TRIAX Surveillance Solutions
Safety and Security of People and Assets

triax.com/surveillance
TRIAX® surveillance solutions
– help protect the safety and security of people and assets.

Image quality is one of the most important factors when installing a CCTV system.

Our CCTV cameras provide sharp and detailed HD video footage (up to Full HD 1080p). As well as monitoring activity, they can also be used as a visual deterrent where appropriate. Cameras are available with fixed or varifocal lenses in dome or bullet housings.

Advanced Functionality
Activity is recorded by connecting CCTV cameras with a Digital Recorder installed with a HDD for playback on a monitor or TV. They can be set for continuous or scheduled recording, motion detection or triggered alarm using the intuitive menus – the same menus are used across the TRIAX range enabling logical on-going installations. Our Digital Recorders are available with 4, 8 or 16 channels, allowing up to 16 cameras be connected to a system.

TRIAX App - Monitor Anywhere, Anytime
As well as a great range of HD cameras suitable for every budget, when connected to one of our Digital Recorders, all our cameras can be accessed remotely via the dedicated TRIAX App (TRIAX Mobile HD) on iOS or Android enabled devices. Using network connectivity, the App offers a quick and easy way for your clients to monitor their CCTV system anywhere, anytime. Set up is simple using QR codes and the latest P2P technology meaning complicated port forwarding is not required.

Where to Use...

- Residential
- Pubs, Clubs + Restaurants
- Small hotels B+B’s
- Farming
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<td>TBV 4IP</td>
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<td>Glossary</td>
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Technology
Our range uses the latest technology to provide HD CCTV footage for a wide range of installations and budgets.

**HD-TVI**
- **High Image Quality** - HD-TVI delivers reliable high definition surveillance (up to 1080p Full HD) without video quality loss.
- **Lower Cost** - Employs the same installation method, cable and connectors as traditional analogue CCTV.
- **No Latency** - Monitor live video without time lags.
- **Longer Transmission** - Transmit HD video up to 500m (150m locally powered) over RG59 cabling making it the ideal HD format for long distance cable runs.
- **Analogue + IP Compatible** - HD-TVI recorders are capable of recording video from analogue and IP cameras meaning systems can be upgraded as required.
- **Composite Video Output** – That can be modulated onto the local TV system.

**IP (internet protocol)**
- **Superior image quality** - HD and higher megapixel IP cameras deliver superior image quality. The clearer the image, the easier it is to identify faces, objects and other details filmed by the camera.
- **Flexible** - Just a single network cable is required. TRIAX IP cameras can operate over the network using Power over Ethernet (PoE). The NVR or power supply, power the cameras over the CAT infrastructure.
- **Auto Detect** – TRIAX range of IP cameras automatically connect to our NVR’s eliminating complex network settings.
- **Advanced Functionality** – Our NVR’s feature advanced benefits such as face and perimeter detection.
Selection of the best

HD - TVI

- **Fixed / Varifocal Dome**
  720p and 1080p HD video with a 2.8mm or 3.6mm fixed lens or 2.8mm-12mm varifocal lens. White or grey housings.

- **Fixed / Varifocal Bullet**
  720p and 1080p HD video with a 2.8mm or 3.6mm fixed lens or 2.8mm-12mm varifocal lens. White or grey housings.

- **DVR**
  Digital Video Recorder capable of recording video from analogue, HD-TVI and IP cameras.

IP

- **Fixed / Varifocal Dome**
  2MP and 4MP cameras featuring PoE. White housings.

- **Fixed / Varifocal Bullet**
  2MP and 4MP cameras featuring PoE. White housings.

- **NVR**
  Network Video Recorder for recording high quality IP camera footage with advanced features.
How do CCTV technologies compare?

We’re often asked how different technologies within the CCTV sector compare?

Our team have chosen both HD-TVI and IP solutions for broadcast quality images suitable for a wide range of installations and budgets. We feel these technologies offer you and your clients the best solutions currently available.

HD-TVI offers the best overall performance and most flexibility with detailed HD images, greater transmission distances, hybrid capabilities and is easily configured. HD-TVI DVR’s are also unique as they are compatible with all existing analogue and HD-TVI cameras, while supporting IP cameras up to 2MP on any channel in any configuration.

<table>
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<tr>
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<th>HD-TVI</th>
<th>Analogue</th>
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<tr>
<td>Resolution (TX5912)</td>
<td>720P / 1080P</td>
<td>960H (700TVL)</td>
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<td>Coax Siamese Cable (TX5912)</td>
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<tr>
<td>Cat5.e Cabling</td>
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<td>100m</td>
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<tr>
<td>PTZ Functionality</td>
<td>Support over Coax</td>
<td>Extra Cabling (Twisted Pair)</td>
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<td>720P Frame Rate</td>
<td>25 fps</td>
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<td>1080P Frame Rate</td>
<td>15 fps</td>
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<tr>
<td>DVR Recording</td>
<td>Combination of 720P and 1080P</td>
<td>CIF / D1 / WD1</td>
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<td>HD-TVI</td>
<td>HD-CVI</td>
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<tr>
<td>Coax Siamese Cable (TX5912)</td>
<td>300m</td>
<td>300m</td>
</tr>
<tr>
<td></td>
<td>Please note* 150m when powered remotely, 300m locally powered</td>
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</tr>
<tr>
<td>Cat5.e Cabling</td>
<td>200 meters</td>
<td>100 meters</td>
</tr>
<tr>
<td>720P Frame Rate</td>
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<td>25</td>
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<tr>
<td>1080P Frame Rate</td>
<td>15</td>
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</tr>
<tr>
<td>DVR combination using both 720P and 1080P Camera</td>
<td>YES</td>
<td>NO</td>
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</table>

|                         | HD-TVI          | HD-SDI          |
| Resolution (TX5912)     | 720P / 1080P    | 720P / 1080P    |
| Coax Siamese Cable (TX5912) | 300m       | 150m            |
| PTZ Functionality       | Support over Coax | Extra Cabling (Twisted Pair) |
| Cat5.e Cabling          | Support 200m    | Do not Support  |

|                         | HD-TVI          | IP              |
| Coax Siamese Cable (TX5912) | 300m       | Not Compatible  |
| Cat5.e Cabling          | 200m            | 100m            |
| 720P Frame Rate         | 25              | 25              |
| 1080P Frame Rate        | 15              | 25              |
| DVR combination using both 720P and 1080P Camera | YES | YES |
| Image Delay             | No Delay        | Delay           |

*Please note* 150m when powered remotely, 300m locally powered
TRIAX TVI Fixed Dome Camera
720p TVI Camera 1.3 MP 2.8mm

Features and Benefits
- 1/4 Inch CMOS progressive scan sensor 720p
- Supports TVI high definition transfer
- 720p @ 25/30 FPS TVI output
- Long Distance, No delay
- Single DC 12V supply, suitable for various applications
- TRIAX P2P mobile App
- TDF 720-28 White Housing
  TDF 720-28G Grey Housing

Technical specification

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<td>D/N</td>
<td>ICR</td>
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<td>Lens</td>
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<td>Video Out</td>
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<td>SNR</td>
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<tr>
<td>DR</td>
<td>66.2 dB</td>
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<td>Digital Noise Reduction</td>
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TRIAX TVI Fixed Dome Camera
720p TVI Camera 1.3 MP 3.6mm

