TRUEN

TRUEN DATASHEET

IP CAMERA
VIDEO SERVER

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TRUEN

TN-P5236N15

- Sony 1/2” Progressive Scan CMOS
- H.265 / H.264 / MJPEG
- Max 60FPS @ 1920 x 1080
- X36 Optical Zoom
- X16 Digital Zoom
- SRT (Secure Reliable Transport)
- RTSP/RTMP/MPEG-TS
- ONVIF (Profile S, Profile G)
- True WDR
- Hybrid CBR

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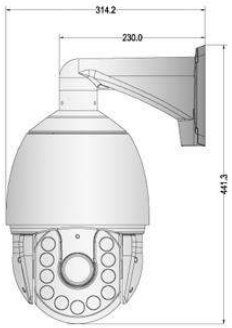
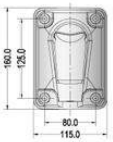
TN-P5236N15 Specifications

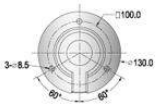
Basic Specifications	
Image Sensor	1/2” Sony CMOS Sensor
Minimum illumination	0 Lux (IR LED on), Color : 0.0045 Lux at 1/30sec, F1.5, 50IRE BW : 0.0003 Lux at 1/30sec, F1.5, 50IRE (IR LED off)
Lens (wide to tele)	36x optical zoom ; f= 6mm to 216mm
Shutter Speed	1/1 to 1/100000
Maximum Aperture Ratio	F1.5 ~ F4.8
Angle of View	Horizontal : 60.0°(wide) ~ 2.0°(tele)
Privacy masking	8 regions
Flip mode	Horizontal, Vertical
Image enhancement	AE, AWB, AGC, TDN, DNR,BLC, WDR, DSS, DIS, Defog, Color Enhancement
IR LED	11 pieces, 300m
Video	
Compression	H.265/H.264/MJPEG
Frame rate	Max 60fps @ 1920x1080
Bitrate	Primary : 32Kbps ~ 16Mbps, Secondary : 32Kbps ~ 4Mbps
Resolution	320x240 ~ 1920x1080
Streaming	Quad Streaming - Primary : H.265/H.264, Secondary x 3 : H.265/H.264/MJPEG
Bitrate Control	CBR / VBR / Hybrid / Adaptive CBR / Smart CBR
Burn-in OSD	Multi-lingual
Output	Composite
Audio	
Compression	G.711 / AAC(Option)
Sampling rate	G.711 : 8 KHz, AAC(Option): 32 kHz / 44.1 kHz / 48 kHz
Bitrate	G.711 : 64Kbps, AAC(Option): 64Kbps/128Kbps
Streaming	G.711 : Full-duplex, AAC(Option): Full-duplex
Input/Output	1 x Line-In (mono), 1 x Line-Out (mono)
PTZ Control	
Operating angle	Horizontal: 360°, Vertical: 210°(-15° ~ 195°)
Operating speed	PAN /TILT: Preset Max Speed(400°/sec) / Manual Max Speed(250 °/sec)
PTZ functionalities	Preset (500), Pattern (4), Swing (8), Group (8), Auto parking
Network	
Protocol	IPv4/v6, TCP, UDP, IGMP(Multicast), ICMP, DHCP, HTTP, HTTP, FTP, SNMP, SMTP, UPnP, WS-Discovery, Zero Configuration, NTP, SRT, MPEG-TS, RTP, RTSP, RTMP, DDNS
Security	Password protection, IP address filtering, HTTPS encryption
API	Truen protocol/SDK, ONVIF, PSIA, MPEG-TS
Interface	Ethernet 10/100 base-T (RJ-45)
Event / Alarm	
Event sources	Motion, Sensor input, Client disconnection, Intrusion, Line crossing, Tampering, Abnormal video detection, Face detection, Sound detection, Shock detection, User defined event
Event actions	Notification(E-mail), FTP, PTZ preset, Alarm control, Recording
External devices	4 x Sensor-In (dry contact, NO/NC), 2 x Alarm-Out (dry contact, NO) 1 x RS-485 port : PTZ control etc.
General	
Power Supply	Min AC24V/3.0A
Power Consumption	AC24V : 63W
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Operating Humidity	20% ~ 80% RH
Edge Storage	SD/SDHC/SDXC slot (Max 512GB)
Dimensions (W x H x D)	Ø226 x 364mm
Weight	5,020g

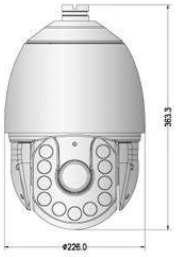
DIMENSION

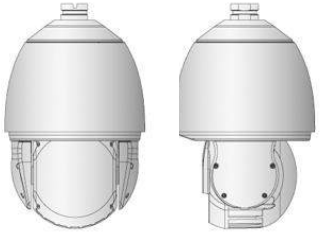
(mm)











