

# IP Video Surveillance Systems

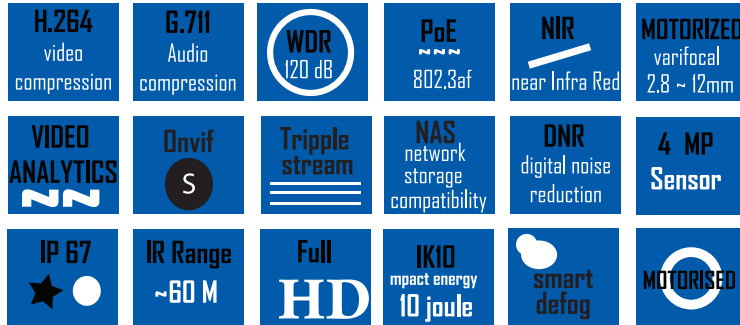
## 4 MP Motorized Bullet IR Network Camera



### CT-320 22 MBI 76 WH

#### Introduction

CAMETRON CT-320 22 MBI 76 WH is the full HD motorized IR bullet network camera with the resolution of 4.0 Megapixels. Equipped with the superior quality varifocal megapixel lens of 2.8~12mm, the unit is designed for the high risk applications especially for outdoor conditions & places with the harsh environmental conditions as the unit is IP 66 rated. The unit is incorporated with wide dynamic range function, hence can be used for the locations with varying lighting conditions. The near infra red (NIR) technology helps to boost image and video quality especially in the dark as well as low light conditions, hence the clear images are transmitted without the loss of details. The special electrical circuitry insures the stability for locations or applications with power fluctuations with the surge and lighting protection upto 2000V.



#### Product Features

- H.264 /MJPEG video compression technology
- G.711/AAC/ADPCM audio compression technology
- Resolution upto 2560 x 1440
- HD Video at 4 Megapixel resolution
- Near Infra Red function
- Smart IR Infra Red
- Dual IRC Infra Red cut filter
- Wide Dynamic Range 120dB
- IP 67 rated
- 55 ~ 60 Meter IR distance at 0 Lux
- 3D Digital Noise Reduction
- High Light Compensation
- Power on Ethernet 802.3af
- Tripple Streams (main, sub & third)
- NAS Network Storage compatible
- Onvif - Profile S
- 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

#### HD Video

CAMETRON CT-320 22 MBI 76 WH, full HD motorized IR bullet network camera is capable of capturing video surveillance footage at the resolution of 2560 x 1440 pixels. The video and pictures are super high resolution with zero loss of the details.

#### Compression Technology

H.264 video compression technology is the main 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 elimination 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 the IP CCTV cameras to use the illumination via LED or ZLID laser source to provide their own illumination to see the scenes 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 MBI 76 WH motorized bullet cameras is compatible with all major softwares & devices as the unit is Onvif ( S ) compliant. The unit comes with the basic software \*Observer 32 for 32 Channels & can be upgraded to \*Observer 64 for 64 Cameras if needed. The unit is compatible with \*Observer Smart applications , hence accessible by the smartphones, the applications are available at Appstore & Android store



#### 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 67 Rating

The camera is designed with the no ingress of dust; complete protection against contact (dust tight & Ingress of water in harmful quantity shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time (up to 1 m of submersion). Immersion at depth of at most 1 m measured at bottom of device, and at least 15 cm measured at top of device.

#### 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 scenes allows for a seamless install with optimal picture quality.



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

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### CT-320 22 MBI 76 WH

#### TECHNICAL SPECIFICATIONS

#### CAMERA

Image Sensor	4 MP, 1/3 " Sony Exmor CMOS
Core Processor	ARM 9 Architecture
Operating System	Embedded LINUX
Signal System	PAL / NTSC
Mini. Illumination	Color: 0.3 Lux @(F1.4, AGC ON) 0.1Lux @(F1.4, AGC ON) 0 Lux with IR (on)
Shutter Time	1 Sec ~ 1/10000 Sec
Lens / Angle of view	2.8 ~12 mm / 90.8°~ 32.1°
Lens Mount	φ 14
Auto IRIS	DC Drive
Day& Night	IR Cut Filter With Auto Switch
Wide Dynamic Range	120 dB
Digital Noise Reduction	3D DNR
Focus	Auto

#### COMPRESSION

Video	H.265/H.264 HP/MP/BP/M-JPEG
Bit Rate	32K ~ 16 Mbps
Audio	G.711A/G.711U/ADPCM/AAC
Bit Rate	G711 8KHz, 64 kbps ADPCM 8KHz, 32kbps AAC 48KHz, 96-320kbps

#### IMAGE

Resolution	2560 x 1440 (max)
Frame Rate	PAL: 1440p @25fps, QXGA @ 25fps, 1080p @25fps, 960p @ 25fps, 720p @25fps, 1280*720 @ 50fps NTSC: 1440p@25fps, QXGA@ 30fps, 1080p@ 30fps, 960p @ 30fps, 720p @30fps, 1280*720 @ 60fps
Triple Stream	Mainstream 1440P ( 2560 x 1440 ) 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	Yes
EIS	Yes
ROI	4 zones
Privacy Mask	4 zones
Picture Overlay	200 x 200, BMP 24bit, Zone Configurable

#### INGRESS & IMPACT RATING

IP Rating	IP 67
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#### NETWORK

Browser	IE 8 +, Chrome 30 , Firefox 24
Network Storage	NAS / FTP
ANR	Yes. Auto store of videos on SD Card on disconnection from network. Upload video to NVR on connectivity.
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/ RTCP/PPPoE/NTP/UPnP/SMTP/ SNMP/IGMP/802.1X/QoS/IPv6/ Bonjour
User Permission	4 Level / 8 users
Remote Connection	4-ch Access
Compatibility	ONVIF (Profile S, Profile G), SDK

#### INTERFACE

Audio Input	1 Ch
Audio Output	1 Ch
Communication	1Ch RJ45 10M / 100M Ethernet Interface, RS485
Alarm Input	2
Alarm Output	1
Video Output	1 Vp-p composite
On-board Storage	Micro SD Slot ~ 128GB
Extension	USB 2.0 x1

#### NIGHT VISION

IR LED'S	54 units φ5
IR Wavelength	850 nm
IR Range	55 ~60M (approx) at 0 Lux

#### GENERAL

Languages	English,Spanish,Korean,Italian,Turkish, Thai,Russian,Chinese,Polish,France
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	3.2 W ( IR off ) 7.4 W ( IR on ) 8.5W at instance of ICR switching
Protection	TVS 6000V, Lightning/ Surge 2000V
Dimensions (in mm)	337 x 107 x 107
Weight (camera)	1.2 Kg
Weight (Gross)	1.6 Kg



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SOFTWARES & AFFILIATIONS

## SOFTWARES

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



## COMPLIANCE



## AFFILIATION



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