

# TECNOVIDEO

CCTV SYSTEMS AND ACCESSORIES

## EXPTZDUALTV4 SERIES

EXPLOSIONPROOF ULTRA HD PTZ DUAL CAMERA STATION

HAZARDOUS AREA

- ATEX/IECEX/UKCA/INMETRO DUAL PTZ FOR HAZARDOUS LOCATIONS
- AISI316L STAINLESS STEEL CONSTRUCTION
- ULTRA HD 4K CAMERA, 30FPS, 22x AUTOFOCUS OPTICAL ZOOM
- AISI316L STAINLESS STEEL CONSTRUCTION
- CERTIFICATION TEMPERATURE -40°C +75°C
- OPTIONAL BUILT-IN FIBER MEDIA CONVERTER
- OPTIONAL BUILT-IN 115VAC or 230VAC POWER SUPPLY
- PATENTED GRIDLESS THERMAL WINDOW AVAILABLE

### TECHNICAL SPECIFICATIONS

#### GENERAL & MECHANICAL

|                              |                                                    |
|------------------------------|----------------------------------------------------|
| <b>Dimensions</b>            | See drawings next page                             |
| <b>Operating Temperature</b> | -40° +60°C, +75°C peak (-40°F +140°F, +167°F peak) |
| <b>Construction</b>          | AISI316L Stainless Steel                           |
| <b>Finish</b>                | Electro-polished                                   |
| <b>Mounting</b>              | 4x Ø11 on 195 PCD                                  |
| <b>Cable entries</b>         | 1x M25x1,5 cable entry                             |
| <b>Wiper</b>                 | Yes                                                |
| <b>Pan Angle</b>             | 360° (continuous rotation)                         |
| <b>Pan Speed</b>             | 0 – 40°/second                                     |
| <b>Pan Torque</b>            | 20Nm (limited with safety device)                  |
| <b>Tilt Angle</b>            | 180° (+/-90°)                                      |
| <b>Tilt Speed</b>            | 0 – 20°/second                                     |
| <b>Tilt Torque</b>           | 20Nm (limited with safety device)                  |
| <b>Rotation angle</b>        | Electronically adjustable                          |
| <b>Backlash</b>              | <0,1°                                              |
| <b>Max preset accuracy</b>   | 0.04°                                              |
| <b>Control protocol</b>      | Pelco D (via RS485)                                |
| <b>Weight</b>                | Unit: 48,5kg / Package: 54kg                       |

#### ELECTRICAL

|                                           |                                                         |
|-------------------------------------------|---------------------------------------------------------|
| <b>Thermostatically controlled heater</b> | <b>T[°C] ON</b> = 12 ± 4°C, <b>T[°C] OFF</b> = 20 ± 3°C |
| <b>Supply voltage</b>                     | 24VAC, 115VAC, 230VAC (+/-10%)                          |
| <b>Power consumption</b>                  | 120W MAX                                                |

#### VIDEO/CAMERA

|                        |                                                                                                                                                  |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Sensor</b>          | 1/1.8" Progressive CMOS                                                                                                                          |
| <b>Resolution</b>      | 4K resolution (3864x2180)                                                                                                                        |
| <b>Compression</b>     | H.265/H.264/MJPEG                                                                                                                                |
| <b>Streaming</b>       | Up to 4 configurable streams                                                                                                                     |
| <b>Frame Rate</b>      | H.265 HDR 4K @30fps + d1 @30fps, H.264 HDR 4K @30fps + d1 @30fps, MJPEG 1080p @30fps                                                             |
| <b>Sensitivity</b>     | Color: 0.04 lux, B/W: 0.002 lux                                                                                                                  |
| <b>Shutter Speed</b>   | 1~1/10000 sec.                                                                                                                                   |
| <b>Dynamic range</b>   | WDR/HDR                                                                                                                                          |
| <b>Lens</b>            | 22x Optical Zoom Auto Focus, 10x Digital, focal Length 6.4-138.5 mm                                                                              |
| <b>Image settings</b>  | Color, Brightness, Sharpness, Contrast, White Balance, Exposure Control, 2DNR, 3DNR, NR by Motion, Masking, Text Overlay                         |
| <b>Event Triggers</b>  | External Input, Analytics, Network Failure Detection, Periodical Event, Manual Trigger                                                           |
| <b>Event Actions</b>   | External Output Activation, Video and audio recording to edge storage, File Upload: FTP, network share and email, Notification: HTTP, FTP, email |
| <b>Local Storage</b>   | microSD (card not provided)                                                                                                                      |
| <b>Network Storage</b> | support for recording to NAS                                                                                                                     |

#### VIDEO/CAMERA (THERMAL)

Various combinations of QVGA/VGA thermal cameras and lenses are available, 9Hz or 25Hz.