Features and Benefits

- 1/4 Inch CMOS progressive scan sensor 720p
- Supports TVI high definition transfer
- 720p @ 25/30 FPS TVI output
- Long Distance, No delay
- Single DC 12V supply, suitable for various applications
- TRIAX P2P mobile App
- TDF 720 White Housing
  TDF 720G Grey Housing

Technical specification

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TRIAX TVI Varifocal Dome Camera
720p TVI Camera 1.3 MP 2.8-12mm

Features and Benefits
- 1/4 Inch CMOS progressive scan sensor 720p
- Supports TVI high definition transfer
- 720p @ 25/30 FPS TVI output
- Long Distance, No delay
- Single DC 12V supply, suitable for various applications
- TRIAX P2P mobile App
- TDV 720 White Housing
- TDV 720G Grey Housing

Technical specification

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<td>Video Standard</td>
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TRIAX TVI Fixed Bullet Camera
720p TVI Camera 1.3 MP 2.8mm

Features and Benefits
- 1/4 Inch CMOS progressive scan sensor 720p
- Supports TVI high definition transfer
- 720p @ 25/30 FPS TVI output
- Long Distance, No delay
- Single DC 12V supply, suitable for various applications
- TRIAX P2P mobile App
- TBV 720-28 White Housing
  TBV 720-28G Grey Housing

Technical specification

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<td>Resolution</td>
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<tr>
<td>Min. illumination</td>
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<tr>
<td>Number of IR Leds</td>
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<tr>
<td>IR Distance</td>
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<td>ICR</td>
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<tr>
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<tr>
<td>Storage temperature</td>
<td>-20°C to +60°C, RH 90% Max</td>
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TRIAX TVI Fixed Bullet Camera
720p TVI Camera 1.3 MP 3.6mm

Features and Benefits
- 1/4 Inch CMOS progressive scan sensor 720p
- Supports TVI high definition transfer
- 720p @ 25/30 FPS TVI output
- Long Distance, No delay
- Single DC 12V supply, suitable for various applications
- TRIAX P2P mobile App
- TBF 720 White Housing
  TBF 720G Grey Housing

Technical specification

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TRIAX TVI Varifocal Bullet Camera
720p TVI Camera 1.3 MP 2.8-12mm

Features and Benefits
- 1/4 Inch CMOS progressive scan sensor 720p
- Supports TVI high definition transfer
- 720p @ 25/30 FPS TVI output
- Long Distance, No delay
- Single DC 12V supply, suitable for various applications
- TRIAX P2P mobile App
- TBV 720 White Housing
  TBV 720G Grey Housing

Technical specification

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<td>Storage temperature</td>
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TRIAX TVI Fixed Dome Camera
1080p TVI Camera 2.0 MP 3.6mm

Features and Benefits
- 1/3 Inch Sony CMOS progressive scan sensor 1080p
- Supports TVI high definition transfer
- 1080p @ 25/30 FPS TVI output
- Long Distance, No delay
- Single DC 12V supply, suitable for various applications
- TRIAX P2P mobile App
- TDF 1080 White Housing
  TDF 1080G Grey Housing

Technical specification

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<td><strong>SNR</strong></td>
<td>39.1 dB</td>
<td></td>
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<td><strong>White Balance</strong></td>
<td>AWB</td>
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<tr>
<td><strong>DR</strong></td>
<td>66.2 dB</td>
<td></td>
</tr>
<tr>
<td><strong>Advanced Function</strong></td>
<td>2D DNR</td>
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<tr>
<td><strong>Power supply</strong></td>
<td>12 VDC ±/−15%</td>
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<tr>
<td><strong>Working Environment</strong></td>
<td>-10°C ~ +60°C, Humidity 95%</td>
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<td><strong>Storage temperature</strong></td>
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* Switch between HD-TVI and CVBS mode, push the OSD button "UP" and hold for 5 seconds.
TRIAX TVI Varifocal Dome Camera
1080p TVI Camera 2.0 MP 2.8-12mm

Features and Benefits

- 1/3 Inch Sony CMOS progressive scan sensor 1080p
- Supports TVI high definition transfer
- 1080p @ 25/30 FPS TVI output
- Long Distance, No delay
- Single DC 12V supply, suitable for various applications
- TRIAX P2P mobile App
- TDV 1080 White Housing
  TDV 1080G Grey Housing

Technical specification

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<td>Advanced Function</td>
<td>2D DNR</td>
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<td>Power supply</td>
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<td>Working Environment</td>
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* Switch between HD-TVI and CVBS mode, push the OSD button “UP” and hold for 5 seconds.
TRIAX TVI Fixed Bullet Camera
1080p TVI Camera 2.0 MP 3.6mm

Features and Benefits
- 1/3 Inch Sony CMOS progressive scan sensor 1080p
- Supports TVI high definition transfer
- 1080p @ 25/30 FPS TVI output
- Long Distance, No delay
- Single DC 12V supply, suitable for various applications
- TRIAX P2P mobile App
- TBF 1080 White Housing
  - TBF 1080G Grey Housing

Technical specification

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<td>SNR</td>
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<td>66.2 dB</td>
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* Switch between HD-TVI and CVBS mode, push the OSD button “UP” and hold for 5 seconds.
TRIAX TVI Varifocal Bullet Camera
1080p TVI Camera 2.0 MP 2.8-12mm

Features and Benefits
- 1/3 Inch Sony CMOS progressive scan sensor 1080p
- Supports TVI high definition transfer
- 1080p @ 25/30 FPS TVI output
- Long Distance, No delay
- Single DC 12V supply, suitable for various applications
- TRIAX P2P mobile App
- TBV 1080 White Housing
- TBV 1080G Grey Housing

Technical specification

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* Switch between HD-TVI and CVBS mode, push the OSD button “UP” and hold for 5 seconds.
Notes
- for your personal notes
TRIAX THDR Digital Video Recorder
4, 8 or 16 Channel HD-TVI

Features and Benefits
- Compact tribrid Analogue, TVI, IP DVR
- H.264 720p real-time recording
- TRIAX P2P mobile App
- Support Coaxitron 500m control
- 1080p 15 fps recording
- TRIAX common menu structure
- Coax or CAT5e cabling supported
- Live view, Motion detection and Alarm activation
- Pre-installed HDD for convenience

Technical specification

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<td>Pentaplex Function</td>
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<tr>
<td>Control Mode</td>
<td>Front panel, USB mouse, IR remote control, network</td>
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</table>

**Video**
- CVBS / TVI Input (1080p)
  - 4Ch BNC (1.0Vp-p, 75 Ω)
  - 8Ch BNC (1.0Vp-p, 75 Ω)
  - 16Ch BNC (1.0Vp-p, 75 Ω)
- TVI Coaxitron control
  - Support
  - Support
  - Support
- Video CVBS output
  - 1 x CVBS, BNC (1.0Vp-p, 75 Ω)
- Video HDMI output
  - 1 x HDMI 1920 x 1080p Resolution
- Video VGA output
  - 1 x VGA, 1920 x 1080, 1280 x 1024, 1366 x 768, 1024 x 768 Resolution

**Audio**
- Input
  - 1CH, RCA (Line in 2Vpp @1kΩ)
- Output
  - 1 x RCA (Line in 2Vpp @300Ω)
- Two-way
  - 1st. Channel reuse

**Display**
- Resolution
  - 1080p(25fps), 720p (25fps), 960H
- Tour Display
  - Support
- Privacy Masking
  - For zone for privacy masking for each channel