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TRUEN

TN-P6236N15

- Sony 1/2” Progressive Scan CMOS
- H.265 / H.264 / MJPEG
- Max 60FPS @ 1920 x 1080
- X36 Optical Zoom
- X16 Digital Zoom
- SRT (Secure Reliable Transport)
- RTSP/RTMP/MPEG-TS
- ONVIF (Profile S, Profile G)
- True WDR
- Hybrid CBR

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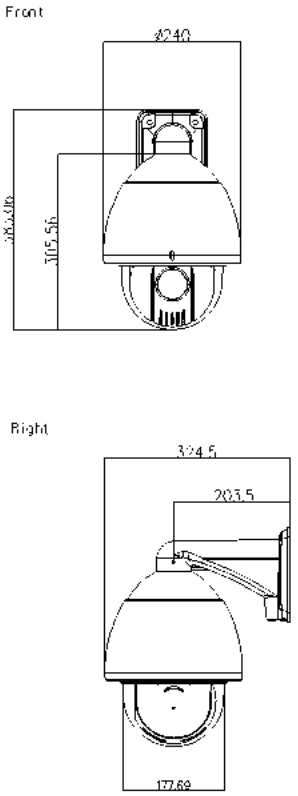
TN-P6236N15 Specifications

Basic Specifications	
Image Sensor	1/2” Sony CMOS Sensor
Minimum illumination	Color : 0.0045 Lux at 1/30sec, F1.6, 50IRE BW : 0.0003 Lux at 1/30sec, F1.6, 50IRE
Lens (wide to tele)	36x optical zoom ; f= 6mm to 216mm
Shutter Speed	1/1 to 1/100000
Maximum Aperture Ratio	F1.5 ~ F4.8
Angle of View	Horizontal : 60.0°(wide) ~ 2.0°(tele)
Privacy masking	8 regions
Flip mode	Horizontal, Vertical
Image enhancement	AE, AWB, AGC, TDN, DNR,BLC, WDR, DSS, DIS, Defog, Color Enhancement
IR LED	N/A
Video	
Compression	H.265/H.264/MJPEG
Frame rate	Max 60fps @ 1920x1080
Bitrate	Primary : 32Kbps ~ 16Mbps, Secondary : 32Kbps ~ 4Mbps
Resolution	320x240 ~ 1920x1080
Streaming	Quad Streaming - Primary : H.265/H.264, Secondary x 3 : H.265/H.264/MJPEG
Bitrate Control	CBR / VBR / Hybrid / Adaptive CBR / Smart CBR
Burn-in OSD	Multi-lingual
Output	Composite
Audio	
Compression	G.711 / AAC(Option)
Sampling rate	G.711 : 8 KHz, AAC(Option): 32 kHz / 44.1 kHz / 48 kHz
Bitrate	G.711 : 64Kbps, AAC(Option): 64Kbps/128Kbps
Streaming	G.711 : Full-duplex, AAC(Option): Full-duplex
Input/Output	1 x Line-In (mono), 1 x Line-Out (mono)
PTZ Control	
Operating angle	Horizontal: 360°, Vertical: 210°(-15° ~ 195°)
Operating speed	PAN /TILT: Preset Max Speed(540°/sec) / Manual Max Speed(450 °/sec)
PTZ functionalities	Preset (500), Pattern (4), Swing (8), Group (8), Auto parking
Network	
Protocol	IPv4/v6, TCP, UDP, IGMP(Multicast), ICMP, DHCP, HTTP, HTTP, FTP, SNMP, SMTP, UPnP, WS-Discovery, Zero Configuration, NTP, SRT, MPEG-TS, RTP, RTSP, RTMP, DDNS
Security	Password protection, IP address filtering, HTTPS encryption
API	Truen protocol/SDK, ONVIF, PSIA, MPEG-TS
Interface	Ethernet 10/100/1000 base-T (RJ-45)
Event / Alarm	
Event sources	Motion, Sensor input, Client disconnection, Intrusion, Line crossing, Tampering, Abnormal video detection, Face detection, Sound detection, Shock detection, User defined event
Event actions	Notification(E-mail), FTP, PTZ preset, Alarm control, Recording
External devices	4 x Sensor-In (dry contact, NO/NC), 2 x Alarm-Out (dry contact, NO) 1 x RS-485 port : PTZ control etc.
General	
Power Supply	Min AC24V/2.5A, PoE+(Power over Ethernet) : 802.3at
Power Consumption	AC24V : Max 35W, PoE+ : Max 29W
Operating Temperature	-30°C ~ 70°C
Operating Humidity	20% ~ 80% RH
Edge Storage	SD/SDHC/SDXC slot (Max 512GB)
Dimensions (W x H x D)	Ø240 x 305.6mm, Ø177.7
Weight	3,680g (without bracket)

DIMENSION

(mm)