#### NETWORK

|                  |                           |
|------------------|---------------------------|
| <b>Interface</b> | 10/100/1000 Mbps Ethernet |
|------------------|---------------------------|



#### Security ONVIF Protocols

User Authentication/ HTTPS/ IP Filter/ IEEE 802.1x  
ONVIF profile G/M/S/T compliant  
ARP, PPPoE, IPv4/v6, ICMP, IGMP, QoS, TCP, UDP, DHCP, UPnP, SNMP, SMTP, RTP, RTSP, HTTP, HTTPS, FTP, NTP

#### CERTIFICATIONS

|                                  |                                                                                                                                                                                                                                           |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ingress Protection Rating</b> | EN 60529 (IP66/IP67)<br>②II 2 G Ex db op pr IIC T6 Gb -40°C ≤ Tamb ≤ +60°C<br>②II 2 D Ex tb IIIC T85°C Db -40°C ≤ Tamb ≤ +60°C<br>②II 2 G Ex db op pr IIB T5 Gb -40°C ≤ Tamb ≤ +75°C<br>②II 2 D Ex tb IIIC T100°C Db -40°C ≤ Tamb ≤ +75°C |
| <b>ATEX/UKEX Standards</b>       | EN 60079-0; EN 60079-1; EN 60079-28; EN 60079-31                                                                                                                                                                                          |
| <b>IECEX Standards</b>           | IEC 60079-0; IEC 60079-1; IEC 60079-28; IEC 60079-31                                                                                                                                                                                      |
| <b>INMETRO</b>                   | ABNT NBR IEC 60079-0; ABNT NBR IEC 60079-1; ABNT NBR IEC 60079-28; ABNT NBR IEC 60079-31                                                                                                                                                  |
| <b>EMC</b>                       | EN 50130-4; EN 55035 ; EN/IEC 61000-6-2 ; EN/IEC 61000-6-4                                                                                                                                                                                |
| <b>LVD</b>                       | EN 60950-1; EN 60950-22                                                                                                                                                                                                                   |
| <b>RoHS</b>                      | 2011/65/EU + 2015/863/EU (RoHS 3)                                                                                                                                                                                                         |
| <b>WEEE</b>                      | 2012/19/EU                                                                                                                                                                                                                                |

#### MODELS

|                              |                                                                                              |
|------------------------------|----------------------------------------------------------------------------------------------|
| <b>EXPTZDUALTV4-CR/24</b>    | DUAL PTZ with day/night IP camera, housing for thermal camera, 24VAC                         |
| <b>EXPTZDUALTV4-CR/115</b>   | DUAL PTZ with day/night IP camera, housing for thermal camera, 115VAC                        |
| <b>EXPTZDUALTV4-CR/230</b>   | DUAL PTZ with day/night IP camera, housing for thermal camera, 230VAC                        |
| <b>EXPTZDUALTV4FO-CR/24</b>  | DUAL PTZ with day/night IP camera, housing for thermal camera, SM FO Media Converter, 24VAC  |
| <b>EXPTZDUALTV4FO-CR/115</b> | DUAL PTZ with day/night IP camera, housing for thermal camera, SM FO Media Converter, 115VAC |
| <b>EXPTZDUALTV4FO-CR/230</b> | DUAL PTZ with day/night IP camera, housing for thermal camera, SM FO Media Converter, 230VAC |

All the above PTZ camera stations include sunshield and heater, a wiper on the day/night camera housing, a built-in telemetry receiver, variable speed motors, fixed cable entry 1x M25x1,5 on a base mount junction box. The above models are equipped with a protective front grid on the Germanium window. Gridless versions are available upon request.

