

# TCS-2000

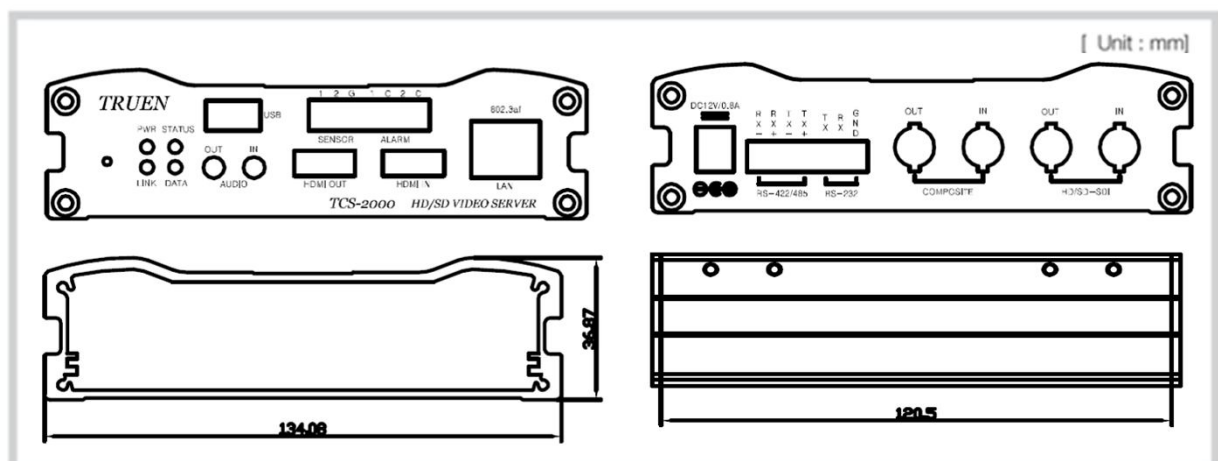
## 1CH HD Encoder / Decoder

### Features

- 1CH 고해상도 HD급 비디오서버(엔코더/디코더 지원)
- 최대 FULL-HD급(1920x1080 / 30fps) 지원
- 듀얼스트리밍 지원 (H.264/H.264, H.264/MJPEG)
- 오디오 양방향 지원(G.711, AAC)
- 다양한 입/출력지원(컴포지트/HDMI/HD-SDI)
- PoE (Power Over Ethernet) 지원
- USB 로컬 녹화 지원
- RS-232, RS-422/485 통신 지원
- Motion Detection 지원
- 비디오 전송대역폭 : 32kbps ~ 8Mbps
- 2CH 센서입력 / 2CH 알람출력 지원
- 프로토콜 : TCP/IP, Multicast, UDP, HTTP, SMTP, FTP, DHCP, DNS, Dynamic DNS, RTP, RTSP, SNMP 등
- ONVIF, PSIA 국제 표준 프로토콜 지원



### Dimension



Specification and design are subject to change without prior notice

## Specification

| Model |        | TCS-2000                                                               |
|-------|--------|------------------------------------------------------------------------|
| 시스템   | 시스템모드  | Encoder, Decoder                                                       |
| 네트워크  | 인터페이스  | Ethernet 10/100Base-T (RJ-45)                                          |
|       | 프로토콜   | TCP/IP, UDP, Multicast, DHCP, SMTP, HTTP, SNMP, RTP, RTSP, PSIA, ONVIF |
| 비디오   | 압축방식   | Main Stream: H.264                                                     |
|       |        | Secondary Stream: H.264                                                |
|       | 비트레이트  | 32Kbps ~ 8Mbps                                                         |
|       | 해상도    | 1920x1080/60i ~ 352x240/30fps, 18 resolution step                      |
|       | 프레임레이트 | 1 ~ 30fps                                                              |
|       | 입력 1   | 1 x HDMI type A, HDMI RX                                               |
|       | 입력 2   | 1 x Composite (BNC Type)                                               |
|       | 입력 3   | 1 x HD/SD-SDI (BNC Type) – Option                                      |
|       | 출력 1   | 1 x HDMI type A, HDMI TX                                               |
|       | 출력 2   | 1 x Composite (BNC Type)                                               |
|       | 출력 3   | 1 x HD/SD-SDI (BNC Type) – Option                                      |
|       | 모션 디텍션 | 민감도 단계별 조정                                                             |
| 오디오   | 압축방식   | G.711, AAC                                                             |
|       | 샘플비    | G.711: 8KHz, AAC: 32KHz                                                |
|       | 비트레이트  | G.711: 64Kbps, AAC: 64Kbps, 128Kbps                                    |
|       | 입력     | 1 x Line-In (Mini-Stereo, Single Mono)                                 |
|       | 출력     | 1 x Line-Out (Mini-Stereo, Single Mono)                                |
| 시리얼   | 포트 1   | 1 x RS-232 (Terminal Block)                                            |
|       | 포트 2   | 1 x RS-422/485 (Terminal Block)                                        |
|       | 비트레이트  | 2,400bps ~ 115,200bps                                                  |
| 센서/알람 | 센서입력   | 2 x NO Contact (Terminal Block)                                        |
|       | 알람출력   | 2 x NO Contact (Terminal Block)                                        |
|       | Beep   | 1 x Buzzer 88dB Min                                                    |
|       | 리셋     | 1 x Factory Reset Button                                               |
| 사용자정보 | 시스템상태  | LED                                                                    |
| 저장    | 저장/백업  | 1 x USB 2.0 Port                                                       |
| 소프트웨어 | TVMS   | Live Monitoring, Recording, Search & Playback, Backup                  |
| 제원    | 규격     | 134.08(W) X 125.5(D) X 36.87(H)mm                                      |
|       | 무게     | 504g                                                                   |
|       | 전원     | DC 12V/0.8A, PoE(Power over Ethernet): 802.3af                         |
|       | 소비전력   | Max 9.6W                                                               |
|       | 동작온도   | -10°C ~ 50°C / 14°F ~ 122°F                                            |