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TRUEN

TN-B236N15

- Sony 1/2” Progressive Scan CMOS
- H.265 / H.264 / MJPEG
- Max 60FPS @ 1920 x 1080
- X36 Optical Zoom
- X16 Digital Zoom
- SRT (Secure Reliable Transport)
- RTSP/RTMP/MPEG-TS
- ONVIF (Profile S, Profile G)
- True WDR
- Hybrid CBR
- Dual Power (DC/PoE)

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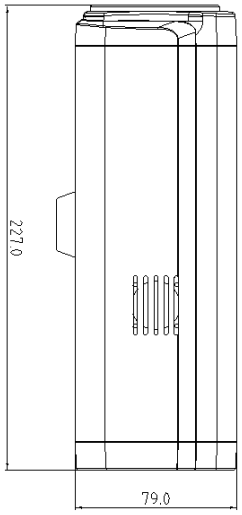
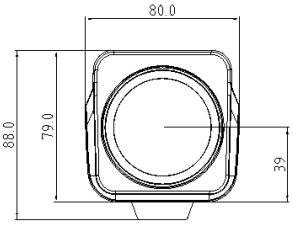
TN-B236N15 Specifications

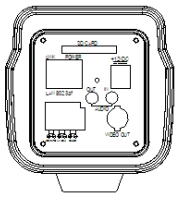
Basic Specifications	
Image Sensor	1/2” Sony CMOS Sensor
Lens type	AF, Auto Iris
Lens mount	Board type
Minimum illumination	Color : 0.048 Lux at 1/30sec, F1.6, 50IRE BW : 0.001 Lux at 1/30sec, F1.6, 50IRE
Lens (wide to tele)	36x optical zoom ; f= 6mm to 216mm
Shutter Speed	1/1 to 1/100000
Maximum Aperture Ratio	F1.5 ~ F4.8
Angle of View	Horizontal : 58.5°(wide) ~ 2.1°(tele)
Privacy masking	8 regions
Flip mode	Horizontal, Vertical
Image enhancement	AE, AWB,TDN, DNR, BLC, WDR, DSS, DIS, Defog, Color Enhancement
IR LED	N/A
Video	
Compression	H.265/H.264/MJPEG
Frame rate	Max 60fps @ 1920x1080
Bitrate	Primary : 32Kbps ~ 16Mbps, Secondary : 32Kbps ~ 4Mbps
Resolution	320x240 ~ 1920x1080
Streaming	Quad Streaming - Primary : H.265/H.264, Secondary x 3 : H.265/H.264/MJPEG
Bitrate Control	CBR / VBR / Hybrid / Adaptive CBR / Smart CBR
Burn-in OSD	Multi-lingual
Output	Composite
Audio	
Compression	G.711 / AAC(Option)
Sampling rate	G.711 : 8 KHz, AAC(Option): 32 kHz / 44.1 kHz / 48 kHz
Bitrate	G.711 : 64Kbps, AAC(Option): 64Kbps/128Kbps
Streaming	G.711 : Full-duplex, AAC(Option): Full-duplex
Input/Output	1 x Line-In (mono), 1 x Line-Out (mono)
Network	
Protocol	IPv4/v6, TCP, UDP, IGMP(Multicast), ICMP, DHCP, HTTP, HTTP, FTP, SNMP, SMTP, UPnP, WS-Discovery, Zero Configuration, NTP, SRT, MPEG-TS, RTP, RTSP, RTMP, DDNS
Security	Password protection, IP address filtering, HTTPS encryption
API	Truen protocol/SDK, ONVIF, PSIA, MPEG-TS
Interface	Ethernet 10/100 base-T (RJ-45)
Event / Alarm	
Event sources	Motion, Sensor input, Client disconnection
Event actions	Notification(E-mail), FTP, PTZ preset, Alarm control, Recording
External devices	1 x Sensor-In (dry contact, NO/NC) 1 x Alarm-Out (dry contact, NO) 1 x RS-485 port : PTZ control etc.
General	
Power Supply	Min DC12V/1.5A, PoE(Power over Ethernet) : 802.3af
Power Consumption	DC12V/PoE : Max DC12V/4.5W
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Storage Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Operating Humidity	20% ~ 80% RH
Storage Humidity	20% ~ 80% RH
Edge Storage	SD/SDHC/SDXC slot (Max 512GB)
Dimensions (W x H x D)	79.0mm X 227.0mm X 79.0mm
Weight	1,100g

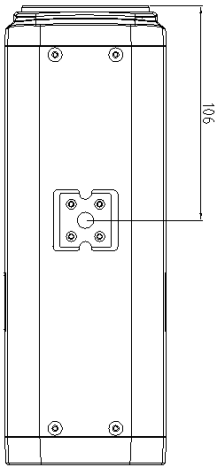
DIMENSION

(mm)









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TRUEN

TN-B2004

- Sony 1/1.9” CMOS
- H.265 / H.264 / MJPEG
- Max 60FPS @ 1920 x 1080
- SRT (Secure Reliable Transport)
- RTSP/RTMP/MPEG-TS
- ONVIF (Profile S, Profile G)
- True WDR
- Hybrid CBR