**Recording**
- Video Compression
  - H.264 Main Profile @ level 4.1
  - H.264 Main Profile @ level 5.0
  - H.264 HP4
- Analogue TVI Video input
  - 4Ch
  - 8Ch
  - 16Ch
- IP Input
  - Yes
  - Yes
  - Yes
- Audio Compression
  - G.711A
  - G.711A
  - G.711A
- Image Encoding
  - Adjustable encoding quality, variable code stream / fixed code stream
- Dual Stream
  - Support
- Max. Compression
  - 4Ch, 1080p @15fps / 720p @25fps
  - 8Ch, 1080p @15fps / 720p @25fps
  - 16Ch, 1080p @15fps / 720p @25fps
- Recording Mode
  - Manual, auto, motion detection, stop

Download the mobile surveillance app

triax.com/surveillance
### Technical specification - continued

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<th>THDR 4</th>
<th>THDR 8</th>
<th>THDR 16</th>
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<td>Trigger Events</td>
<td>Recording, PTZ, Tour, Email</td>
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<td>Motion Detection</td>
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<td>Alarm Input</td>
<td>4Ch</td>
<td>8Ch</td>
<td>16Ch</td>
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<tr>
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<td>4Ch</td>
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<td>1 x RJ45 socket (10m/100m/1000m)</td>
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<td>Network Functions</td>
<td>DHCP, PPOE, DDNS, SMTP, SNTP, FTP, UPnP, P2P</td>
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<td>Remote Operations</td>
<td>Monitoring, PTZ control, playback, system setting, file download, log information</td>
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<td>Smart Phone</td>
<td>iPhone, iPad, Android</td>
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<td>SATA</td>
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<td>Capacity</td>
<td>1TB installed (6TB max)</td>
<td>2TB installed (6TB max per SATA)</td>
<td>4TB installed (6TB max per SATA)</td>
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<td>HDD Management</td>
<td>Hard disk hibernation technology, HDD faulty alarm</td>
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<td>CVBS / TVI Input (1080p)</td>
<td>4Ch BNC (1.0Vp-p, 75Ω)</td>
<td>8Ch BNC (1.0Vp-p, 75Ω)</td>
<td>16Ch BNC (1.0Vp-p, 75Ω)</td>
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<td><strong>External Interface</strong></td>
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<td><strong>Environment</strong></td>
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<td>Power Supply</td>
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<td>12 VDC 4A</td>
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<td>Consumption</td>
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<td>10W (without HDD)</td>
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<tr>
<td>Working Humidity</td>
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<td>Dimensions (mm)</td>
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<td>2.0 (without HDD)</td>
<td>2.0 (without HDD)</td>
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<td>5702663010901</td>
<td>5702663010918</td>
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TRIAX IP Fixed Turret Camera
2.0 MP and 4.0 MP

Features and Benefits

**TTF 2IP**
- 1/2.8" 2.0 Mega progressive scan
- H.264 960p Real time recording
- 2D/3D DNR, DWDR, Anti-fog
- Long Distance, No delay
- Support PoE, Support reset Button IR Array
- Support ONVIF
- Support intrusion detection
- Dual-Stream
- IP66
- TRIAX P2P mobile App

**TTF 4IP**
- 1/3" 4.0 Mega progressive scan CMOS
- H.264 H.265 4.0 Mega Real time recording
- 2D/3D DNR, DWDR, Anti-fog
- Long Distance, No delay
- Support PoE, Support reset Button IR Array
- Support ONVIF
- Support intrusion detection
- Triple-Stream
- IP66
- TRIAX P2P mobile App

### Technical specification

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<thead>
<tr>
<th>Type</th>
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<tr>
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<td>301095</td>
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<tr>
<td>Sensor</td>
<td>1/2.8&quot; 2.0 Mega progressive scan CMOS</td>
<td>1/3&quot; 4.0 Mega progressive scan CMOS</td>
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<tr>
<td>Lens</td>
<td>3.6mm M12 lens</td>
<td>3.6mm M12 lens</td>
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<tr>
<td>IR distance</td>
<td>1PC IR Array, 30m</td>
<td>1PC IR Array, 30m</td>
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<tr>
<td>Electronic shutter</td>
<td>Auto (1/10s ~ 1/10000s Adjustable)</td>
<td>Auto (1/10s ~ 1/10000s Adjustable)</td>
</tr>
<tr>
<td>Day/Night</td>
<td>Auto/Colour/B&amp;W (IR_CUT)</td>
<td>Auto/Colour/B&amp;W (IR_CUT)</td>
</tr>
<tr>
<td>Noise Reduction</td>
<td>2D/3D Digital Noise Reduction</td>
<td>2D/3D Digital Noise Reduction</td>
</tr>
<tr>
<td>WDR</td>
<td>Digital WDR</td>
<td>Digital WDR, Real WDR</td>
</tr>
<tr>
<td>Image Adjustment</td>
<td>Sharpness, Brightness, Saturation, Contrast Adjustable</td>
<td>Sharpness, Brightness, Saturation, Contrast Adjustable</td>
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<tr>
<td>Video Encoding</td>
<td>H.264</td>
<td>H.264, H.265</td>
</tr>
<tr>
<td>Encoding Type</td>
<td>High Profile/Main Profile/BaseLine Profile</td>
<td>H.264 High Profile/Main Profile/ BaseLine Profile - H.265 High Profile</td>
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<tr>
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<td>Main Stream : 1920*1080@25/30fps</td>
<td>Main Stream: 2560<em>1440@20 Sub Stream: 704</em>576@20</td>
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<td>Sub Stream : 704*576@25/30fps</td>
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<td>Video Bitrate Control</td>
<td>Support VBR/CBR</td>
<td>Support VBR/CBR</td>
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<tr>
<td>Video Bitrate Range</td>
<td>192Kbps ~ 12Mbps</td>
<td>32Kbps ~ 8Mbps</td>
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<tr>
<td>Reset Button</td>
<td>Front set reset button</td>
<td></td>
</tr>
<tr>
<td>Network Interface</td>
<td>RJ45 10M/100M adaptive Ethernet interface</td>
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<tr>
<td>Motion Detection</td>
<td>Multiple detection zones, variable sensitivity levels</td>
<td></td>
</tr>
<tr>
<td>Privacy Masking</td>
<td>Four zones for privacy masking</td>
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<tr>
<td>Snapshot</td>
<td>JPEG capture, capture resolution is the max coding resolution</td>
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</tr>
<tr>
<td>Security Features</td>
<td>Support password protection, watermarking features</td>
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<tr>
<td>Text Overlay</td>
<td>Support (Channel name and time title)</td>
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<tr>
<td>Alarm</td>
<td>Support network anomaly, mask alarm and etc.</td>
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<tr>
<td>Intelligent Function</td>
<td>Support line-crossing detection</td>
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<td>Mobile APP</td>
<td>IOS, Android</td>
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<tr>
<td>Network Function</td>
<td>TCP/IP, UDP, HTTP, IGMP, ICMP, DHCP, RTP/RTSP, DNS, DDNS, FTP, NTP, PPPoE, UPNP, SMTP, SNMP</td>
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<tr>
<td>Protocol</td>
<td>Support ONVIF and CGI protocol</td>
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<td>Protection Grade</td>
<td>IP66</td>
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</tr>
<tr>
<td>PoE</td>
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<tr>
<td>Power</td>
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<tr>
<td>Operation Temperature</td>
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<tr>
<td>Operation humidity</td>
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<td>122 x 93 (mm)</td>
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TRIAX IP Varifocal Dome Camera
2.0 MP and 4.0 MP