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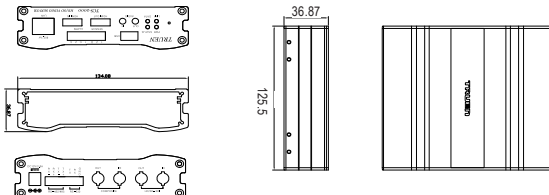


### HD Video Sunucu TCS-2000

- Full HD (1920x1080) Çözünürlük Encoder/Decoder
- Dual Streaming (H.264/MJPEG)
- HDMI, Kompozit Video Giriş/Çıkış
- HD-SDI Video Giriş/Çıkış - Opsiyonel
- USB Memory' ye Anlık Kayıt İmkânı
- Çift Yönlü Ses Haberleşme (G.711/AAC) 1 ses giriş ve çıkış
- RS-232 ve RS-422/485 Desteği
- 2 Alarm giriş, 2 alarm çıkış
- Hareket Algılama
- MPEG2-TS Desteği
- Poe(802.3af) desteği ve 12VDC(adaptör hariç) besleme
- Truen 16 Kanal ücretsiz TVMS yazılımı
- PSIA & ONVIF desteği
- 4 Seviyeli Kullanıcı Kimlik Doğrulaması, HTTPS Desteği, IP Adres Filtreleme
- Nuuo IP+ Yazılımı, NVRmini2, NVRTitan ve Surveon NVR yazılımları ile entegrasyon



#### Truen TVMS Client (Uzak İzleme Yazılımı)



### TCS-2000

Full HD (1920 x 1080)

