring applications.

The RISE 4220HD includes variable hi-speed pan and tilt drive, with 360° continuous pan and +10° to -90° tilt. Fast positioning speeds result in 180° movements in less than 1.5 seconds.

Providing multiple video stream profiles, the RISE 4220HD delivers up to 4 or more independently configured H.265/H.264/ MJPEG streams.



Installation and Interoperability

- ONVIF[®] Profile S and T compliant
- NTCIP 1205 compliant
- Hybrid IP/analog video-serial PTZ operation
- H.264, H.265 and MJPEG encoding
- Web server configuration, operation and viewing
- Inverted mounting capability
- Single CAT5e cable with PoE++
- Presets, tours, sectors and privacy zones
- LDAP, RADIUS, TACACS+ user authentication

Intelligent ITS Video Analytics:

- Vehicle Detection, Count and Speed, % Change of Speed (Included as standard feature in all models)
- Vehicle Classification*
- Traffic Incident Detection* (Stopped Vehicle, Wrong Way Direction)
- Pedestrian Detection*

The RISE 4220HD provides a full function web server, allowing complete administrative and operator control capabilities.

The RISE action engine generates automated system responses to input triggers including date/time schedules and repetitive timers that can activate output actions including presets, image snapshots with FTP/EMAIL uploads, OSD displays and digital outputs.

The RISE 4220HD is designed to operate in harsh weather with its IP68 enclosure protection. This eliminates the effects of water intrusion, pollutants and corrosives.

CostarHD delivers years of clean, reliable images and backs it with a world class three-year warranty.



youtube.com/CostarHD linkedin.com/company/CostarHD twitter.com/CostarHD facebook.com/CostarHD CostarHD.com



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CAMERA

Sensor 1/2.8" 2M STARVIS2 Progressive Scanning 1,920 x 1,080 (1080p) Resolution 60 fps Capture Rate Camera Format Day/Night (IR Cut Filter) S/N Ratio >50db SENSITIVITY (f1.6. 1/30. 50 IRE)

Standard

Standard	(11.0, 1/30, 30 me)
Color	0.009 lux (0.0008 fc)
B/W	0.00008 lux (0.000007 fc)
Digital Slow Shutter	(f1.6, 1/3, 30 IRE)
Color	0.0012 lux (0.0001 fc)
B/W	0.000005 lux (0.0000005 fc)

OPTICS

30x, 4.3 to 129mm
f1.6 -> f4.7
63.7° to 2.1° @ 1920x1080
Auto/Manual [Near/Far],
Normal, Interval, Zoom
Trigger
Normal/Low
Auto/Manual [Open/Close]
Three [Slow, Medium, Fast]
12x, Off/On [Depth]

IMAGE PROCESSING

Day/Night Mode	Auto, Color, B/W
Exposure Mode	Auto/Manual
Back Light Comp	Off/On
Shutter	Auto/Manual [1/1 ->
	1/10,000 - 22 step]
Digital Slow Shutter	Off/On [1/30->1/1] with
	Limit Setting
Defog Mode	Off/On/Auto [Defog Strength]
Image Stabilization	Off/On
Dynamic Range	130db, On/Off [Normal,
	Enhanced]
White Balance	Auto, Indoor, Outdoor,
	ATW, Sodium Vapor (Fix/
	Auto/Outdoor Auto)
AGC	1 to 48db, Adjustable
Noise Reduction	Off, 2D[NR Level], 3D [NR
	Level]