Features and Benefits

**TDV 2IP**
- 1/2.8" 2.0 Mega progressive scan
- H.264 1080p Real time recording
- 2D/3D DNR, DWDR, Anti-fog
- Support PoE, Support reset Button
- Support ONVIF
- Support intrusion detection
- Dual-Stream
- IP66
- TRIAX P2P mobile App

**TDV 4IP**
- 1/3" 4.0 Mega progressive scan CMOS
- H.264 H.265 4.0 Mega Real time recording
- 2D/3D DNR, DWDR, Anti-fog, IR Cut, ROI
- Support PoE, Support reset button, IR Array, TF Card
- Support ONVIF
- Support intrusion detection
- Triple-Stream
- IP66
- TRIAX P2P mobile App

### Technical specification

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<td>Sensor</td>
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<td>1/3&quot; 4.0 Mega progressive scan CMOS</td>
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<td>Lens</td>
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<td>3.3~10.5mm varifocal lens</td>
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<td>IR distance</td>
<td>30 PCs, 30m</td>
<td>30 PCs, 30m</td>
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<tr>
<td>Electronic shutter</td>
<td>Auto (1/10s ~ 1/10000s Adjustable)</td>
<td>Auto (1/10s ~ 1/10000s Adjustable)</td>
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<tr>
<td>Day/Night</td>
<td>Auto/Colour/B&amp;W (IR_CUT)</td>
<td>Auto/Colour/B&amp;W (IR_CUT)</td>
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<td>Noise Reduction</td>
<td>2D/3D Digital Noise Reduction</td>
<td>2D/3D Digital Noise Reduction</td>
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<tr>
<td>WDR</td>
<td>Digital WDR</td>
<td>Digital WDR</td>
</tr>
<tr>
<td>Image Adjustment</td>
<td>Sharpness, Brightness, Saturation, Contrast Adjustable</td>
<td>Sharpness, Brightness, Saturation, Contrast Adjustable</td>
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<tr>
<td>Video Encoding</td>
<td>H.264</td>
<td>H.264, H.265</td>
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<tr>
<td>Encoding Type</td>
<td>High Profile/Main Profile/ BaseLine Profile</td>
<td>H.264 High Profile/Main Profile/ BaseLine Profile - H.265 High Profile</td>
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<tr>
<td>Record Resolution</td>
<td>1920<em>1080, 1280</em>960, 1280<em>720, 704</em>576, 352*288@25/30fps</td>
<td>Main Stream: 2560<em>1440@20 Sub Stream: 704</em>576@20</td>
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<tr>
<td>Video Bitrate Control</td>
<td>Support VBR/CBR</td>
<td>Support VBR/CBR</td>
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<tr>
<td>Video Bitrate Range</td>
<td>192Kbps ~ 8Mbps</td>
<td>32Kbps ~ 8Mbps</td>
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<tr>
<td>Reset Button</td>
<td>Front set reset button</td>
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<tr>
<td>Network Interface</td>
<td>RJ45 10M/100M adaptive Ethernet interface</td>
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<tr>
<td>Motion Detection</td>
<td>Multiple detection zones, variable sensitivity levels</td>
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<tr>
<td>Privacy Masking</td>
<td>Four zones for privacy masking</td>
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<tr>
<td>Snapshot</td>
<td>JPEG capture, capture resolution is the max coding resolution</td>
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<td>Security Features</td>
<td>Support password protection, watermarking features</td>
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<td>Text Overlay</td>
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<td>Intelligent Function</td>
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<td>Mobile APP</td>
<td>iOS, Android</td>
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TRIAX IP Fixed Bullet Camera
2.0 MP and 4.0 MP

Features and Benefits

**TBF 2IP**
- 1/2.8” 2.0 Mega progressive scan CMOS
- H.264 1080p Real time recording
- 2D/3D DNR, DWDR, Anti-fog
- Long Distance, No delay
- Support PoE
- Support reset Button IR Array
- Support ONVIF
- Support intrusion detection
- Dual-Stream
- IP66
- TRIAX P2P mobile App

**TBF 4IP**
- 1/3” 4.0 Mega progressive scan CMOS
- H.264 H.265 4.0 Mega Real time recording
- 2D/3D DNR, DWDR, Anti-fog
- Long Distance, No delay
- Support PoE
- Support reset Button IR Array
- Support ONVIF
- Support intrusion detection
- Dual-Stream
- IP66
- TRIAX P2P mobile App

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<td>Colour: 0.05 Lux / F1.2; 0 Lux / F1.2 (IR ON)</td>
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<tr>
<td>Lens</td>
<td>3.6mm M12 lens</td>
<td>3.6mm M12 lens</td>
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<td>IR distance</td>
<td>30PCs, 30m</td>
<td>30PCs, 30m</td>
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<tr>
<td>Electronic shutter</td>
<td>Auto (1/10s – 1/10000s Adjustable)</td>
<td>Auto (1/10s – 1/10000s Adjustable)</td>
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<tr>
<td>Day/Night</td>
<td>Auto/Colour/B&amp;W (IR CUT)</td>
<td>Auto/Colour/B&amp;W (IR CUT)</td>
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<td>Sharpness, Brightness, Saturation, Contrast Adjustable</td>
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<td>H.264 High Profile/Main Profile/BaseLine Profile - H.265 High Profile</td>
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<td>Record Resolution</td>
<td>Main Stream: 1920<em>1080, 1280</em>960, 1280<em>720, 704</em>576, 352*288@25/30fps</td>
<td>Main Stream: 2560<em>1440@20fps; Sub Stream 704</em>576@20fps, Third Stream 1280*720@15fps</td>
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<tr>
<td>Video Bitrate Control</td>
<td>Support VBR/CBR</td>
<td>Support VBR/CBR</td>
</tr>
<tr>
<td>Video Bitrate Range</td>
<td>32kbps ~ 12Mbps</td>
<td>32kbps ~ 8Mbps</td>
</tr>
<tr>
<td>Reset Button</td>
<td>Front set reset button</td>
<td>Front set reset button</td>
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<tr>
<td>Network Interface</td>
<td>RJ45 10M/100M adaptive Ethernet interface</td>
<td>RJ45 10M/100M adaptive Ethernet interface</td>
</tr>
<tr>
<td>Motion Detection</td>
<td>Multiple detection zones, variable sensitivity levels</td>
<td>Multiple detection zones, variable sensitivity levels</td>
</tr>
<tr>
<td>Privacy Masking</td>
<td>Four zones for privacy masking</td>
<td>Four zones for privacy masking</td>
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<tr>
<td>Security Features</td>
<td>JPEG capture, capture resolution is the max coding resolution</td>
<td>JPEG capture, capture resolution is the max coding resolution</td>
</tr>
<tr>
<td>Text Overlay</td>
<td>Support password protection, watermarking features</td>
<td>Support password protection, watermarking features</td>
</tr>
<tr>
<td>Alarm</td>
<td>Support (Channel name and time title)</td>
<td>Support (Channel name and time title)</td>
</tr>
<tr>
<td>Intelligent Function</td>
<td>Support network anomaly, mask alarm and etc.</td>
<td>Support network anomaly, mask alarm and etc.</td>
</tr>
<tr>
<td>Mobile APP</td>
<td>IOS, Android</td>
<td>IOS, Android</td>
</tr>
<tr>
<td>Network Function</td>
<td>TCP/IP, UDR, HTTP, IGMP, ICMP, DHCP, RTP, RTSP</td>
<td>TCP/IP, UDR, HTTP, IGMP, ICMP, DHCP, RTP, RTSP</td>
</tr>
<tr>
<td>Protocol</td>
<td>Support ONVIF and CGI protocol</td>
<td>Support ONVIF and CGI protocol</td>
</tr>
<tr>
<td>Protection Grade</td>
<td>IP66</td>
<td>IP66</td>
</tr>
<tr>
<td>PoE</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Power</td>
<td>DC 12V</td>
<td>DC 12V</td>
</tr>
<tr>
<td>Operation Temperature</td>
<td>-10°C ~ +60°C</td>
<td>-10°C ~ +60°C</td>
</tr>
<tr>
<td>Operation humidity</td>
<td>10 ~ 90%</td>
<td>10 ~ 90%</td>
</tr>
<tr>
<td>Power supply</td>
<td>5.5W max</td>
<td>5.5W max</td>
</tr>
<tr>
<td>Size</td>
<td>69 x 69 x 155 (mm)</td>
<td>69 x 69 x 155 (mm)</td>
</tr>
<tr>
<td>Weight (Kg)</td>
<td>0.530</td>
<td>0.390</td>
</tr>
<tr>
<td>EAN</td>
<td>5702663010925</td>
<td>5702663010932</td>
</tr>
</tbody>
</table>
## TRIAX IP Varifocal Bullet Camera