| Model       | TCS-2000            |                                                                                                                               |
|-------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Sistem      | Sistem Mod          | Encoder, Decoder                                                                                                              |
|             | Encoding Mod        | NORMAL / MPEG-TS                                                                                                              |
| Network     | Network Arayüzü     | Ethernet 10/100Base-T (RJ-45)                                                                                                 |
|             | Network Protokol    | TCP/IP, Multicast, UDP, HTTP, HTTPS, SMTP, FTP, DHCP, DNS, DDNS, RTP, RTSP, SNMP, UPnP, WS-Discovery, Zero Configuration, NTP |
| Video       | Sıkıştırma          | Birincil : H.264, İkincil : H.264 / MJPEG                                                                                     |
|             | Data Rate           | 32Kbps ~ 10Mbps                                                                                                               |
|             | Çözünürlük          | 1920x1080 ~ 352x240/30fps, 18 ayrı çözünürlük                                                                                 |
|             | Frame Rate Aralığı  | 1 ~ 30fps                                                                                                                     |
|             | Giriş 1             | 1 x HDMI type A, HDMI RX                                                                                                      |
|             | Giriş 2             | 1 x Kompozit (BNC Type)                                                                                                       |
|             | Giriş 3             | 1 x HD/SD-SDI (BNC Type) – Opsiyonel                                                                                          |
|             | Çıkış 1             | 1 x HDMI type A, HDMI TX                                                                                                      |
|             | Çıkış 2             | 1 x Kompozit (BNC Type)                                                                                                       |
|             | Çıkış 3             | 1 x HD/SD-SDI (BNC Type) – Opsiyonel                                                                                          |
| Ses         | Hareket Algılama    | Hassasiyet Ayarlı                                                                                                             |
|             | Sıkıştırma          | G.711 , AAC                                                                                                                   |
|             | Sample Rate         | G.711: 8KHz, AAC: 32KHz                                                                                                       |
|             | Data Rate           | G.711: 64Kbps, AAC: 64Kbps, 128Kbps                                                                                           |
|             | Giriş / Çıkış       | 1 x Line-In (Mini-Stereo, Single Mono) / 1 x Line-Out (Mini-Stereo, Single Mono)                                              |
| Seri Arayüz | Port1               | 1 x RS-232 (Terminal Block)                                                                                                   |
|             | Port2               | 1 x RS-422/485 (Terminal Block)                                                                                               |
|             | Data Rate           | 2,400bps ~ 115,200bps                                                                                                         |
| Alarm/Etc   | Alarm Giriş / Çıkış | 2 x NO Kontakt (Terminal Block) / 2 x NO Kontakt (Terminal Block)                                                             |
|             | Beep                | 1 x Buzzer 88dB Min                                                                                                           |
|             | Reset Butonu        | 1 x Factory Reset Button                                                                                                      |
| Arayüz      | Sistem Durumu       | LED                                                                                                                           |
| Depolama    | Kayıt/Backup        | FTP, 1 x USB 2.0 Port                                                                                                         |
| Genel       | Boyut               | 134.08(W) x 125.5(D) x 36.87(H)mm                                                                                             |
|             | Ağırlık             | 504g                                                                                                                          |
|             | Güç Kaynağı         | DC 12V/0.8A, PoE(Power over Ethernet): 802.3af                                                                                |
|             | Güç Tüketimi        | Max 9.6W                                                                                                                      |
|             | İşletim Sıcaklığı   | -10°C ~ 50°C                                                                                                                  |
|             | Sertifika           | CE, FCC, RoHS                                                                                                                 |

## HD Encoder / Decoder

# TCS-2000

Up to 30fps at 1920 x 1080

Dual Streaming (H.264/H.264, H.264/MJPEG)

MPEG2-TS Supported

Two Way Audio Communication (G.711, AAC)

HDMI Video In/Output

Composite Video In/Output

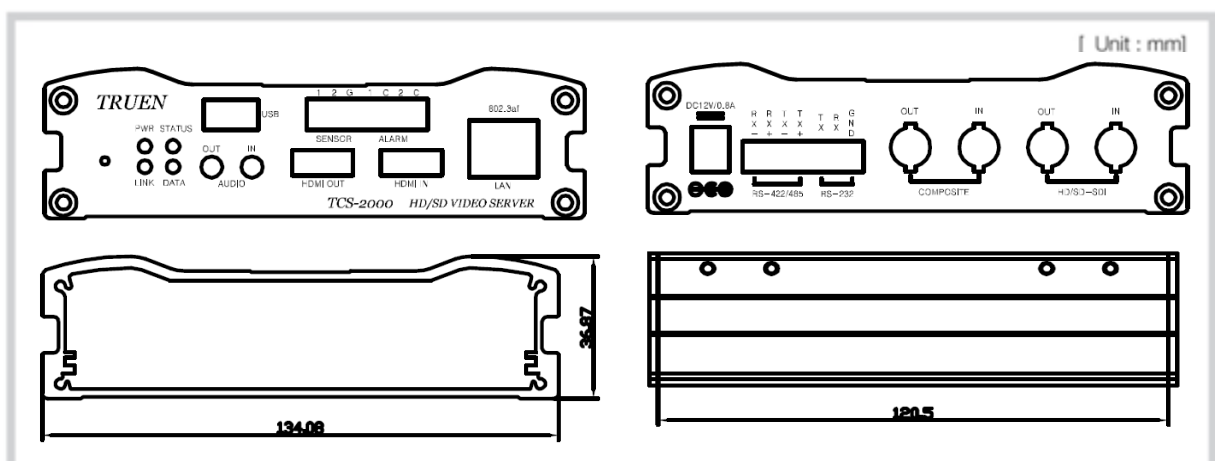
HD/SD-SDI Video In/Output – Optional



### Features

- PoE (Power Over Ethernet)
- USB Recording
- Watchdog for System Recovery
- RS-232, RS-422/485 Communication
- Motion Detection
- 2CH Sensor Input / 2CH Alarm Output
- Adjustable Video Bitrate : 32Kbps ~ 10Mbps for Primary Video, 32Kbps ~ 1Mbps for Secondary Video
- Adjustable Video Data Bandwidth : 2,400bps ~ 115,200bps
- Various Protocols : TCP/IP, Multicast, UDP, HTTP, SMTP, FTP, DHCP, DNS, Dynamic DNS, RTP, RTSP, SNMP
- Full Technical Support with SDK & API

