



CAMERA & VIDEO SYSTEMS

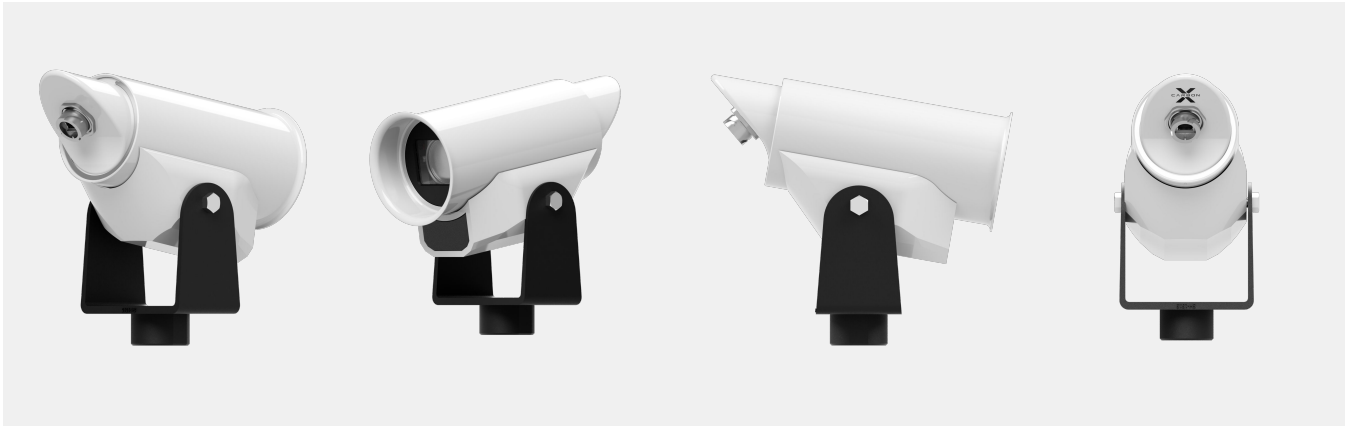
CARBON-X

MULTI-USE FIXED POSITION POE CAMERA



IP-68 Rated | 30X Optical Zoom | Image Stabilization | Wide Dynamic Range





KEY PHYSICAL FEATURES

- Self-Cleaning Hydrophilic Window Glass. No windshield wiper required
- Heated Window Glass Automatically De-fogs and De-ices camera class.
- Waterproof RJ45 Ethernet Connector Port
- Internal Temperature & Humidity Sensor
- IP-68-rated All Aluminum Enclosure
- Integrated Sunshield

ENVIRONMENTAL PERFORMANCE

Temperature Range	-40° C to +75° C (-40° F to +165° F)
Humidity	0 to 95% relative
Protection Rating	IP-68

POWER SPECIFICATIONS

Power Consumption	15 W Max
Power Connection	Power over Ethernet

PHYSICAL SPECIFICATIONS

Weight	4.5 lbs. (2.1 kg) ± 0.5 lbs.
Dimensions	3.98" W × 5.12" H × 9.45" L (101 mm W × 130 mm H × 240 mm L)
Exterior Materials	Powder coated Aluminum Exterior Housing
Exterior Fasteners	316 Stainless Steel Fasteners & Hardware

CERTIFICATIONS & CLASSIFICATIONS

FCC Class	FCC Part 15, Class A
Protection Rating	IP-68
NEMA Standard	NEMA TS2
WTI Manufacturer Warranty	3 Year Warranty
BABA Compliance	Fully BABA Compliant. Designed & Manufactured in California



IMAGE SENSOR

Sensor	1/2.8" Sony Starvis 2 CMOS Image Sensor
Total Pixels	2,014(H) x 1,196(V) = 2.4M Pixels
Effective pixels	1,965(H) x 1,113(V) = 2.18M Pixels
Resolution	1920x1080
Frame Rate	60/50fps, 30/25 fps
Min. Illumination	Color: 0.03 Lux @ (F1.7, AGC ON), BW: 0 Lux (w/ IR LED ON)
Scanning system	Progressive Scan

OUTPUT & NETWORK

Video Encoding	H.265 / H.264 / MJPEG
Bitrate	512~15000 kbps
Streaming	Quadruple (x4) IP Streaming Main Stream : up to 1920 x 1080 Second Stream : up to 1280 x 720 JPEG : 1920 x 1080
Network	10BASE-T/100BASE-TX
Protocol	IPv4, IPv6, IGMP, ICMP, ARP, TCP, UDP, DHCP, RTP, RTSP, RTCP, DNS, NTP, SMTP, FTP, HTTP, HTTPS, SSL/TLS
Connection Types	Unicast or Multicast
Control Compatibility	HTTP RESTful API, Onvif, Visca over IP

LENS, ZOOM, & FOCUS

Zoom Ratio	Optical x30 Zoom Digital x15 Zoom
Focal Length	f = 4.6mm ~ 138mm
Aperture Ratio	F1.63 (wide) ~ F4.85 (tele)
Focus Mode	Auto (Zoom Trigger, Timer Trigger, One Push) Manual (Slide Control, One Push)
Minimum Focus Distance	0.5 meters (wide), 5 meters (tele)

CAMERA FUNCTIONS

Exposure Modes	Auto Manual Indoor Mode 50hz / 60hz (Flicker-Free)
AGC (Gain Control)	Auto / Manual
Shutter Speed	1/25(30)/1/50(60) ~ 1/5,000
WDR / BLC / HLC	On / Off
Defog	Off / Low / Middle / High
Image Stabilization	On / Off
System Mode	NTSC / PAL
Privacy Mask	Max 8 Zones
Motion Detection	32 x 18 cell
OSD	Title, Date, Resolution
Security	Password protection, IP address filtering, Https encryption, brute force delay protection
Mirror	Off, Vertical Flip, Horizontal Flip, H+V Flip (180 degree rotation)
Dynamic Noise Reduction	2D&3D