IP STREAM

Video Streams	4 independently configurable			OSD Background	Tran
	dependent on available	VIDEO ANALYTI	CS (VA)	OSD Location	Uppe
	processing budget	ITS Standard	Included in all models.		Right
Video Codec	H.264 [M, H]/H.265 [M],		Vehicle Detection, Count	Banner Display	On/C
	MJPEG		and Speed, % Change of		OSD
Video Protocols	RTSP/RTP		Speed, Multiple View	Logo Display	BMP
	RTSP Interleave		Analytics/PTZ Presets	0	[x,y]
	HTTP Tunneling	ITS Advanced*	Includes ITS Standard plus	PRIVACY MASKS	
	RTP Multicast		Vehicle Classification, Traffic	Capacity	Up to
Video Resolution	1080p, 720p, D1 (NTSC and		Incident Detection, Stopped		displ
	PAL), VGA, CIF, QVGA		Vehicle, Wrong Way		scree
Video Frame Rate	Up to 60 fps, 30 fps default		Direction	Color	User
Video Data Rate	64Kbps to 8Mbps	ITS Pedestrian	Includes ITS Standard plus	Mask Interlock	Masl
Video Rate Cntrl	CBR, VBR	Detection*	Pedestrian Detection		are s
Video GOV	1 to 600, 30 default				with
Video Latency	Four frames (0.133 sec.)	VA Notifications	ONVIF Events, SNMP Traps,		
Video Trans.	99.999% error free		Command Core+ Action	* License Fee Requ	iired

NE

NETWORK INTER	FACE
Network Format	802.3u 100Base-T, MDI-X
	auto-sensing, full duplex
Network Protocol	TCP, UDP, IPv4, ICMP, DNS,
	IGMPv2/v3, DHCP, RTP, RTSP,
	RTCP, NTP, HTTP, SOAP,
	HTTPS, ARP, FTP, SMTP,
	SNMP v1 2 3, TLS, SSL, AES,
	SMTP, QoS, NTCIP, Telnet,
	802.1X, ONVIF Profile S and
	T, TACACS+, LDAP, Radius,
	LLDP
Media Players	VLC, Quick Time or any
	media player compliant with
	RFC 2326, 3984, 3550, 2435,
	ISO/IEC 13818-1
	,
ONVIF	Profile S and T
Camera Protocols	ONVIF Profile S and T, NTCIP
	1205, CohuT, CohuHD legacy,
	FAST, Pelco D
Security	4 Levels: Admin, Operator,
Security	
	User, Anonymous [User
	Name + Password], Digest
	Authentication, Centralized
	Authentication
Undator	File upload over network
Updates	
	using camera web server
	interface
Configurations	Stored in Non-Volitile
Memory	
Browsers	Edge, Firefox, Chrome
BIOWSEIS	Luge, Thelox, Chrome
.	
DIGITAL I/O INTI	ERFACE
DIGITAL I/O INTI Digital Circuits	E RFACE Two digital I/O circuits, user
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	Two digital I/O circuits, user defined as either input or
Digital Circuits	Two digital I/O circuits, user defined as either input or output
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Digital Circuits	Two digital I/O circuits, user defined as either input or output ACE EIA-170A/RS-330 NTSC or PAL Video Format, 1 Volt ^{P-P} , 75
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Engine Output, CSV Files, Web Interface Display

SNMP Traps Vehicle Detected, Wrong Way Vehicle, Incident, Stopped Vehicle, Speed Change

COMMAND CORE+ ACTION ENGINE

COMMAND CORE	+ ACTION ENGINE		
Input Triggers	Digital input, FTP error,		
	Valid or invalid login,		
	Tour stopped, Timer,		
	Scheduler, Video Analytic		
	Event, Preset reached,		
	PTZ moved, Maintenance,		
	User command		
Output Actions	Digital Output, Activate		
	Wiper, FTP Image, Send		
	Email, Send Text, Start		
	Preset or Tour, Display		
	OSD Message, Timer/		
	Scheduler On/Off Mode		
	Control, Delay, Reset		
	System, Clear Analytics Stats		
Trigger Queuing	User selectable mode.		
	Processes output actions		
	by trigger priority, first in,		
	or last in.		
Servers	Multiple FTP and EMAIL		
	servers can be configured		
	for use by camera system		

ON SCREEN DISPLAY (OSD)