### Dimension

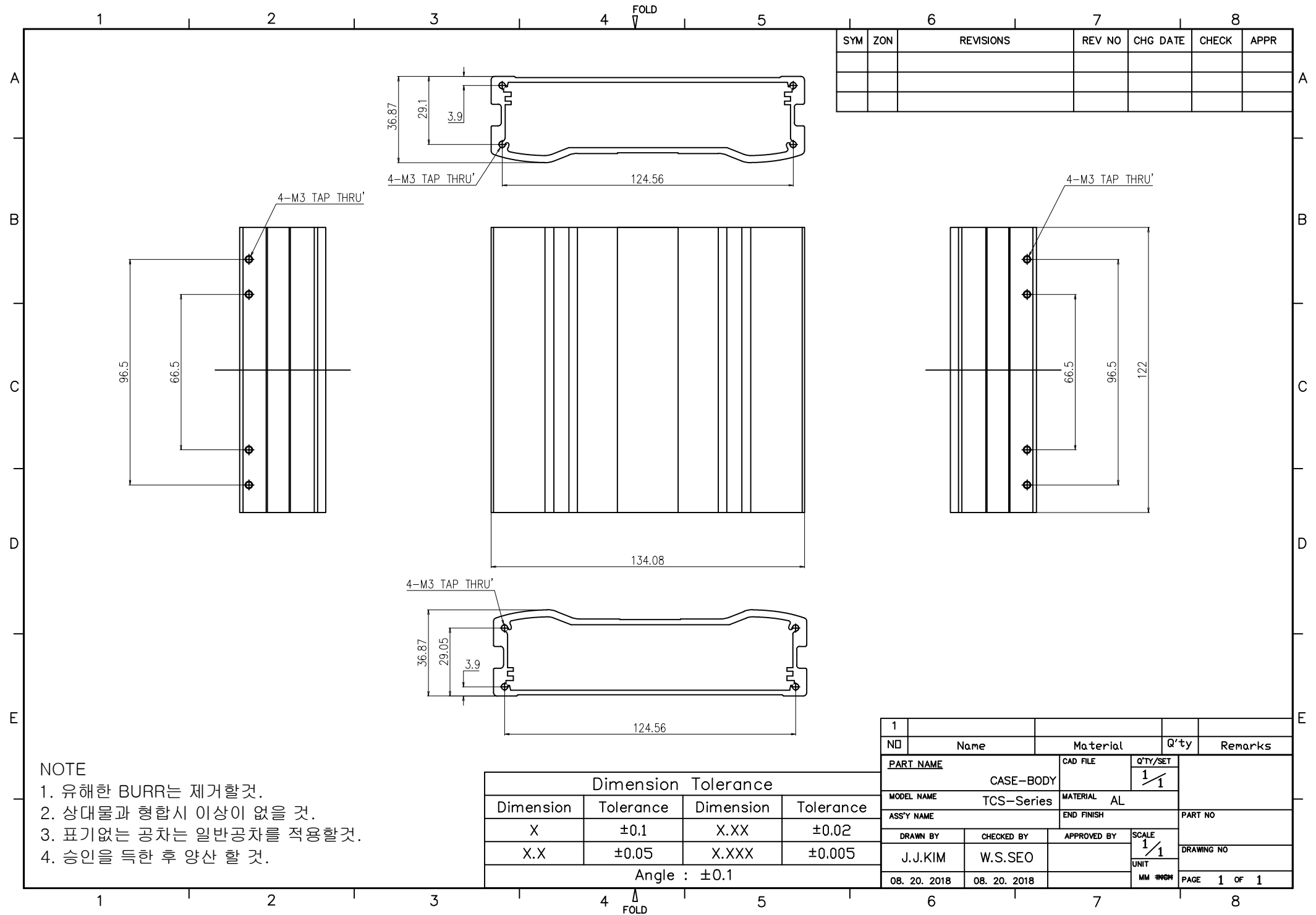


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## Specification

| Section         |                                   | TCS-2000                                                                                                                                   |
|-----------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| System          | System Mode                       | Encoder / Decoder                                                                                                                          |
| Video           | Compression                       | H.264, MJPEG                                                                                                                               |
|                 | Framerate                         | Max 30fps @ 1920x1080                                                                                                                      |
|                 | Bitrate                           | Primary : 32Kbps ~ 10Mbps, Secondary: 32Kbps ~ 1Mbps                                                                                       |
|                 | Resolution                        | 352x240 ~ 1920x1080                                                                                                                        |
|                 | Streaming                         | Primary : H.264, Secondary : H.264/MJPEG                                                                                                   |
|                 | Burn-in OSD                       | English                                                                                                                                    |
|                 | Input                             | 1 x HDMI (type A)<br>1 x Composite (BNC)<br>1 x HD/SD-SDI (BNC) – Option                                                                   |
|                 | Output                            | 1 x HDMI (type A)<br>1 x Composite (BNC)<br>1 x HD/SD-SDI (BNC) – Option                                                                   |
| Audio           | Compression                       | G.711 / AAC                                                                                                                                |
|                 | Sample rate                       | G.711 : 8KHz, AAC : 32KHz                                                                                                                  |
|                 | Bitrate                           | G.711 : 64Kbps, AAC : 64Kbps/128Kbps                                                                                                       |
|                 | Streaming                         | Full duplex                                                                                                                                |
|                 | Input                             | 1 x Line-In (stereo, mini-stereo type)                                                                                                     |
|                 | Output                            | 1 x Line-Out (stereo, mini-stereo type)                                                                                                    |
| Network         | Interface                         | Ethernet 10/100base-T (RJ-45)                                                                                                              |
|                 | Protocol                          | IPv4/v6, TCP, UDP, IGMP(Multicast), ICMP, DHCP, HTTP, HTTPS, RTP, RTSP, FTP, SNMP, SMTP, UPnP, WS-Discovery, Zero Configuration, NTP, DDNS |
|                 | Security                          | Password protection, IP address filtering, HTTPS encryption                                                                                |
|                 | Application Programming Interface | Truen protocol/SDK, ONVIF, PSIA, MPEG-TS                                                                                                   |
| Event and Alarm | Event sources                     | Motion, Sensor input, Video loss, Client disconnection                                                                                     |
|                 | Event actions                     | Notification(E-mail), FTP, PTZ preset, Alarm control, Recording                                                                            |
| General         | Housing                           | Aluminum                                                                                                                                   |
|                 | Certifications                    | CE, FCC, KCC, RoHS                                                                                                                         |
|                 | External devices                  | 2 x Sensor-In (dry contact, NO/NC)                                                                                                         |