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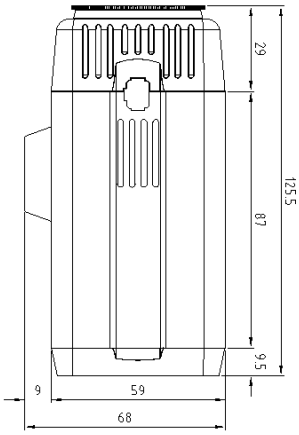
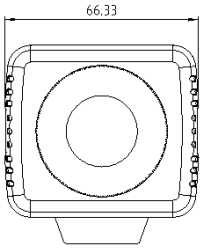
TN-B2004 Specifications

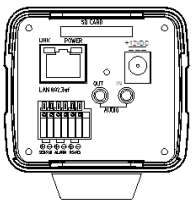
Basic Specifications	
Image Sensor	1/1.9” Sony CMOS Sensor
Lens type	Auto DC Iris
Lens mount	C/CS mount
Minimum illumination	0.32Lux(Color), 0.007Lux(B/W) @ 1/30s, 50IRE, F1.5
Lens (wide to tele)	Lens dependent
Shutter Speed	1/1 to 1/100000
Maximum Aperture Ratio	Lens dependent
Angle of View	Lens dependent
Privacy masking	4 regions
Flip mode	Horizontal, Vertical
Image enhancement	AWB, AE, NR, TDN, DSS, BLC, GAMMA, DPC, DEFOG, WDR
Video	
Compression	H.265/H.264/MJPEG
Frame rate	Max 60fps @ 1920x1080
Bitrate	Primary : 32Kbps ~ 16Mbps, Secondary x3 : 32Kbps ~ 4Mbps
Resolution	352x240 ~ 1920x1080
Streaming	Quad Streaming - Primary : H.265/H.264, Secondary x 3 : H.265/H.264/MJPEG
Bitrate Control	CBR / VBR / Hybrid / Adaptive CBR / Smart CBR
Burn-in OSD	Multi-lingual
Output	Composite
Audio	
Compression	G.711 / AAC(Option)
Sampling rate	G.711 : 8 KHz, AAC(Option): 32 kHz / 44.1 kHz / 48 kHz
Bitrate	G.711 : 64Kbps, AAC(Option): 64Kbps/128Kbps
Streaming	G.711 : Full-duplex, AAC(Option): Full-duplex
Input/Output	1 x Line-In (mono), 1 x Line-Out (mono)
Network	
Protocol	IPv4/v6, TCP, UDP, IGMP(Multicast), ICMP, DHCP, HTTP, HTTP, FTP, SNMP, SMTP, UPnP, WS-Discovery, Zero Configuration, NTP, SRT, MPEG-TS, RTP, RTSP, RTMP, DDNS
Security	Password protection, IP address filtering, HTTPS encryption
API	Truen protocol/SDK, ONVIF, PSIA, MPEG-TS
Interface	Ethernet 10/100 base-T (RJ-45)
Event / Alarm	
Event sources	Motion, Sensor input, Video loss, Client disconnection, Intrusion, Line crossing, Tampering, Abnormal video detection, Face detection, Sound detection, User defined event
Event actions	Notification(E-mail), FTP, PTZ preset, Alarm control, Recording
External devices	1 x Sensor-In (dry contact, NO/NC) 1 x Alarm-Out (dry contact, NO) 1 x RS-485 port : PTZ control etc.
General	
Power Supply	Min DC12V/1.5A, PoE(Power over Ethernet) : 802.3af
Power Consumption	DC12V/PoE : Max 6W
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Storage Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Operating Humidity	20% ~ 80% RH
Storage Humidity	20% ~ 80% RH
Edge Storage	SD/SDHC/SDXC slot (Max 512GB)
Dimensions (W x H x D)	66.60 X 127.20 X 67.20mm
Weight	340g

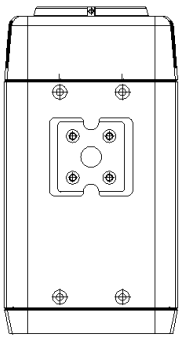
DIMENSION

(mm)









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TRUEN

TN-D32034R

- Sony 1/2” CMOS
- H.265 / H.264 / MJPEG
- Max 60FPS @ 1920 x 1080
- X27 Optical Zoom
- SRT (Secure Reliable Transport)
- RTSP/RTMP/MPEG-TS
- ONVIF (Profile S, Profile G)
- True WDR
- Hybrid CBR
- Dual Power (DC, PoE)

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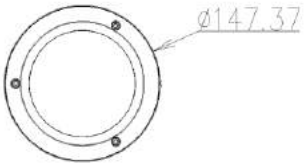
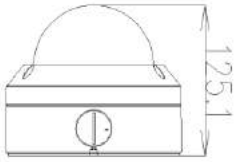
TN-D32034R Specifications