	• •
OSD Capacity	Up to 7 OSD Elements
	can be selected for
	display on video
OSD Elements	Text, Preset, Position,
	Compass, Date/Time,
	Sector, Maintenance,
	Action Event
OSD Characters	Up to 40 characters per text element
OSD Size	Adjustable from 12, 18, 24,
	30, 36, 42, 48, 54, 60, 72,
	84 or 96 pt. size
OSD Color	White, Black, Green, Red,
	Blue
OSD Transparancy	Adjustbale from 0-100%
OSD Background	Transparant, Black
OSD Location	Upper Right/Left, Lower
	Right/Left, Center, Custom
Banner Display	On/Off, Top/Bottom, 4
	OSD elements
Logo Display	BMP, GIF, JPEG, PNG Format,
	[x,y] position, Transparency
PRIVACY MASKS	
Capacity	Up to 24 rectangular masks,
	displayed on 8 places per
	screen simultaneously.
Color	User selectable
Mask Interlock	Mask positions and size
	are scaled and interlocked
	with PTZ movements

License Fee Required

H.264/H.265 High-Definition, IP68 Dome Positioning System

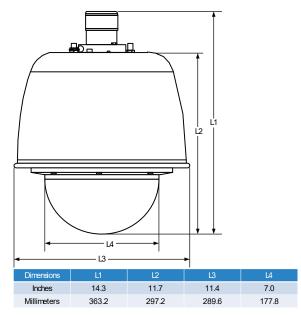


POSITIONING DI	RIVE	Internal Heaters	Two DC resistive heater	RJ45 Coupler	
	e 360° continuous rotation		assemblies, software	7610203-002	CAT5/6 RJ45 IP67 Coupler
	e +10° to -90°, 200° total		controlled, to maintain	Ethernet Surge Pr	
Preset Speed	Peak speed of 300°/sec		internal heat for operation	7412009-001	Outdoor IP67 rated
	180° movement < 1.5		down specified operating		ethernet/PoE++ surge
	Seconds		temperatures above.		protection device
Manual Speed	0.1° to 80°/second	Relative Humidity	Operation from 0-100%		
Speed Resolution	> 64 Variable speed levels	Vibration	Per NEMA TS2 para. 2.2.8.	WARRANTY	
Repeatability	+/- 0.1°		5-30Hz sweep @ 0.5g		y on dome enclosure moisture
Resolution	+/- 0.1°		applied in each of 3 mutually) years on camera and
Presets	Up to 256, Includes pan, tilt,	Shock	perpendicular planes.	positioner systen	n.
	zoom, focus, preset ID, I/O output state	SHOCK	Per NEMA TS2 para. 2.2.9. 10g applied in each of 3	ORDERING INF	OPMATION
Tours	Up to 256, Includes presets		mutually perpendicular	4220-1000-04	RISE IP68 Dome Camera
10015	with dwell, speed, direction		planes	4220 1000 04	System with 1080p 30x
	and recurrence properties.	Corrosion	MIL-STD-810H, Method		camera, H.264/H.265 IP
Auto Park	Returns to a preset or tour	0011001011	509.7, Paragraph 4.5.2		encoder, pan/tilt positioner
	after timer expires, Timer		All external fasteners		and IP68 enclosure system.
	Value [Off, 1 Minute to		are 18-8 SS or better		60W PoE++ power. Includes
	999 Hours]	Wind Survivability	Up to 150mph		a 45" RJ45 male pigtail and
Features	Auto focus/iris on PTZ,	,	120 mph for 45 minutes		ITS Standard Analytics.
	Proportional PTZ, Video		150 mph for 15 minutes		
	freeze on preset, High	Package Drop	Per ISTA 3A,	4224-1000-04	RISE IP68 Dome Camera
	wind/vibration mode,		Sequence 3 and 6		System with 1080p 30x
	Set north calibration,				camera, H.264/H.265IP
		EMC CERTIFICAT	IONS		encoder, pan/tilt positioner
ELECTRICAL		CE, FCC Part 15B (w	vith ICES-003 issue 7), ROHS		and IP68 enclosure system.
Input Voltage	PoE+, PoE++ or 24VAC/DC	CE Mark Europe/AS	5/NZS		24Vac/dc power.
	Model Dependent	FCC CAN/CSA/Nort	h America		Includes 18 pin MS
Power	PoE++ and 24VAC/DC 20W,	EN 55032			connector and ITS Standard
