

# IP Video Surveillance Systems

## 2 MP Speed Dome 30X Optical Zoom Camera



### CT 7053 0165 HSD

#### Introduction

CAMETRON CT 7053 0165 HSD is high definition IP speed dome camera with capability to capture the super high resolution videos and images without any loss of detail or/and definition. The high quality megapixel lens offers an optical zoom of 30 X and the digital zoom is upto 16 X at resolution of 1920 x 1080.

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 & video quality especially in the 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 with power fluctuations with the surge and lighting protection upto 2000V.

Ingress protection rating of IP 67 makes the unit best option for outdoor applications.

<b>H.264</b> video compression	<b>2 MP</b> Sensor	<b>ZOOM</b> OPTICAL 30X DIGITAL 16 X	<b>WDR</b> 120 dB	<b>NIR</b> near Infra Red	<b>Full</b> <b>HD</b>
<b>IP 67</b>	<b>VIDEO</b> <b>ANALYTICS</b>	<b>NAS</b> network storage compatibility	<b>Tripple</b> <b>stream</b>	<b>on board</b> <b>storage</b>	<b>Onvif</b> S G
<b>DNR</b> digital noise reduction	<b>PAN</b> 360 endless	<b>TILT</b> -15°~90°	<b>smart</b> <b>defog</b>	<b>Privacy</b> 4 Masks	

#### Product Features

- H.264 Video Compression
- Optical Zoom 30 X
- Digital Zoom 16 X
- Resolution 1280 x 960
- Speed Max 600°/s
- Tilt Angle -15~90°
- Near Infra Red ( NIR)
- Wide Dynamic Range (WDR)
- 3D Digital Noise Reduction (3D DNR)
- Dual Infra Red Cut Filter (IRC)
- Triple Streams
- Micro SD Slot < 128GB
- Intelligent Video Analytics (IVA)
- Smart Defog



#### HD Video

CAMETRON speed domes use the triple streaming feature, each stream can be set for different purpose, such as live viewing, recording & optimised for remote mobile apps. The H.264 codec is used for the main profile.

#### Pan, Tilt & Zoom

This allows PTZ camera to pan & tilt smoothly using the software controls via NVR, DVR, HVR etc or directly by joystick. This camera have an endless pan range of 360° with the pan speed of 0.1°~300°/s & the tilt range of -15°~90° auto flip at the tilt speed of 0.1°~240°/s & tilt Preset Speed 400°/s. Megapixel lens arrangement permits the optical zoom of 30X and digital zoom of 16X.

#### Near Infra Red (NIR)

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

#### Wide Dynamic Range (WDR)

WDR function helps to differentiate the scenarios in which stark contrasts & 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 & all related errors

#### IP 67 Rating

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

#### Softwares Supported

CAMETRON speed domes is 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. The unit is compatible with \*Ctserver Smart applications , hence accessible by the smartphones. And all applications are available at Appstore & Android store

#### 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.

#### 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.

#### Onvif S

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

#### Onvif G

This profile specification encompasses on-board video storage, searching, retrieval capabilities & media playback. It further refines an interoperability between live video and video storage

#### Back Light Compensation (BLC)

Provides 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.



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

# IP Video Surveillance Systems

## 2 MP Speed Dome 30X Optical Zoom Camera



CT 7053 0165 HSD

### TECHNICAL SPECIFICATIONS

#### CAMERA

Sensor	1/2.8" Sony Progressive Scan CMOS
Max. Image Resolution	1920 (H) x 1080 (V)
Pixels / Standard	1980(H) x 1080(V) / [ PAL / NTSC ]
Focal length	4.7mm ~ 129mm
Zoom speed	~3sec Optical (Wide / Tele)
Zoom ratio	30 X Optical, 16 X Digital
Angle of view	65.1°(W) ~ 2.34°(T)
Aperture range	F 1.6 ~ F 5.0
Exposure Mode	Auto/ Manual/ Iris First/ Shutter First
Shutter Time	1/25 ~ 1/10000S
Day& Night	IR Cut Filter with Auto Switch
Privacy Masking	4 Privacy Masks Programmable, Optional Multiple Colors
Auto Focus	Auto/ Semi-automatic/ Manual
OSD	16x16, 32x32, 24x24, 48x48, 64x64 Character size, Time, Date, Week, Character Superposition in 5 Regions PTZ Angle Superposition

#### VIDEO & IMAGE PERFORMANCE

Low Light Mode	Color 0.05Lux @(F1.6,50 IRE,ICR off) B/W0.01Lux @(F1.6,50 IRE,ICR on)
WDR	Yes, 100dB
Main Stream	50Hz 25fps(1280x960), 25fps (1280x720) 60Hz 30fps(1280x960), 30fps (1280x720)
Sub Stream	50Hz 25fps(704x576), 25fps (352x288), 25fps (176x144) 60Hz 30fps(704x480), 30fps (352x240), 30fps (176x120)
Third Stream	50Hz 25fps (352x288), 25fps (176x144) 60Hz 30fps (352x240), 30fps (176x120)
Image Compression	H.264/MJPEG, H.264 encoding with baseline/main/high Profile
ROI Encoding	4 Areas With Adjustable Levels
Audio Compression	G711A/G711U/ADPCM/AAC
Mini SD Card	Manual REC/ Alarm REC.