|                 |                                   | 2 x Alarm-Out (dry contact, NO)                                                                                                            |
|                 |                                   | 1 x RS-232 port                                                                                                                            |
|                 |                                   | 1 x RS-422/485 port                                                                                                                        |
|                 |                                   | 1 x Buzzer (88dB min)                                                                                                                      |
|                 | Edge storage                      | 1 x USB 2.0 Port                                                                                                                           |
|                 | Power Supply                      | Min DC 12V/0.8A, PoE(Power over Ethernet): 802.3af                                                                                         |
|                 | Power Consumption                 | Max 9.6W                                                                                                                                   |
|                 | Operating Temp.                   | -10°C ~ 50°C (14°F ~ 122°F) / 20% ~ 80% RH                                                                                                 |
|                 | Dimension                         | 134.08(W) X 125.5(D) X 36.87(H)mm                                                                                                          |
|                 | Weight                            | 540g                                                                                                                                       |

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# H.264 Video Server

|                              | TCS-200 (1CH)                                                                     | TCS-300 (1CH)                                                                      | TCS-400(4CH)                                                                        | TCS-2000(1CH)                                                                       |
|------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                              |  |  |  |  |
| <b>Max Video Resolution</b>  | NTSC : 720 x 480<br>PAL : 720 x 576                                               | NTSC : 720 x 480<br>PAL : 720 x 576                                                | NTSC : 720 x 480<br>PAL : 720 x 576                                                 | <b>1920 x 1080 (Full HD)</b>                                                        |
| <b>Video Compression</b>     | H.264                                                                             | Dual Streaming<br>H.264 / H.264<br>H.264 / MJPEG                                   | Dual Streaming<br>H.264 / H.264<br>H.264 / MJPEG                                    | Dual Streaming<br>H.264 / H.264<br>H.264 / MJPEG                                    |
| <b>System mode</b>           | Encoder / Decoder / Duplex                                                        | Encoder / Decoder                                                                  | Encoder                                                                             | Encoder / Decoder                                                                   |
| <b>Video Input/ Output</b>   | Composite Input / Output                                                          | Composite Input / Output<br>HDMI Output                                            | Composite Input (4 Input)                                                           | Composite input/output<br>HDMI Input / Output<br>HD-SDI Input / Output (Optional)   |
| <b>Audio support</b>         | Two way audio communication (G.711)                                               | Two way audio communication (G.711)                                                | Two way audio communication (G.711)                                                 | Two way audio Communication (G.711)                                                 |
| <b>Max Frames Per second</b> | NTSC: 30fps<br>PAL : 25fps                                                        | NTSC: 30fps<br>PAL : 25fps                                                         | NTSC: 30fps<br>PAL : 25fps                                                          | 30fps (1920 x 1080)                                                                 |
| <b>PoE</b>                   | 802.3af                                                                           | 802.3af                                                                            | 802.3af                                                                             | 802.3af                                                                             |