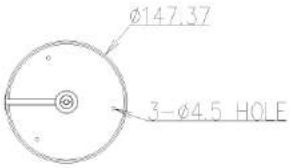
Basic Specifications	
Image Sensor	1/2” Sony CMOS Sensor
Lens type	Auto DC Iris, Zoom lens, IR cut filter
Lens mount	Board mount
Minimum illumination	0 Lux (IR LED on)
Lens (wide to tele)	2.7x optical zoom ; f = 3.6mm ~ 10mm
Shutter Speed	1 ~ 1/30 sec (B/W), 1/25 ~ 1/1,000 sec (Color)
Maximum Aperture Ratio	F1.5(Wide) ~ 1.9(Tele)
Angle of View	Horizontal : 98.7°(wide) ~ 60.4°(tele)
Privacy masking	4 regions
Flip mode	Horizontal, Vertical
Image enhancement	AF, AWB, AE, NR, TDN, DSS, BLC, HSBLC, GAMMA, DPC, DEFOG, WDR
IR LED	850nm, 8pcs, min 50m
Video	
Compression	H.265/H.264/MJPEG
Frame rate	Max 60fps @ 1920x1080
Bitrate	Primary : 32Kbps ~ 16Mbps, Secondary : 32Kbps ~ 4Mbps
Resolution	352x240 ~ 1920x1080
Streaming	Primary : H.265/H.264, Secondary x 2: H.265/H.264/MJPEG
Bitrate Control	CBR / VBR / Hybrid / Adaptive CBR / Smart CBR
Burn-in OSD	Multi-lingual
Output	N/A
Audio	
Compression	G.711 / AAC(Option)
Sampling rate	G.711 : 8 KHz, AAC(Option): 32 kHz / 44.1 kHz / 48 kHz
Bitrate	G.711 : 64Kbps, AAC(Option): 64Kbps/128Kbps
Streaming	G.711 : Full-duplex, AAC(Option): Full-duplex
Input/Output	1 x Line-In (mono, RCA type), 1 x Line-Out (mono, RCA type)
Network	
Protocol	IPv4/v6, TCP, UDP, IGMP(Multicast), ICMP, DHCP, HTTP, HTTP, FTP, SNMP, SMTP, UPnP, WS-Discovery, Zero Configuration, NTP, SRT, MPEG-TS, RTP, RTSP, RTMP, DDNS
Security	Password protection, IP address filtering, HTTPS encryption
API	Truen protocol/SDK, ONVIF, PSIA, MPEG-TS
Interface	Ethernet 10/100 base-T (RJ-45)
Event / Alarm	
Event sources	Motion, Sensor input, Client disconnection
Event actions	Notification(E-mail), FTP, PTZ preset, Alarm control, Recording
External devices	1 x Sensor-In (dry contact, NO/NC) 1 x Alarm-Out (dry contact, NO) 1 x RS-485 port : PTZ control etc.
General	
Power Supply	Min DC12V, PoE(Power over Ethernet) : 802.3af
Power Consumption	DC12V/PoE : Max 12W
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Storage Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Operating Humidity	20% ~ 80% RH
Storage Humidity	20% ~ 80% RH
Edge Storage	Micro SD
Dimensions (W x H x D)	Ø100 for vandal dome, Ø147 for bottom
Weight	980g

DIMENSION

(mm)







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TRUEN

TN-B3204U1R

- Sony 1/2” CMOS
- H.265/H.264/MJPEG
- Max 60FPS @ 1920 x 1080
- Built-in X4 Motorized Lens
- X10 Digital Zoom
- SRT (Secure Reliable Transport)
- RTSP/RTMP/MPEG-TS
- ONVIF (Profile S, Profile G)
- True WDR
- Hybrid CBR

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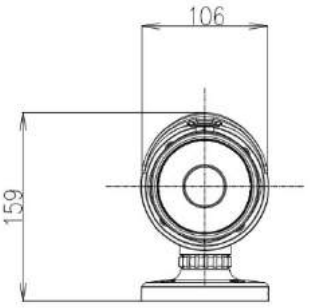
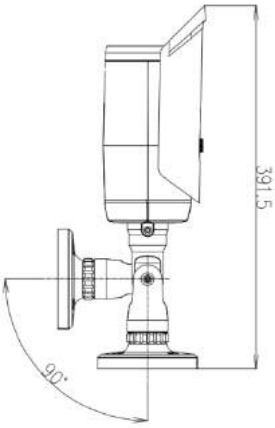
TN-B3204U1R Specifications