#### PAN & TILT

Pan Range	360° endless
Pan Speed	Pan manual speed 0.1°~300°/s (Stepless Speed)
Pan Preset Speed	600°/s
Preset Accuracy	±0.05°
Tilt Range	-15°~90°Auto Flip
Tilt Speed	Tilt Manual Speed 0.1°-240°/s
Tilt Preset Speed	400°/s Proportional Zoom Rotation speed can be adjusted automatically according to zoom multiples
3D Position	Yes
Number of Preset	256
Scan	8
Cruise	8, up to 32 presets per cruise
Pattern	8, each one with 180s memory or 300 orders
Power Loss Recovery	Yes
Guard Action	Preset / Cruise / Pattern / Scan
PTZ Position Display	Yes
Freeze Frame	Yes
Protocols	Pelco P, D etc.

#### COMPRESSION

Video	H.264 / 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

#### INTERFACE

Audio Input	1-ch Mic in (Line in Interface) Line Input 2-2.4 Vp-p Output Impedance 1 KΩ, ±10%
Audio Output	1-ch Line Level
Communication Interface	1-ch RJ45 10M, 100M Ethernet
Alarm Input	1Ch
Alarm Output	1Ch
On-board Storage	MicroSD Slot, up to 128GB

#### NETWORK

Ethernet	10Base-T, 100Base-TX, RJ45 Connector
Protocols	IPv4/IPv6/ HTTP/ HTTPS/ 802.1x/ Qos/ FTP/ SMTP/ UPnP/ SNMP/ DNS/ DDNS/ NTP/ RTSP/ RTP/ TCP/ UDP/ IGMP/ ICMP/ DHCP/ PPPoE
Remote Connection	2 Users / session
User Permission	Up to 32 Users, 4 Levels
Security Measures	User Authentication (ID and PW), Host Authentication (MAC Address) IP Address Filtering
Web Browser	IE8,IE9,IE10,IE11,Chrome30,Firefox24
System Compatibility	ONVIF (Profile S), SDK, CGI

#### INTELLIGENT VIDEO ANALYTICS

Video Analytic(VCA)	Tripwire, Perimeter, Alarm counting
Intelligent Alarm	Motion detection, Cover alarm, Port alarm, Network disable alarm, IP Conflict, MAC Conflict detection

#### CERTIFICATIONS

CE	Yes
FCC	Yes
IP Rating	IP 67
Vandal resistance	IK 10 impact resistance

#### POWER

Power Supply	AC 24 V, 2A
Power Consumption	17.2W / 19.3W(ICR Instant Switch)

#### GENERAL

Language	English, Spanish, Korean, Italian, Turkish, Thai, Russian, Traditional Chinese
Operating Temperature	-40°C-70°C,
Operation Humidity	0~95% RH
Dimensions (mm)	298 x 216 x 216
Weight	3.5KG (Speed dome & power adaptor) 6KG ( With Packing Box )

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



# IP Video Surveillance Systems 2 MP Speed Dome 30X Optical Zoom Camera



CT 7052 0165 HSD

## ACCESSORIES, SOFTWARES & AFFILIATIONS

CT WM 701  
CEILING MOUNT BRACKET

CT WM 711  
WALL MOUNT BRACKET



## SOFTWARES

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



## COMPLIANCE



## CAMETRON COMMUNICATIONS (EUROPE) LIMITED

### REGISTERED OFFICE

71-75 Shelton Street | Covent Garden | London | WC2 H9JQ | United Kingdom

Website: [www.cametron.com](http://www.cametron.com) | Email: [sales@cametron.com](mailto:sales@cametron.com)

Company No: 1234567 | Registered in England & Wales, United Kingdom. CAMETRON, CAMETRON trademark and logo, CTSERVER & logo are registered trademarks of CAMETRON COMMUNICATIONS (EUROPE) LIMITED, registered and pending in various countries. All brand names are registered trademarks of their respective owners, and are used with permission or as allowed under applicable laws.



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