# H.264 IP Box Camera

|                                   | TCAM-230                                                                          | TCAM-230W                                                                         | TCAM-330                                                                           | TCAM-330W                                                                           | TCAM-530H                                                                           | TCAM-531H                                                                           | TCAM-531C                                                                           |
|-----------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                   |  |  |  |  |  |  |  |
| <b>Max Video Resolution</b>       | NTSC : 720 x 480<br>PAL : 720 x 576                                               | NTSC : 720 x 480<br>PAL : 720 x 576                                               | NTSC : 720 x 480<br>PAL : 720 x 576                                                | NTSC : 720 x 480<br>PAL : 720 x 576                                                 | <b>1920 x 1080<br/>(2.0 Megapixel)</b>                                              | <b>1280 x 960<br/>(1.3 Megapixel)</b>                                               | <b>1280 x 960<br/>(1.3 Megapixel)</b>                                               |
| <b>Video Compression</b>          | H.264                                                                             | H.264                                                                             | Dual Streaming<br>H.264 / H.264<br>H.264 / MJPEG                                   | Dual Streaming<br>H.264 / H.264<br>H.264 / MJPEG                                    | Dual Streaming<br>H.264 / H.264<br>H.264 / MJPEG                                    | Dual Streaming<br>H.264 / H.264<br>H.264 / MJPEG                                    | Dual Streaming<br>H.264 / H.264<br>H.264 / MJPEG                                    |
| <b>Image Sensor</b>               | 1/3" SUPER<br>HAD<br>COLOR CCD                                                    | 1/3" SUPER<br>HAD<br>COLOR CCD                                                    | 1/3" SUPER<br>HAD<br>COLOR CCD                                                     | 1/3" SUPER<br>HAD<br>COLOR CCD                                                      | 1/2.5" CMOS<br>Progressive Scan                                                     | 1/3" Sony<br>Progressive<br>Scan                                                    | 1/3" Sony<br>Progressive<br>Scan                                                    |
| <b>Lens</b>                       | C/CS Selective                                                                    | C/CS Selective                                                                    | C/CS Selective                                                                     | C/CS Selective                                                                      | <b>X10 optical zoom<br/>(Built-In)</b>                                              | C/CS Mount                                                                          | C/CS Mount                                                                          |
| <b>Max Frames Per second</b>      | NTSC: 30fps<br>PAL : 25fps                                                        | NTSC: 30fps<br>PAL : 25fps                                                        | NTSC: 30fps<br>PAL : 25fps                                                         | NTSC: 30fps<br>PAL : 25fps                                                          | 30fps<br>(1920 x 1080)                                                              | 30fps (1280 x 720)<br>23fps (1280 x 960)                                            | 30fps (1280 x 720)<br>23fps (1280 x 960)                                            |
| <b>Video Output</b>               | Composite                                                                         | Composite                                                                         | Composite                                                                          | Composite                                                                           | HDMI                                                                                | HDMI                                                                                | Composite                                                                           |
| <b>WDR</b>                        |                                                                                   | Realization of<br>Powerful WDR                                                    |                                                                                    | Realization of<br>Powerful WDR                                                      |                                                                                     |                                                                                     |                                                                                     |
| <b>Options</b>                    | Optional Model                                                                    | Optional Model                                                                    | Optional Model                                                                     | Optional Model                                                                      | Optional Model                                                                      | Optional Model                                                                      | Optional Model                                                                      |
| <b>PoE</b>                        | TCAM-230P                                                                         | TCAM-230WP                                                                        | TCAM-330P                                                                          | TCAM-330WP                                                                          | TCAM-530HP                                                                          |                                                                                     | TCAM-531CP                                                                          |
| <b>TDN (True Day &amp; Night)</b> | TCAM-230T                                                                         | TCAM-230WT                                                                        | TCAM-330T                                                                          | TCAM-330T                                                                           |                                                                                     | TCAM-531HT                                                                          | TCAM-531CT                                                                          |
| <b>PoE, TDN</b>                   | TCAM-230PT                                                                        | TCAM-230WPT                                                                       | TCAM-330PT                                                                         | TCAM-330PT                                                                          |                                                                                     |                                                                                     | TCAM-531CPT                                                                         |