### 2.0 MP and 4.0 MP

#### Features and Benefits

**TBV 2IP**
- 1/2.8” 2.0 Mega progressive scan CMOS
- H.264, H.265 1080p Real time recording
- 2D/3D, DNR, DWDR, Anti-fog
- Support PoE
- Support reset Button IR Array, TF Card
- Support ONVIF
- Support intrusion detection
- Triple-Stream
- IP66
- TRIAX P2P mobile App

**TBV 4IP**
- 1/3” 4.0 Mega progressive scan CMOS
- H.264, H.265 4.0 Mega Real time recording
- 2D/3D, DNR, DWDR, Anti-fog, ROI
- Long Distance, No delay
- Support PoE
- Support reset Button IR Array, TF Card
- Support ONVIF
- Support intrusion detection
- Triple-Stream
- IP66
- TRIAX P2P mobile App

#### Technical specification

<table>
<thead>
<tr>
<th>Type</th>
<th>TBV 2IP - White</th>
<th>TBV 4IP - White</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art. No.</td>
<td>301096</td>
<td>301097</td>
</tr>
<tr>
<td>Sensor</td>
<td>1/2.8” 2.0 Mega progressive scan CMOS</td>
<td>1/3” 4.0 Mega progressive scan CMOS</td>
</tr>
<tr>
<td>Min. Illumination</td>
<td>Colour: 0.01 Lux/ F1.2; 0 Lux / F1.2 (IR ON)</td>
<td>Colour: 0.01 Lux/ F1.2; 0 Lux / F1.2 (IR ON)</td>
</tr>
<tr>
<td>Lens</td>
<td>2.8~12mm varifocal lens</td>
<td>3.3~10.5mm varifocal lens</td>
</tr>
<tr>
<td>IR distance</td>
<td>6PCs, 50m</td>
<td>6PCs, 50m</td>
</tr>
<tr>
<td>Electronic shutter</td>
<td>Auto (1-25s ~ 1/10000s Adjustable)</td>
<td>Auto (1-25s ~ 1/10000s Adjustable)</td>
</tr>
<tr>
<td>Day/Night</td>
<td>Auto/Colour/B&amp;W (IR CUT)</td>
<td>Auto/Colour/B&amp;W (IR CUT)</td>
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<tr>
<td>Noise Reduction</td>
<td>2D/3D Digital Noise Reduction</td>
<td>2D/3D Digital Noise Reduction</td>
</tr>
<tr>
<td>WDR</td>
<td>Digital WDR</td>
<td>Digital WDR</td>
</tr>
<tr>
<td>Image Adjustment</td>
<td>Sharpness, Brightness, Saturation, Contrast Adjustable</td>
<td>Sharpness, Brightness, Saturation, Contrast Adjustable</td>
</tr>
<tr>
<td>Video Encoding</td>
<td>H.264, H.265</td>
<td>H.264, H.265</td>
</tr>
<tr>
<td>Encoding Type</td>
<td>H.264 High Profile/Main Profile/ Baseline Profile - H.265 High Profile</td>
<td>H.264 High Profile/Main Profile/ Baseline Profile - H.265 High Profile</td>
</tr>
<tr>
<td>Record Resolution</td>
<td>Main Stream: 1280*720@25fps</td>
<td>Main Stream: 2560<em>1440@25fps, Sub Stream 704</em>576@20fps, Third Stream 1280*720@15fps</td>
</tr>
<tr>
<td>Video Bitrate Control</td>
<td>Support VBR/CBR</td>
<td>Support VBR/CBR</td>
</tr>
<tr>
<td>Video Bitrate Range</td>
<td>32Kbps ~ 8Mbps</td>
<td>32Kbps ~ 8Mbps</td>
</tr>
<tr>
<td>Reset Button</td>
<td>Built-in reset button</td>
<td>Built-in reset button</td>
</tr>
<tr>
<td>Network Interface</td>
<td>RJ45 10M/100M adaptive Ethernet interface</td>
<td></td>
</tr>
<tr>
<td>Motion Detection</td>
<td>Multiple detection zones, variable sensitivity levels</td>
<td></td>
</tr>
<tr>
<td>Privacy Masking</td>
<td>Four zones for privacy masking</td>
<td></td>
</tr>
<tr>
<td>Snapshot</td>
<td>JPEG capture, capture resolution is the max coding resolution</td>
<td></td>
</tr>
<tr>
<td>Security Features</td>
<td>Support password protection, watermarking features</td>
<td></td>
</tr>
<tr>
<td>Text Overlay</td>
<td>Support (Channel name and time title)</td>
<td>Support VBR/CBR</td>
</tr>
<tr>
<td>Alarm</td>
<td>Support network anomaly, mask alarm and etc.</td>
<td></td>
</tr>
<tr>
<td>Intelligent Function</td>
<td>Support line-crossing detection</td>
<td></td>
</tr>
<tr>
<td>Mobile APP</td>
<td>iOS, Android</td>
<td></td>
</tr>
<tr>
<td>Network Function</td>
<td>TCP/IP, UDP, HTTP, IGMP, ICMP DHCP, RTP/RTSP, DNS, DDNS, FTP, NTP, PPPOE, UPnP, SMTP, SNMP</td>
<td></td>
</tr>
<tr>
<td>Protocol</td>
<td>Support ONVIF and CGI protocol</td>
<td></td>
</tr>
<tr>
<td>Protection Grade</td>
<td>IP66</td>
<td></td>
</tr>
<tr>
<td>POE</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Power</td>
<td>DC 12V</td>
<td></td>
</tr>
<tr>
<td>Operation Temperature</td>
<td>-10°C ~ +60°C</td>
<td></td>
</tr>
<tr>
<td>Operation humidity</td>
<td>10~90%</td>
<td></td>
</tr>
<tr>
<td>Power supply</td>
<td>10.0W max</td>
<td></td>
</tr>
<tr>
<td>Size</td>
<td>98 x 96 x 265 (mm)</td>
<td>98 x 96 x 265 (mm)</td>
</tr>
<tr>
<td>Weight (Kg)</td>
<td>1.200</td>
<td>1.200</td>
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<tr>
<td>EAN</td>
<td>5702663010963</td>
<td>5702663010970</td>
</tr>
</tbody>
</table>
TRIAX NVR Digital Network Video Recorder
4, 8 or 16 Channel IP