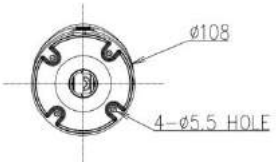
Basic Specifications	
Image Sensor	1/2” Sony CMOS Sensor
Lens type	Auto DC Iris, Zoom lens, IR cut filter
Lens mount	Board mount
Minimum illumination	Color : 0.05 Lux (1/15, 50IRE), BW : 0.00125 Lux (1/15, 50IRE)
Lens (wide to tele)	4x optical zoom ; f = 3.5 ~ 14.0mm
Shutter Speed	1/1 to 1/100000
Maximum Aperture Ratio	F3.5 ~ F.14.0
Angle of View	Horizontal : 58.5°(wide) ~ 3.1°(tele), Vertical : 33.2°(wide) ~ 1.7°(tele)
Privacy masking	4 regions
Flip mode	Horizontal, Vertical
Image enhancement	AF, AWB, AE, NR, TDN, DSS, BLC, GAMMA, DPC, DEFOG, WDR
IR LED	850nm, 4pcs, 30m
Video	
Compression	H.265/H.264/MJPEG
Frame rate	Max 60fps @ 1920x1080
Bitrate	Primary : 32Kbps ~ 16Mbps, Secondary : 32Kbps ~ 4Mbps
Resolution	320x240 ~ 1920x1080
Streaming	Quad Streaming Primary : H.265/H.264, Secondary x 3 : H.265/H.264/MJPEG
Bitrate Control	CBR / VBR / Hybrid / Adaptive CBR / Smart CBR
Burn-in OSD	Multi-lingual
Output	CVBS
Audio	
Compression	G.711 / AAC(Option)
Sampling rate	G.711 : 8 KHz, AAC(Option): 32 kHz / 44.1 kHz / 48 kHz
Bitrate	G.711 : 64Kbps, AAC(Option): 64Kbps/128Kbps
Streaming	G.711 : Full-duplex, AAC(Option): Full-duplex
Input/Output	1 x Line-In (mono), 1 x Line-Out (mono)
Network	
Protocol	IPv4/v6, TCP, UDP, IGMP(Multicast), ICMP, DHCP, HTTP, HTTP, FTP, SNMP, SMTP, UPnP, WS-Discovery, Zero Configuration, NTP, SRT, MPEG-TS, RTP, RTSP, RTMP, DDNS
Security	Password protection, IP address filtering, HTTPS encryption
API	Truen protocol/SDK, ONVIF, PSIA, MPEG-TS
Interface	Ethernet 10/100/1000 base-T (RJ-45)
Event / Alarm	
Event sources	Motion, Sensor input, Client disconnection, Intrusion, Line crossing, Tampering, Abnormal video detection, Face detection, Sound detection, User defined event
Event actions	Notification(E-mail), FTP, PTZ preset, Alarm control, Recording
External devices	1 x Sensor-In (dry contact, NO/NC) 1 x Alarm-Out (dry contact, NO) 1 x RS-485 port : PTZ control etc.
General	
Power Supply	Min DC12V/1.5A, PoE(Power over Ethernet) : 802.3af
Power Consumption	DC12V/PoE : Max 12W
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Storage Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Operating Humidity	20% ~ 80% RH
Storage Humidity	20% ~ 80% RH
Edge Storage	SD/SDHC/SDXC slot (Max 512GB)
Dimensions (W x H x D)	Ø108 x 391.5(L) [mm]
Weight	1,320g

DIMENSION

(mm)







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TRUEN

TN-B3218K5R

- Sony 1/2” CMOS
- H.265/H.264/MJPEG
- Max 60FPS @ 1920 x 1080
- Built-in X18 Motorized Lens
- X10 Digital Zoom
- SRT (Secure Reliable Transport)
- RTSP/RTMP/MPEG-TS
- ONVIF (Profile S, Profile G)
- True WDR
- Hybrid CBR
- Dual Power (DC/PoE)

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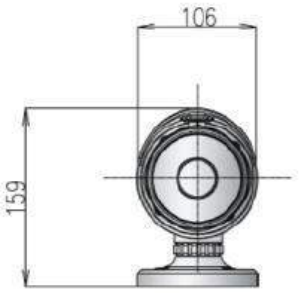
ONVIF SRT READY SRT ALLIANCE SECURE RELIABLE TRANSPORT

