IP Video Surveillance Systems
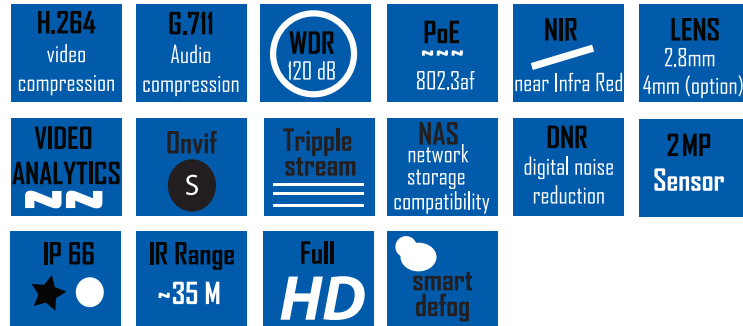# 2.0 MP PoE IR Fixed Lens Dome Camera

CAMETRON

CT 320 22 IBD 77WDP

Introduction

CAMETRON CT 320 22 IBD 77 WDP is full HD IR fixed lense eye ball dome camera with resolution of 2 Megapixels. Equipped with varifocal megapixel lens of 2.8mm / 4mm, the unit is designed for the multi purpose applications. The unit is incorporated with WDR function, hence is used for locations with varying lighting conditions. The near Infra Red (NIR) technology helps to boost image and video quality especially in dark as well as low light conditions, hence the clear images are transmitted without loss of details. The special electrical circuitry insures stability for locations or applications with power fluctuations with the surge and lighting protection unto 2000V.

H.264 video compression	**G.711** Audio compression	**WDR** 120 dB	**PoE** 802.3af	**NIR** near Infra Red	**LENS** 2.8mm 4mm (option)
VIDEO ANALYTICS	**Onvif** S	**Tripple stream**	**NAS** network storage compatibility	**DNR** digital noise reduction	**2 MP Sensor**
IP 66	**IR Range** ~35 M	**Full HD**	**smart defog**		

HD Video

CAMETRON CT 320 22 IBD 77 WDP full HD IR fixed lens cctv camera capable of capturing video surveillance footage at the resolution of 1920 x 1080 pixels. The video and pictures are super high resolution with zero loss of the details.

Compression Technology

H.264 video compression technology is the video compression technique used in this type of camera series with M-JPEG for the pictures hence both video & still images are captured and recorded with full details.

Tripwire Detection

Tripwire detection is used to define a virtual line within the camera view where an alert can be generated if an object is detected crossing the line. This way the user is able to configure the direction from where objects traveling across the tripwire to enable the triggering of an alarm.

Wide Dynamic Range (WDR)

WDR function helps to differentiate the scenarios in which stark contrasts and differences in darkness and brightness within the same image view is must. The unit supports the WDR at 120dB hence clear elemination of dark zones and all related errors

Near Infra Red (NIR)

NIR (Near Infra Red) is typical feature used in the Cametron professional CCTV Day & Night cameras. This feature allows IP CCTV cameras to use an illumination via LED or ZLID laser source to provide their own illumination to see the scences clearly in zero light conditions.

Perimeter Detection

It helps to easily identify the potential intruders automatically when they approach the fence line of particular range, hence makes the system to be a solution for primary warning & key deterrent. This function can be used as Perimeter Intrusion Detection.

Softwares Supported

CAMETRON CT 320 22 IBD 77 WDP IR cctv dome cameras are compatible with all major softwares & devices as the unit is Onvif (S) & Onvif (G) compliant. The unit comes with the basic software *Ctserver 32 for 32 Channels & can be upgraded to *Ctserver 64 for 64 Cameras if needed. The unit is compatible with *Ctserver Smart applications , hence accessible by the smartphones, the applications are available at Appstore & Android store

Product Features

- H.264 /MJPEG video compression technology
- Resolution unto 1920 x 1080
- HD Video at 2 Megapixel resolution
- Smart IR, IR range 35M (approx)
- Near Infra Red function
- Wide Dynamic Range 120dB
- IP 66 rated
- 35 Meter IR distance at 0 Lux
- 3D Digital Noise Reduction
- High Light Compensation
- Power on Ethernet
- Tripple Streams (main, sub & third)
- NAS Network Storage compatible
- Onvif - Profile S, Profile G
- Video analytics (tripwire & perimeter detection)
- Smart defog function
- TVS 6000 Lightning / Surge 2000V Protection
- Compatible with Observer 32, 64,128
- Smartphone applications Android observer
- Ultra Low Illumination 0.002 Lux F1.2, AGC ON

Infra Red (IR)

The IR LED's incorporated have the capability to capture video in low & no light (0 Lux) areas. The IR LEDs positioned around the outer edges of the camera lens for perfect illumination of the scenes in darkness, hence the better quality video is produced in the low or zero light conditions.. Even a small amount of ambient light helps the overall night vision capability of IR cameras a lot.