Features and Benefits
- Compact IP NVR
- H.264 720p real-time recording
- TRIAX P2P mobile App
- Support ONVIF
- Compatible with High Resolution 4MP cameras
- TRIAX common menu structure
- CAT5e cabling 90m
- Live view, Motion detection and Alarm activation
- Choice of HDD

Technical specification

<table>
<thead>
<tr>
<th>Type</th>
<th>NVR 4</th>
<th>NVR 8</th>
<th>NVR 16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art. No.</td>
<td>301046</td>
<td>301047</td>
<td>301048</td>
</tr>
<tr>
<td>Operating System</td>
<td>Embedded LINUX</td>
<td>Embedded LINUX</td>
<td>Embedded LINUX</td>
</tr>
<tr>
<td>Pentaplex Function</td>
<td>Live monitoring, recording, playback, back up &amp; remote access</td>
<td>Live monitoring, recording, playback, back up &amp; remote access</td>
<td>Live monitoring, recording, playback, back up &amp; remote access</td>
</tr>
<tr>
<td>Control Mode</td>
<td>Front panel, USB mouse, IR remote control, network</td>
<td>Front panel, USB mouse, IR remote control, network</td>
<td>Front panel, USB mouse, IR remote control, network</td>
</tr>
</tbody>
</table>

**Video**
- IP Camera Input
  - 4Ch. (40Mbps)
  - 8Ch. (80Mbps)
  - 16Ch. (160Mbps)
- Decoding Capability
  - 4Ch. D1@25fps
  - 720p@25fps
  - 1080p@25fps
  - 4Ch. D1@25fps
  - 720p@25fps
  - 1080p@25fps
  - 8Ch. D1@25fps
  - 720p@25fps
  - 1080p@25fps
  - 13Ch. D1@25fps
  - 720p@25fps
  - 1080p@25fps
- Support Protocol | ONVIF | ONVIF | ONVIF |
- Standard | PAL (625 lines, 50/Hz), NTSC (525 lines, 60 Hz) |
- Output | 1 x CVB, BNC (1.0Vp-p, 75Ω) | 1 x HDMI, 1.3a support 1920 x 1080 Resolution | 1 x VGA, 1920 x 1080, 1440 x 900, 1280 x 1024, 1024 x 768, 800 x 600 Resolution |

**Audio**
- Output | 1 x BNC (2.0Vpp @300Ω) |
- Two-way | 1st. Channel reuse |

**Display**
- IP Resolution | 5MP/3MP/1080p/UXGA/720p/VGA/4CIF/DCF/2CIF/CIF/QCIF |
- Frame | 1 ~ 30fps |
- Tour Display | Support |
- Privacy Masking | For zone for privacy masking for each channel |

**Recording**
- Video Compression | MPEG 4 / H.264 Main Profile @ level 4.2 |
- Audio Compression | G.711A |
- Image Encoding | Adjustable encoding quality, variable code stream / fixed code stream |
- Dual Stream | Support |
- Recording Mode | Manual, auto, motion detection, stop |
- Time bar | Support |
### Type

<table>
<thead>
<tr>
<th>Type</th>
<th>NVR 4</th>
<th>NVR 8</th>
<th>NVR 16</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Video Detection &amp; Alarm</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trigger Events</td>
<td>Recording, PTZ, Tour, Email</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motion Detection</td>
<td>396 (22x18) detection zone, variable sensitivity levels</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capture</td>
<td>JPEG capture</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Playback Resolution</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max Playback</td>
<td>1/2/4 Ch.</td>
<td>1/2/4/8 Ch.</td>
<td>1/2/4/8/16 Ch.</td>
</tr>
<tr>
<td>Backup mode</td>
<td>USB, HDD, Network Backup</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Network</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethernet</td>
<td>1 x RJ45 socket (10M/100M/1000M)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Network Protocol</td>
<td>TCP/IP, UDP, HTTP, RTTP/RTSP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Network Functions</td>
<td>DHCP, PPOE, DDNS, SMTP, SNMP, FTP, UPnP, P2P, 3G</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remote Operations</td>
<td>Monitoring, PTZ control, playback, system setting, file download, log information</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Smart Phone</td>
<td>iPhone, iPad, Android</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SATA</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Capacity</td>
<td>6TB Max per SATA</td>
<td>6TB Max per SATA</td>
<td>6TB Max per SATA</td>
</tr>
<tr>
<td>HDD Management</td>
<td>Hard disk hibernation technology, HDD faulty alarm</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>External Interface</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USB Interface</td>
<td>2 USB 2.0 ports</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RS 485</td>
<td>Standard RS 485, half duplex, PTZ control</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PoE Function</td>
<td>4Ch.</td>
<td>8Ch.</td>
<td>8Ch.</td>
</tr>
<tr>
<td>IEEE 802.3af</td>
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</tr>
<tr>
<td>IEEE 802.3af</td>
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<tr>
<td>IEEE 802.3af</td>
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</tr>
<tr>
<td>IEEE 802.3af</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RA45 (10M/100M)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RA45 (10M/100M)</td>
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</tr>
<tr>
<td>RA45 (10M/100M)</td>
<td></td>
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</tr>
<tr>
<td><strong>Environment</strong></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Power Supply</td>
<td>48 VDC 1.35A (PoE)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Consumption</td>
<td>6W (without HDD &amp; PoE)</td>
<td>7W (without HDD &amp; PoE)</td>
<td>8W (without HDD &amp; PoE)</td>
</tr>
<tr>
<td>Working Temperature</td>
<td>0°C ~ +55°C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Working Humidity</td>
<td>10 ~ 90% RH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions (mm)</td>
<td>45(H) x 215 (W) x235 (D)</td>
<td>1U: 48(H) x 360 (W) x260 (D)</td>
<td>1U: 48(H) x 360 (W) x260 (D)</td>
</tr>
<tr>
<td>Weight (Kg)</td>
<td>0.9 (without HDD)</td>
<td>2.0 (without HDD)</td>
<td>2.0 (without HDD)</td>
</tr>
<tr>
<td>EAN</td>
<td>5702663010468</td>
<td>5702663010475</td>
<td>5702663010482</td>
</tr>
</tbody>
</table>
TRIAX Accessories
WD Purple™ Surveillance Hard Drives (use with NVR / THDR)

Features and Benefits

- Built for 24/7 always on high temperature surveillance systems
- Improved performance
- Built for compatibility with industry leading chassis and chip set manufacturers for seamless integration
- Optimised to support up to 32 high definition surveillance cameras
- Lower power consumption, crucial in high temperature always on surveillance

Technical specification

<table>
<thead>
<tr>
<th>Type</th>
<th>1TB WD10PURX WD Purple™</th>
<th>2TB WD20PURX WD Purple™</th>
<th>4TB WD40PURX WD Purple™</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art. No.</td>
<td>301057</td>
<td>301058</td>
<td>301059</td>
</tr>
<tr>
<td>Interface</td>
<td>SATA - 6GB/S</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Form Factor</td>
<td>3.5 inch</td>
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</table>

Power Extension DC Cable

Technical specification

<table>
<thead>
<tr>
<th>Type</th>
<th>DC1x5 Split Power Extension DC Cable</th>
<th>DC1x8 Split Power Extension DC Cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art. No.</td>
<td>301071</td>
<td>301072</td>
</tr>
<tr>
<td>Connectors</td>
<td>1 x Female - 5 x Male</td>
<td>1 x Female - 8 x Male</td>
</tr>
<tr>
<td>Remarks</td>
<td>Splits DC voltage upto 5 cameras</td>
<td>Splits DC voltage upto 8 cameras</td>
</tr>
</tbody>
</table>
TRIAX Accessories
- for a professional installation