#### PRE-ASSEMBLED CONDUIT/CABLE TAILS

|                    |                                                                                                                                                           |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>EXACCTF3-B</b>  | 3 meters armoured composite cable tail (power, Ethernet, data) with 2x M25 barrier nickel plated brass glands. For PTZ camera.                            |
| <b>EXACCTF3-D</b>  | 3 meters armoured composite cable tail (power, data, fiber optic) with 2x M25 barrier nickel plated brass glands. Fiber termination: SC. For PTZ camera.  |
| <b>EXACCTF5-B</b>  | 5 meters armoured composite cable tail (power, Ethernet, data) with 2x M25 barrier nickel plated brass glands. For PTZ camera.                            |
| <b>EXACCTF5-D</b>  | 5 meters armoured composite cable tail (power, data, fiber optic) with 2x M25 barrier nickel plated brass glands. Fiber termination: SC. For PTZ camera.  |
| <b>EXACCTF10-B</b> | 10 meters armoured composite cable tail (power, Ethernet, data) with 2x M25 barrier nickel plated brass glands. For PTZ camera.                           |
| <b>EXACCTF10-D</b> | 10 meters armoured composite cable tail (power, data, fiber optic) with 2x M25 barrier nickel plated brass glands. Fiber termination: SC. For PTZ camera. |

#### ACCESSORIES

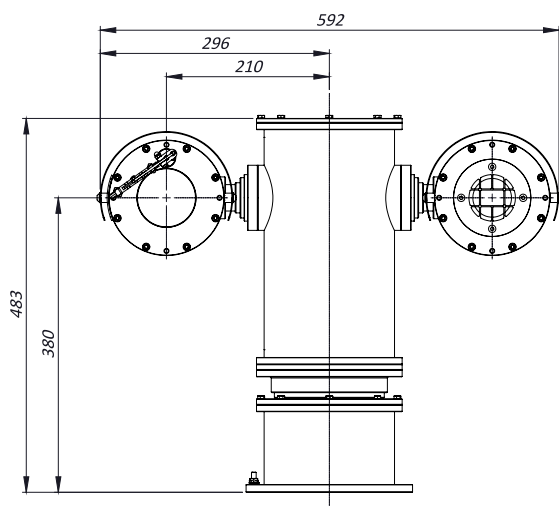
|               |                       |
|---------------|-----------------------|
| <b>SSBK-L</b> | Wall mounting bracket |
|---------------|-----------------------|

[www.tecnovideoocctv.com](http://www.tecnovideoocctv.com)

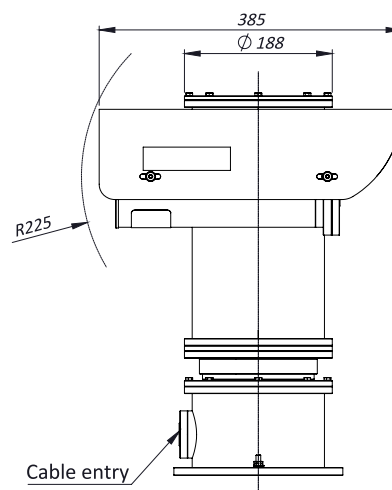
Tecnovideo S.r.l. - Via A. De Gasperi, 3 36030 Villaverla (VI) ITALY - Tel. +39.0445.350444 - [info@tecnovideoocctv.com](mailto:info@tecnovideoocctv.com)

## DIMENSIONS

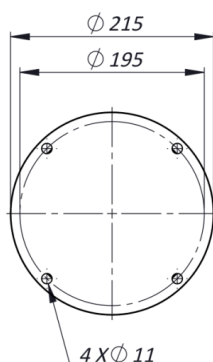
FRONT VIEW



SIDE VIEW



MOUNTING PATTERN



MAX EXTERNAL LENGTH

| Model           | L1 [mm] | Height | L2 [mm] | Width |
|-----------------|---------|--------|---------|-------|
| EXPTZDUALTV4-CR | 483     |        | 592     |       |

MAX INTERNAL AVAILABLE DIMENSIONS

| Model                                | Max internal dimensions [mm] | Max usable internal diameter [mm] |
|--------------------------------------|------------------------------|-----------------------------------|
| EXPTZDUALTV4-CR<br>(thermal housing) | 80x80x160                    | 95                                |

*The unit cannot be installed upside-down nor horizontally*