# H.264 IP Dome Camera

|                              | TCAM-251                                                                          | TCAM-251IR                                                                        | TCAM-351                                                                           | TCAM-351IR                                                                          | TCAM-551                                                                            | TCAM-551IR                                                                          |
|------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                              |  |  |  |  |  |  |
| <b>Max Video Resolution</b>  | NTSC : 720 x 480<br>PAL : 720 x 576                                               | NTSC : 720 x 480<br>PAL : 720 x 576                                               | NTSC : 720 x 480<br>PAL : 720 x 576                                                | NTSC : 720 x 480<br>PAL : 720 x 576                                                 | <b>1280 x 960<br/>(1.3 Megapixel)</b>                                               | <b>1280 x 960<br/>(1.3 Megapixel)</b>                                               |
| <b>Video Compression</b>     | H.264                                                                             | H.264                                                                             | Dual Streaming<br>H.264 / H.264<br>H.264 / MJPEG                                   | Dual Streaming<br>H.264 / H.264<br>H.264 / MJPEG                                    | Dual Streaming<br>H.264 / H.264<br>H.264 / MJPEG                                    | Dual Streaming<br>H.264 / H.264<br>H.264 / MJPEG                                    |
| <b>Image Sensor</b>          | 1/3" SUPER HAD<br>COLOR CCD<br>With 410K pixels                                   | 1/3" SUPER HAD<br>COLOR CCD<br>With 410K pixels                                   | 1/3" SUPER HAD<br>COLOR CCD<br>With 410K pixels                                    | 1/3" SUPER HAD<br>COLOR CCD<br>With 410K pixels                                     | 1/3" Sony<br>Progressive<br>Scan                                                    | 1/3" Sony<br>Progressive<br>Scan                                                    |
| <b>Lens</b>                  | F=4~9mm<br>Auto Iris varifocal                                                    | F=4~9mm<br>Auto Iris varifocal                                                    | F=4~9mm<br>Auto Iris varifocal                                                     | F=4~9mm<br>Auto Iris varifocal                                                      | F=3.6mm~16mm<br>F1.2 DC Auto Iris                                                   | F=3.6mm~16mm<br>F1.2 DC Auto Iris                                                   |
| <b>Max Frames Per second</b> | NTSC: 30fps<br>PAL : 25fps                                                        | NTSC: 30fps<br>PAL : 25fps                                                        | NTSC: 30fps<br>PAL : 25fps                                                         | NTSC: 30fps<br>PAL : 25fps                                                          | 30fps (1280 x 720)<br>23fps (1280 x960)                                             | 30fps (1280 x 720)<br>23fps (1280 x960)                                             |
| <b>IR LED</b>                |                                                                                   | 18pcs IR LED                                                                      |                                                                                    | 18pcs IR LED                                                                        |                                                                                     | 24pcs IR LED                                                                        |
| <b>Other</b>                 | Day & Night                                                                       | Day & Night                                                                       | Day & Night                                                                        | Day & Night                                                                         | Day & Night                                                                         | Day & Night                                                                         |
| <b>Options</b>               | Optional Model                                                                    | Optional Model                                                                    | Optional Model                                                                     | Optional Model                                                                      | Optional Model                                                                      | Optional Model                                                                      |
| <b>PoE</b>                   | TCAM-251P                                                                         | TCAM-251IRP                                                                       | TCAM-351P                                                                          | TCAM-351IRP                                                                         | TCAM-551P                                                                           | TCAM-551IRP                                                                         |

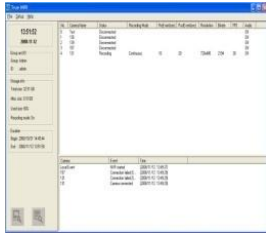
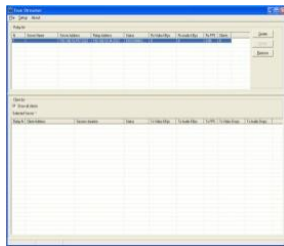
# H.264 IP PTZ Camera