TX 5912 - RG59 + 12VDC Cable
- Enables video and voltage to be delivered to a CCTV camera through a twin cable

Technical specification

<table>
<thead>
<tr>
<th>Type</th>
<th>TX 5912 100m Twin Cable</th>
<th>TX 5912 200m Twin Cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art. No.</td>
<td>370783</td>
<td>370784</td>
</tr>
<tr>
<td>Cable type</td>
<td>RG59 + 12VDC</td>
<td>RG59 + 12VDC</td>
</tr>
<tr>
<td>Cable colour</td>
<td>Black</td>
<td>Black</td>
</tr>
<tr>
<td>Remarks</td>
<td></td>
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</table>

BNC tools

Technical specification

<table>
<thead>
<tr>
<th>Type</th>
<th>CBT 1 BNC Compression Tool</th>
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</thead>
<tbody>
<tr>
<td>Art. No.</td>
<td>301086</td>
</tr>
<tr>
<td>Connectors</td>
<td>BNC C1 Compression</td>
</tr>
<tr>
<td>Remarks</td>
<td>Professional compression tool for use with BNC C1 connector 301075</td>
</tr>
</tbody>
</table>
TRIAX Accessories
- for a professional installation

Connectors for TX5912 Cable

Technical specification

<table>
<thead>
<tr>
<th>Type</th>
<th>MPP 1 Male Power Plug</th>
<th>FPP 1 Female Power Plug</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art. No.</td>
<td>301073</td>
<td>301074</td>
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<tr>
<td>Connectors</td>
<td>1 x DC - male</td>
<td>1 x DC - female</td>
</tr>
<tr>
<td></td>
<td>2 x Screw terminal</td>
<td>2 x Screw terminal</td>
</tr>
<tr>
<td>Remarks</td>
<td>Plugs into CCTV camera to deliver power from source</td>
<td>Plugs into your power source to deliver power to your CCTV camera</td>
</tr>
</tbody>
</table>

BNC Connectors for TX5912 Cable

Technical specification

<table>
<thead>
<tr>
<th>Type</th>
<th>BNC C1 Connector [Compression]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art. No.</td>
<td>301075</td>
</tr>
<tr>
<td>Connectors</td>
<td>1 x Female</td>
</tr>
<tr>
<td>Remarks</td>
<td>Professional connector to deliver video from your CCTV camera to your DVR</td>
</tr>
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</table>
TRIAX Accessories
- for a professional installation

Converters

Technical specification

<table>
<thead>
<tr>
<th>Type</th>
<th>VTC C1 Converter</th>
<th>VAP B1 Converter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Video RG59 &gt; CAT5 Converter Pair</td>
<td>Video Audio Power RG59 &gt; CAT5 Balun Pair</td>
</tr>
<tr>
<td>Art. No.</td>
<td>301077</td>
<td>301078</td>
</tr>
<tr>
<td>Connectors</td>
<td>BNC (on 30mm fly lead), RJ-45, screw audio terminals</td>
<td>BNC, Phono, DC (Male), RJ-45 / BNC (on 80mm fly lead), Phono, DC (Female), RJ-45</td>
</tr>
<tr>
<td>Remarks</td>
<td>Enables CAT cable to be used between CCTV camera and DVR for video</td>
<td>Enables CAT cable to be used between CCTV camera and DVR for video, audio and power</td>
</tr>
</tbody>
</table>

POWER SUPPLIES

Technical specification

<table>
<thead>
<tr>
<th>Type</th>
<th>PSU 1218/12</th>
<th>PSU 249/8</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>12VDC - 12A PTC Protection</td>
<td>24VAC - 8A</td>
</tr>
<tr>
<td>Art. No.</td>
<td>301081</td>
<td>301082</td>
</tr>
<tr>
<td>Ports for connecting cameras</td>
<td>18 *)</td>
<td>9 x PTZ *)</td>
</tr>
<tr>
<td>DC</td>
<td>12 VDC</td>
<td>24 VAC</td>
</tr>
<tr>
<td>Amp</td>
<td>12</td>
<td>9</td>
</tr>
<tr>
<td>Remarks</td>
<td>Connects up to 18 CCTV cameras</td>
<td>Connects up to 9 PTZ CCTV cameras</td>
</tr>
</tbody>
</table>

* Depending on camera power requirements.

Technical specification

<table>
<thead>
<tr>
<th>Type</th>
<th>PSU 125</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>12VDC - 5A Single O/Put</td>
</tr>
<tr>
<td>Art. No.</td>
<td>301087</td>
</tr>
<tr>
<td>Ports for connecting cameras</td>
<td></td>
</tr>
<tr>
<td>DC</td>
<td>12</td>
</tr>
<tr>
<td>Amp</td>
<td>5</td>
</tr>
<tr>
<td>Remarks</td>
<td>Use with DC 1x4 Split (part code 301071) and DC 1x8 Split (part code 301072) to provide power for CCTV cameras up to 5 amps.</td>
</tr>
</tbody>
</table>
What we mean by...
Surveillance Solutions

Addressing
Addressing provides a means of identifying individual items that are located on a network.

AGC
Automatic Gain Control. A circuit that provides a method of keeping a signal at a constant level. Cameras use AGC to keep the video signal level high under low light conditions.

ALC
Automatic Level Control. This is found on auto iris lenses and is a means of ‘fine tuning’ the sensitivity of the lens. If set to ‘peak’, bright areas can show more detail and if set to ‘average’ dark areas will show more detail. The default setting is halfway on most lenses and will suit the majority of installations.

Angle of View
The maximum width of view available from a CCD imager, regardless of the lens fitted. The bigger the CCD imager format, the wider the angle of view.

Aperture
A means of adjusting the amount of light passing through a lens. In the CCTV environment the lens iris is the aperture control method.

Auto Iris
A facility built into lenses to control the amount of light allowed through the lens. The auto iris compensates for differing light levels, allowing the camera picture to be consistent under varying light conditions.

Auto White Balance
This is a facility provided on most colour cameras to adjust while levels relative to other colours.

Back Focus
The position of the imaging device in relation to the focal point of the lens, it is sometimes referred to a “rack focus”. When setting up a zoom lens the back focus must be set to allow correct tracking of focus throughout the zoom range.

Bandwidth
The frequency response capability of a device or communications medium. The greater the bandwidth, the larger the capacity of the system i.e. the more information carrying ability the CCTV or network system has.

BLC
Back Light Compensation. A feature found on some cameras that allows it to deal with different lighting levels in the scene of view, such as looking from a dark room into a doorway. BLC enables detail to be seen in otherwise dark or shadowed areas where silhouetting would otherwise occur.

BNC
Used for terminating coaxial cables, the main connector in the CCTV industry.

CCD
Charge Coupled Device. A light sensitive imaging device for almost all cameras. Typical sizes for CCTV cameras: 1/2", 1/3" & 1/4"

CMOS (Complementary Metal Oxide Semiconductor)
Unlike CCDs, CMOS sensors have circuitry at the pixel level. This means that every pixel on the sensor is read and transmitted simultaneously, preparing voltage for the chip. The chip then uses additional technology, such as amplifiers, noise correction, and digitisation to convert the voltage to digital data. This means CMOS sensors do not require a separate image processor.