IP 66 Rating

The camera is designed wth the no ingress of dust; complete protection against contact (dust tight) and protection against the water projected in powerful jets (12.5 mm nozzle) against the enclosure from any direction. The system is tested at the water volumes of 100 litres per minute with the pressure of100 kPa at the distance of 3 m

Onvif S

This profiles allow users to easily identify specific interoperable features hence simplifies the concept of interoperability and the management of conformant products, and it addresses common functionalities.

Back Light Compensation (BLC)

Provides four different variations of BLC windows for extended application use. Its ability to handle most high contrast scenesallows for a seamless install with optimal picture quality.

CE FC RoHS

*Ctserver is the trademark associated with the Cametron for softwares & related applications

CT 320 22 IBD 77 WDP

TECHNICAL SPECIFICATIONS

CAMERA

Image Sensor	2 MP, 1/2.8" Sony Exmor CMOS
Core Processor	ARM 9 Architecture
Operating System	Embedded LINUX
Signal System	PAL / NTSC
Mini. Illumination	Color 0.02 Lux @(F1.2, AGC ON)
	B/W 0.001Lux @(F1.2, AGC ON)
	0 Lux with IR (on)
Shutter Time	1 Sec ~ 1/10000 Sec
Lens / Angle of view	2.8mm/108.7° , 14 mm/86°
Lens Mount	φ 12
Auto IRIS	-
Day& Night	IR Cut Filter With Auto Switch
Wide Dynamic Range	100 dB
Digital Noise Reduction	3D DNR

COMPRESSION

Video	H.264/MJPEG
Encoding Profile	High / Main / Base Line
Bit Rate	32K ~ 16 Mbps
Audio	G.711/AAC/ADPCM
Bit Rate	G 711 8K, 64 kbps
	ADPCM 8KHz, 32 kbps
	AAC 48KHz, 96 ~ 320 kbps

IMAGE

Resolution	1920 x 1080 (max)	
Frame Rate	PAL	25fps (1920 X 1080)
		25fps (1920 × 720)
	NTSC	30fps (1920 × 1080)
		30fps (1920 × 720)
Triple Stream	Mainstream 1080P (1920 x 1080)	
	Substream D1 (704 x 576)	
	3rd stream CIF(352 x 288)	
Settings	Brightness, Saturation, Contrast, Flip Mode Adjustable by Client Software or Web Browser	
HLC	Yes	
Smart Defog	Yes	
Corridor	for 1080P	
EIS	Yes	
ROI	4 zones	
Privacy Mask	4 zones	
Picture Overlay	200 × 200, BMP 24bit, Zone Configurable	

NETWORK

Browser	IE 7+, Chrome 18 +, Firefox 5.0 +
Network Storage	ftp
Video Analytics	Tripwire / Perimeter
Alarm Trigger	Motion Detection/IP Conflict/ MAC Conflict/Port Alarm
Protocols	TCP/IP/ICMP/HTTP/HTTPS/FTP /DHCP/DNS/DDNS/RTP/RTSP/ NTP/RTCP/PPPoE/NTP/UPnP/SMTP/ SNMP/IGMP/802.1X/QoS/IPv6/ Bonjour
User Permission	4 Level / 8 users
Remote Connection	3-ch Access
Compatibility	ONVIF (Profile S), SDK

INTERFACE

Audio Input	1 Ch
Audio Output	1 Ch
Communication	1Ch RJ45 10M / 100M Ethernet Interface, RS485
Alarm Input	1 Ch
Alarm Output	-
Video Output	-
On-board Storage	Micro SD ~128GB
Extension	USB 2.0 x 1

NIGHT VISION

IR LED'S	One peice array
IR Wavelength	850 nM
IR Range	35 M (approx) at 0 Lux

INGRESS & IMPACT RATING

IP Rating	IP 66
IK Rating	-

GENERAL

Operating Temperature	-30°C ～ 60° C (IR Off), -30°C ～ 40° C (IR On)
Operation Humidity	0 ～ 95% RH
Power Supply	DC 12V ± 10%
PoE	802.3af
Power Consumption	11W (IR off) 13W (IR on)
Protection	TVS 6000V, Lightning/ Surge 2000V
Dimensions (in mm)	136 x 136 x 98mm
Weight (camera)	0.6 Kg
Weight (Gross)	0.8 Kg

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SOFTWARES & AFFILIATIONS

SOFTWARES

Ctserver 32	32 Channel VMS basic Software Package
Ctserver 64	64 Channel VMS basic Software Package
Ctserver 128	128 Channel VMS basic Software Package
Ctserver E	256 Channel VMS entry Software Package
Ctserver P	256+ Channels VMS professional Software Package

COMPLIANCE

PSIA — PHYSICAL SECURITY INTEROPERABILITY ALLIANCE

ONVIF

AFFILIATION

axxon

Digifort — IP Surveillance System

exacq Technologies

milestone

Genetec

MIRASYS

Luxriot

See Tec

Ordering Information

CT 320 22 IBD 77 WDP	2.0 MP IR Fixed Lens Dome IP 66 rated with PoE IP CCTV Camera
CT 320 22 IBD 77 WD	2.0 MP IR Fixed Lens Dome IP 66 rated without PoE IP CCTV Camera

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