|                              | TCAM-270L (10x)                                                                   | TCAM-270M (26x)                                                                      | TCAM-270H (36x)                                                                      | TCAM-270W (30x)                                                                     | TCAM-570 (10x)                                                                      |
|------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                              |  |     |   |  |  |
| <b>Max Video Resolution</b>  | NTSC : 720 x 480<br>PAL : 720 x 576                                               | NTSC : 720 x 480<br>PAL : 720 x 576                                                  | NTSC : 720 x 480<br>PAL : 720 x 576                                                  | NTSC : 720 x 480<br>PAL : 720 x 576                                                 | <b>1920 x 1080<br/>(2.0 Megapixel)</b>                                              |
| <b>Video Compression</b>     | H.264                                                                             | H.264                                                                                | H.264                                                                                | H.264                                                                               | <b>Dual Streaming<br/>H.264 / H.264<br/>H.264 / MJPEG</b>                           |
| <b>Image Sensor</b>          | 1/4" Interline Transfer CCD                                                       | 1/4" Sony Ex-View CCD                                                                | 1/4" Sony Ex-View CCD                                                                | 1/4" Interline Transfer CCD                                                         | 1/2.5" CMOS Progressive Scan                                                        |
| <b>Lens</b>                  | F1.8<br>f=3.8 ~ 38mm<br><br>10x Optical zoom<br>10x Digital zoom                  | F1.6 ~ 3.8<br>f=2.5(wide) ~ 91.0(tele)mm<br><br>26x Optical zoom<br>12x Digital zoom | F1.6 ~4.5<br>f=3.4(wide) ~ 122.4(tele)mm<br><br>36x Optical Zoom<br>12x Digital Zoom | F1.6 ~4.5<br>f=3.4(wide) ~ 122.4(tele)mm<br><br>30x Optical Zoom<br>8x Digital Zoom | 1/3.6", F=1.8 ~ 2.2<br>f=4.5mm ~ 45.0mm<br><br>10x Optical Zoom<br>10x Digital zoom |
| <b>Max Frames Per second</b> | NTSC: 30fps<br>PAL : 25fps                                                        | NTSC: 30fps<br>PAL : 25fps                                                           | NTSC: 30fps<br>PAL : 25fps                                                           | NTSC: 30fps<br>PAL : 25fps                                                          | <b>30fps (1920 x 1080)</b>                                                          |
| <b>Pan/Tilt</b>              | 128Presets<br>360° Pan<br>180° Tilt<br>4patterns, 8swings,<br>8groups             | 128Presets<br>360° Pan<br>95° Tilt<br>4patterns, 8swings,<br>8groups                 | 128Presets<br>360° Pan<br>95° Tilt<br>4patterns, 8swings,<br>8groups                 | 128Presets<br>360° Pan<br>95° Tilt<br>4patterns, 8swings,<br>8groups                | 128Presets<br>360° Pan<br>90° Tilt<br>4patterns, 8swings,<br>8groups                |
| <b>Day &amp; Night</b>       | Auto/Day/Night<br>IR Cut Filter)                                                  | Auto/Day/Night<br>(IR Cut Filter)                                                    | Auto/Day/Night<br>(IR Cut Filter)                                                    | Auto/Day/Night<br>(IR Cut Filter)                                                   |                                                                                     |

## Bracket & Accessories

| Product                                                                 |                                                                                     | Product                                                                |                                                                                      |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>B-270LW</b><br>(Wall Mount Bracket)<br><br>TCAM- 270L                |    | <b>B-270MR</b><br>(Corner Mount bracket)<br><br>TCAM-270M<br>TCAM-270H |   |
| <b>B-270LC</b><br>(Ceiling Mount Bracket)<br><br>TCAM-270L              |    | <b>B-270MS</b><br>(Sun Shield)<br><br>TCAM-270M<br>TCAM-270H           |   |
| <b>B-270MW</b><br>(Wall Mount Bracket)<br><br>TCAM-270M<br>TCAM-270H    |    | <b>TRM-1000</b><br>(10CH Rack Mount kit for Video Server)              |    |
| <b>B-270MC</b><br>(Ceiling Mount Bracket)<br><br>TCAM-270M<br>TCAM-270H |  | <b>Keyboard Controller</b>                                             |  |
| <b>B-270MP</b><br>(Pole Mount Bracket)<br><br>TCAM-270M<br>TCAM-270H    |  |                                                                        |                                                                                      |

## Software

| Software                                                                                                                                |                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CMS</b><br>(Central Monitoring System)<br><br>    | <ul style="list-style-type: none"> <li>• Up to 36CH Live view &amp; Recording</li> <li>• Up to 16CH Playback</li> <li>• Event monitoring</li> <li>• Alarm notification</li> <li>• Support multi-monitor</li> <li>• On screen PTZ control</li> </ul> |
| <b>True NVR</b><br>(Network Video Recorder)<br><br> | <ul style="list-style-type: none"> <li>• Up to 128 CH remote recording</li> <li>• Up to 16CH playback</li> <li>• Recording by schedule &amp; Event</li> <li>• Pre/ post-alarm recording</li> </ul>                                                  |
| <b>True Streamer</b><br><br>                       | <ul style="list-style-type: none"> <li>• Up to 128 input CH</li> <li>• Up to 1024 output CH</li> <li>• On-demand creation by client</li> <li>• Access through web browser</li> </ul>                                                                |



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