Cloud Storage
Triax DVR’s now have the functionality of CLOUD STORAGE. If you have this function, you can upload Snapshots and recorded footage to the cloud.

Composite Video
A complete video signal, in which the Luminance (brightness) and Chrominance (colour)
Compression
Compression techniques are used in digital CCTV to reduce the file sizes of recorded video images. Typical compression formats used for video are: MJPEG, MPEG-4 & H.264.

Day/Night Camera
A type of camera that can capture video during the day or night. In low light conditions, the sensor may switch from colour to black & white in order to enhance the picture quality.

Digital Noise Reduction
The chip inside your camera is constantly picking up noise from interference and by-products produced by other circuits and electronic components within it. These noise artefacts can translate into images and video as fine static, snow or fuzzy images. Digital Noise Reduction (DNR) is a method by which the camera’s imager digitally removes noise from the image. 3D DNR is an advancement of this technology which enables noise to be filtered even more effectively from the image, even in low light conditions.

Digital Zoom
A facility provided on some video multiplexers and CCTV cameras, which allows the image to be ‘zoomed into’, the higher the zoom ration the more ‘blocky’ the image can become.

DSP
Digital Signal Processing. A system supported by some CCTV cameras, which allows intelligent manipulation of the video signal in the camera for features such as backlight compensation.

Dwell
The time period in which a switcher will remain on one camera input before switching to the next in the sequence. It can also refer to the time spent by a device at a preset position when in tour mode.

EI
Electronic Iris. This is a system within CCTV cameras where an electronic shutter is built into the camera. It allows a normal fixed iris lens to be fitted in a wider range of applications. It should not be assumed that EI would negate the need for an auto iris lens.

Ethernet
Ethernet is the most widely utilised network technology. Specified in a standard, IEE 802.3, Ethernet was originally developed by Xerox and then developed further by Xerox, DEC, and Intel. It is now a popular means of distributing data and/or video.

Field
A field is one half of a complete TV picture and can comprise of all odd lines or all even lines.

Focal Length
This is a distance from the centre of the lens to a point at which images come into focus. The CCD imager is usually set at this point to ensure image clarity. This value is what denotes the angle of view and size of the target image.

Frame
A complete TV picture comprising of two fields, one odd and one even.

Frame Rate
The quality of a Digital Surveillance Systems is often determined by the Total Frame Rate it can record at. The higher the Frame Rate, the higher the quality of recording and the more Real Time your CCTV recording will be - Real Time recording for 1 camera is 25 Frames Per Second (PAL)

F-Stop
In photography, this is a term used to indicate the speed of a lens in terms of exposure. It directly relates to the iris setting of the lens and thus the amount of light allowed through. The smaller the f-stop setting, the more light is allowed through.

H.264
A video codec standard which can achieve high quality video in relatively low bitrates. The Triax Range of DVR’s and NVR’s use the latest H.264 Compression technology saving valuable space on your HDD during Recording.
What we mean by...
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HD TVI
HD TVI High Definition Transmit Video Interface - This technology enables a high efficiency of real time HD Transmissions over long distance using standard RG 59 coaxial cable. The technology supports two HD video formats 720p and 1080p.

Infrared
Frequency range within the spectrum of light that is invisible to the human eye. CCTV Illumination is usually designed around the infrared range of 730 – 815 nanometres.

IP rating
A system of rating a piece of equipment against dust and water ingress.

IR LED
Infra-red light emitting diode. Emits infra-red light not visible to the naked eye to provide illumination in low light.

LAN
Local area network, usually within the same building or series of buildings.

Luminance
The brightness element of a video signal.

LUX
Measurement used to express light intensity.

Motion Detection
Recording method for digital surveillance systems. When a subject walks in front of a camera, the pixels change and the DVR defines this as motion. The surveillance system will record these images to the hard disk. This is a popular recording setup since motion recording reduces or eliminates unnecessary recording of unoccupied spaces.

MPEG
Motion Picture Experts Group. Standard user for conditional refresh capture and transition of digital video images.

ONVIF
Open Network Video Interface Forum development of a Global Standard for interfacing IP - based physical security products

P2P Technology
P2P network service allows you to remotely connect to your DVR without the need to carry out any complicated network setup.

PAL
Phase Alternating Line. The colour TV system used in the UK, Europe and some other parts Of the world, 625 lines, 50 fields per sec.

Pan
Camera movement on the horizontal plane.

Pixel
Term used for a single picture element. A monitor or TV has a display That comprises millions of pixels; each pixel is illuminated with varying intensity to create the picture display.

Presets
Functionally that is supported by some telemetry equipment. Position related feedback is provided by the zoom lens and pan/tilt head. Either the telemetry receiver or matrix stores this feedback whenever a position is stored as a preset. The system operator can recall preset positions very quickly with the minimum of key presses.

Privacy zone
A feature present on some CCTV equipment to comply with the data protection act. The feature allows sensitive areas of a PTZ cameras view to be blanked out so that they cannot be viewed.

Protocol
A set of rules that govern how elements of a system inter-communicate.
Quad
Either a 4 way video processing unit or the 4 way screen generated by a video multiplexer.

Resolution
A measurement of the ability of a piece of CCTV equipment or system to display Detail. Measured in TV lines.

RS485
2 wire balanced, party line multi-drop data transmission presentation, used in many telemetry and matrix switcher networks. Can run in simplex or half-duplex mode.

Shutter Speed
Electronic circuit found in many CCD cameras which allows the light gathering period of the camera to manually altered.

Surveillance
The object must fill at least 5% of the frame in order to be distinguishable from other objects. One must be able to distinguish between a person or an object/ overview image of what is happening in an area.

TCP/IP
Transmission control protocol/Internet protocol. Title given to suite of protocols that are used on computer networks, without which the Internet signal would be not possible.

Telemetry
A system that provides camera control via coding. The coding is either sent with the video signal or is transmitted as data via a network.

Terabyte
1024 Gigabytes = 1 Terabyte.

Termination
A method of matching electrical signals to the transmission medium. In the CCTV environment termination is important for the video signals and also any data networks using RS485 or RS422.

Tour/Cruise
Facility provided by some CCTV control systems where a PTZ camera or dome can be programmed to tour between a specified series of presets. It is usually possible to program a dwell time to stay at each preset and also a speed value at which the camera will travel between presents.

Twisted pair
Refers to a generic cable type, originally from the telecommunications industry where internal cable pairs are twisted together equally for the entire cable length. This type of cable is ideal for balanced data transmission.

Varifocal lens
A CCTV camera lens whose focal length / viewing angle can be manually adjusted to suit the camera view required. Typical Vari-Focal lens lengths are: 2.5mm-10mm, 2.8mm-12mm, 3.5mm-8mm, 5mm-50mm.

WDR
Wide Dynamic Range allows Analogue Security Cameras to treat different areas in the image individually and apply separate brightness modifications within the same view giving a more balanced lighting effect.

White Balance
White balance basically means colour balance. It is a function which gives the camera a reference to “true white” – it tells the camera what the colour white looks like, so the camera will record it correctly. Since white light is the sum of all other colours, the camera will then display all colours correctly.
Headquartered in Denmark, TRIAX is an international supplier of innovative, high-tech solutions for the reception and distribution of video, audio and data signals. The company’s products and solutions are used by broadcasters, cable operators, local closed networks and domestic dwelling.

TRIAX has 9 sales subsidiaries generating a turnover of approx. €90M and operates in more than 60 distributor countries. The TRIAX team consists of 350 employees and is owned Polaris Private Equity.

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