	60w with heater ON	EN 55035			Analytics.
	PoE+ 20W, 25.5W with	IEC 61000-3-2			
	heater ON	IEC 61000-3-3		4228-1000-04	RISE IP68 Dome Camera
Voltage Range	NEMA standard TS 2-2003	IEC 61000-4-2			System with 1080p 30x
Turnelout/Course	section 2.2.7 tests C thru H	IEC 61000-4-3 per (camera, H.264/H.265 IP
Transient/Surge	Certified to CISPR 24 levels Certified to CISPR 22 levels	IEC 61000-4-4 per (encoder, pan/tilt positioner
Emmissions	Certified to CISPR 22 levels	IEC 61000-4-5 per (IEC 61000-4-6 per (and IP68 enclosure system. 25.5 W PoE+ power. Includes
MECHANICAL		IEC 61000-4-8 per (a 45" RJ45 male pigtail and
Weight	12.5lbs (5.7kg) Camera	IEC 61000-4-11 per			ITS Standard Analytics.
in e.B.it	16.5lbs (7.5kg) Shipping	12002000 · 12 pc			
Dimensions	Refer to dimensional	ACCESSORIES		OPTIONAL ITS /	ANALYTICS
	diagram	Mounts		R-ITS-ADV	Advanced ITS Analytics:
	15"x15"x15" Shipping	Wall	7411420-001		Provides ITS Standard
	(381 x 381x 381 mm)	Pole	8518-2		Features PLUS Vehicle Size
Construction	Powder Coated aluminum	Field Cables			Classification,
Sunshield	Included as standard	CAT5e Cables	8194602-xxx [where xxx =		Incident Detection, Stopped
Color	Light Gray Cardinal Coating		025, 055, 100, 150, 200, 250,		Vehicle, Wrong Way
	T241-GR142		300, 328]		Direction.
Dome window	Nylon, Optically Correct		denoting cable length in feet.	R-ITS-PED	Pedestrian Detection:
IK10	Camera System except		Includes RJ45 connectors at		Provides ITS Standard
	dome window is IK10		each end of cable compliant		Features PLUS
			with EIA/TIA-568-B standard		Pedestrian Detection.
ENVIRONMENTA		Power Supply		R-ITS-ADP	Advanced ITS + Pedestrian:
Protection Rating	IP68 per IEC60529,	7412007-003	PoE++, 60W, 110/220VAC		Provides ITS
	Pressurized with		Input, IP50, -40 to 74°C,		Standard Features
	Dry Nitrogen, 3.5 psi. Water immersion at 1m for	7412007-004	Surface Mount PoE++, 60W, 12-48VDC Input,		PLUS Advanced ITS and Pedestrian Detection
	24 hours with no water	7412007-004	IP50, -40 to 74°C, DIN Rail		Features.
	ingress. Lifetime warranty on	7411543-010	24VAC, 100VA, 110/220VAC,		l'eatures.
	moisture ingress.	7411545-010	IP66, -34 to 74°C		
Operating Temp	•	PD-9501GO-ET	Outdoor IP67 Rated PoE++		
eperating relify	-29°F to 165°F (-34°C to 74°C)	. 5 550100 ET	Power Supply, Surface		
	Per NEMA [®] TS2, para 2.2.7		Mount, -40 to 65°C		
	4228-1000 PoE+ Model				
	14°F to 165°F (-10°C to 74°C)				

H.264/H.265 High-Definition, IP68 Dome Positioning System



DIMENSIONS



RJ45 PIGTAIL INCLUDED

RISE Series IP Video Cameras

Rugged Innovation with Superior Endurance

The RISE Series IP video cameras and designed and built by CostarHD for critical infrastructure applications demanding high-quality images, rugged construction and seamless interoperability. The RISE Series delivers advanced performance at unbeatable pricing.

About CostarHD[™]

CostarHD is a leading manufacturer of high-definition video systems designed to satisfy the demanding performance requirements for critical infrastructure applications. CostarHD solutions integrate the latest high-definition video imaging and compression technologies into ruggedized camera products for monitoring in critical, sensitive environments.