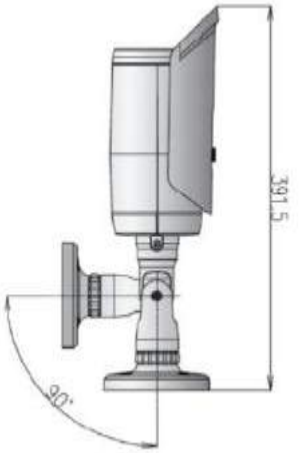
TN-B3218K5R Specifications

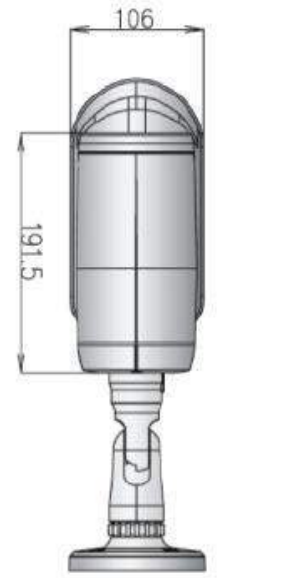
Basic Specifications	
Image Sensor	1/2” Sony CMOS Sensor
Lens type	Auto DC Iris, Zoom lens, IR cut filter
Lens mount	Board mount
Minimum illumination	Color : 0.03 Lux (1/15, 50IRE), BW : 0Lux IR ON
Lens (wide to tele)	18x optical zoom ; f = 6.8~120mm
Shutter Speed	1/1 to 1/100000
Maximum Aperture Ratio	F1.61 ~ F4.13
Angle of View	Horizontal : 55.5°(wide) ~ 3.56°(tele)
Privacy masking	4 regions
Flip mode	Horizontal, Vertical
Image enhancement	AF, AWB, AE, NR, TDN, DSS, BLC, GAMMA, DPC, DEFOG, WDR
IR LED	850nm, 8pcs, 70m
Video	
Compression	H.265/H.264/MJPEG
Frame rate	Max 60fps @ 1920x1080
Bitrate	Primary : 32Kbps ~ 16Mbps, Secondary x3 : 32Kbps ~ 4Mbps
Resolution	320x240 ~ 1920x1080
Streaming	Quad Streaming Primary : H.265/H.264, Secondary x 3 : H.265/H.264/MJPEG
Bitrate Control	CBR / VBR / Hybrid / Adaptive CBR / Smart CBR
Burn-in OSD	Multi-lingual
Output	N/A
Audio	
Compression	G.711 / AAC(Option)
Sampling rate	G.711 : 8 KHz, AAC(Option): 32 kHz / 44.1 kHz / 48 kHz
Bitrate	G.711 : 64Kbps, AAC(Option): 64Kbps/128Kbps
Streaming	G.711 : Full-duplex, AAC(Option): Full-duplex
Input/Output	1 x Line-In (mono), 1 x Line-Out (mono)
Network	
Protocol	IPv4/v6, TCP, UDP, IGMP(Multicast), ICMP, DHCP, HTTP, HTTP, FTP, SNMP, SMTP, UPnP, WS-Discovery, Zero Configuration, NTP, SRT, MPEG-TS, RTP, RTSP, RTMP, DDNS
Security	Password protection, IP address filtering, HTTPS encryption
API	Truen protocol/SDK, ONVIF, PSIA, MPEG-TS
Interface	Ethernet 10/100/1000 base-T (RJ-45)
Event / Alarm	
Event sources	Motion, Sensor input, Client disconnection, Intrusion, Line crossing, Tampering, Abnormal video detection, Face detection, Sound detection, User defined event
Event actions	Notification(E-mail), FTP, PTZ preset, Alarm control, Recording
External devices	1 x Sensor-In (dry contact, NO/NC) 1 x Alarm-Out (dry contact, NO) 1 x RS-485 port : PTZ control etc.
General	
Power Supply	Min DC12V/1.5A, PoE(Power over Ethernet) : 802.3af
Power Consumption	DC12V/PoE : Max 15W
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Storage Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Operating Humidity	20% ~ 80% RH
Storage Humidity	20% ~ 80% RH
Edge Storage	SD/SDHC/SDXC slot (Max 512GB)
Dimensions (W x H x D)	Ø120.5 x 391.5(L) [mm]
Weight	1,569g

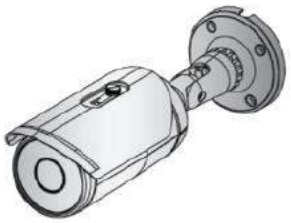
DIMENSION

(mm)









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TRUEN

TCAM-4300H

- Sony 1/2.9” CMOS
- H.265 / H.264 / MJPEG
- Max 30FPS @ 1920 x 1080
- SRT (Secure Reliable Transport)
- RTSP/RTMP/MPEG-TS
- ONVIF (Profile S, Profile G)
- True WDR
- Hybrid CBR
- Dual Power (DC/PoE)

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TCAM-4300H Specifications

Basic Specifications	
Image Sensor	1/2.9” Sony CMOS Sensor
Lens type	Auto DC iris, Varifocal Lens, IR cut filter
Lens mount	C/CS mount
Minimum illumination	0.9Lux(color), 0.07Lux(B/W) @ 1/30s, 50IRE, F1.5
Lens (wide to tele)	Lens dependent
Shutter Speed	1/1 to 1/100000
Maximum Aperture Ratio	Lens dependent
Angle of View	Lens dependent
Privacy masking	4 regions
Flip mode	Horizontal, Vertical
Image enhancement	AWB, AE, NR, TDN, DSS, BLC, GAMMA, DPC, DEFOG, WDR

