

IP Video Surveillance Systems

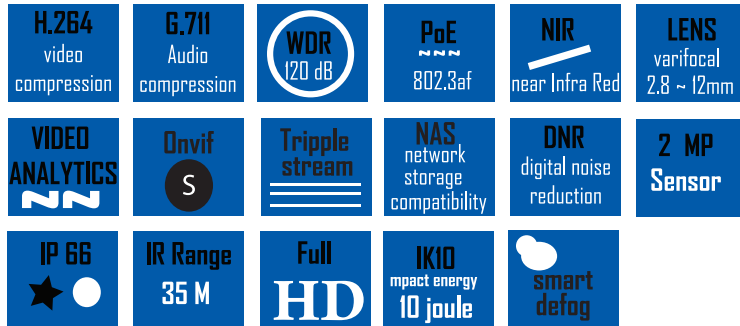
2.0 MP PoE Varifocal Vandal IR Dome Camera



CT-320 21 VFI 76WDL

Introduction

CAMETRON CT-320 21 VFI 76 WDL is the full HD IR vandal proof dome camera with resolution of 2.0 Megapixels. Equipped with 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 IP66 rated with IK10 certification. 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 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 1920 x 1080
- HD Video at 2 Megapixel resolution
- Near Infra Red function
- Wide Dynamic Range 120dB
- IP 66 rated, IK 10 certified
- 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
- 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
- USB Extension

HD Video

CAMETRON CT-320 21 VFI 76 WDL, full HD IR vandal proof dome 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 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 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 21 VFI 76 WDL varifocal dome cameras are compatible with all major softwares & devices as the unit is Onvif (S) 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



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 with 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 of 100 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 scencesallows for a seamless install with optimal picture quality.



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

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CT-320 21 VFI 76WDL 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 0.05 Lux @(F1.2, AGC ON) B/W 0.01Lux @(F1.2, AGC ON) 0 Lux with IR (on)
Shutter Time	1 Sec ~ 1/10000 Sec
Lens / Angle of view	2.8 ~12 mm / 94.3°~ 37.8°
Lens Mount	φ 14
Auto IRIS	DC Drive
Adjustment range	Pan 0° ~ 355°, Tilt 0° ~ 75° Rotation 0° ~ 355°
Day& Night	IR Cut Filter With Auto Switch
Wide Dynamic Range	100 dB
Digital Noise Reduction	3D DNR
Focus	Manual

COMPRESSION

Video	H.264/MJPEG
Bit Rate	32K ~ 8Mbps
Audio	G.711/AAC/ADPCM
Bit Rate	8K ~ 48Kbps

IMAGE

Resolution	1920 x 1080 (max)
Frame Rate	PAL 25fps (1920 X 1080) 25fps (1920 x 720) NTSC 30fps (1920 x 1080) 30fps (1920 x 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	Yes
EIS	Yes
ROI	4 zones
Privacy Mask	4 zones
Picture Overlay	200 x 200, BMP 24bit, Zone Configurable

NETWORK

Browser	IE 7+, Chrome 18 +, Firefox 5.0 +
Network Storage	NAS
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	2-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	-
Alarm Output	-
Video Output	-
On-board Storage	-
Extension	USB 2.0 x 1

NIGHT VISION

IR LED'S	30 units φ5
IR Wavelength	850 nm
IR Range	35 M (approx) at 0 Lux

INGRESS & IMPACT RATING

IP Rating	IP 66
IK Rating	IK 10

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)	152 x 152 x 128
Weight (camera)	1.2 Kg
Weight (Gross)	1.6 Kg

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CT-320 21 VFI 76WDL 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



AFFILIATION



Ordering Information

CT-320 21 VFI 76WDL	2.0 Megapixel Varifocal lens IR Vandal PoE Dome Digital WDR function IP 66 Rated IK10 Certified
CT-320 21 VFI 76DL	2.0 Megapixel Varifocal lens IR Vandal PoE Dome Digital WDR function IP 66 Rated IK10 Certified

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