Video	
Compression	H.265/H.264/MJPEG
Frame rate	Max 30fps @ 1920x1080
Bitrate	Primary : 32Kbps ~ 16Mbps, Secondary : 32Kbps ~ 4Mbps
Resolution	320x240 ~ 1920x1080
Streaming	Quad Streaming - Primary : H.265/H.264, Secondary x 2 : H.265/H.264/MJPEG
Bitrate Control	CBR / VBR / Hybrid / Adaptive CBR / Smart CBR
Burn-in OSD	Multi-lingual
Output	CVBS

Audio	
Compression	G.711 / AAC(Option)
Sampling rate	G.711 : 8 KHz, AAC(Option): 32 kHz / 44.1 kHz / 48 kHz
Bitrate	G.711 : 64Kbps, AAC(Option): 64Kbps/128Kbps
Streaming	G.711 : Full-duplex, AAC(Option): Full-duplex
Input/Output	1 x Line-In (mono), 1 x Line-Out (mono)

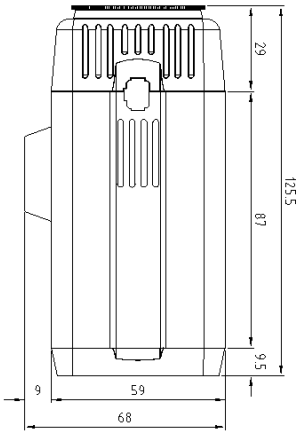
Network	
Protocol	IPv4/v6, TCP, UDP, IGMP(Multicast), ICMP, DHCP, HTTP, HTTP, FTP, SNMP, SMTP, UPnP, WS-Discovery, Zero Configuration, NTP, SRT, MPEG-TS, RTP, RTSP, RTMP, DDNS
Security	Password protection, IP address filtering, HTTPS encryption
API	Truen protocol/SDK, ONVIF, PSIA, MPEG-TS
Interface	Ethernet 10/100 base-T (RJ-45)

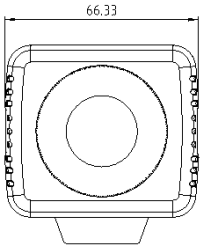
Event / Alarm	
Event sources	Motion, Sensor input, Client disconnection
Event actions	Notification(E-mail), FTP, PTZ preset, Alarm control, Recording
External devices	1 x Sensor-In (dry contact, NO/NC) 1 x Alarm-Out (dry contact, NO) 1 x RS-485 port : PTZ control etc.

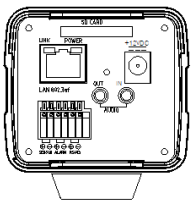
General	
Power Supply	Min DC12V, PoE(Power over Ethernet) : 802.3af
Power Consumption	DC12V/PoE : Max 6W
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Storage Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Operating Humidity	20% ~ 80% RH
Storage Humidity	20% ~ 80% RH
Edge Storage	SD/SDHC/SDXC slot (Max 512GB)
Dimensions (W x H x D)	66.60 X 127.20 X 67.20mm
Weight	376g

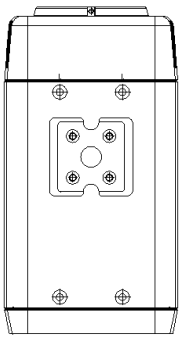
DIMENSION

(mm)









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TRUEN

TCAM-6522HIR

- Sony 1/2.9” CMOS
- H.265 / H.264 / MJPEG
- Max 30FPS @ 1920 x 1080
- Built-in X3 Motorized Lens
- SRT (Secure Reliable Transport)
- RTSP/RTMP/MPEG-TS
- ONVIF (Profile S, Profile G)
- True WDR
- Hybrid CBR

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TCAM-6522HIR Specifications

Basic Specifications	
Image Sensor	1/2.9” Sony CMOS Sensor
Lens type	Auto DC Iris, Zoom lens, IR cut filter
Lens mount	Board mount
Minimum illumination	0 Lux (IR LED on)
Lens (wide to tele)	3x optical zoom ; f = 3.2mm ~ 10mm
Shutter Speed	1/1 ~ 1/100,000 sec
Maximum Aperture Ratio	F1.6
Angle of View	Horizontal : 104.2°(wide) ~ 31.16°(tele), Vertical : 55.44°(wide) ~ 17.62°(tele)
Privacy masking	4 regions
Flip mode	Horizontal, Vertical
Image enhancement	AF, AWB, AE, NR, TDN, DSS, BLC, HSBLC, GAMMA, DPC, DEFOG, WDR
IR LED	850nm, 4pcs, min 30m

Video	
Compression	H.265/H.264/MJPEG
Frame rate	Max 30fps @ 1920x1080
Bitrate	Primary : 32Kbps ~ 16Mbps, Secondary : 32Kbps ~ 4Mbps
Resolution	352x240 ~ 1920x1080
Streaming	Primary : H.265/H.264, Secondary x 2: H.265/H.264/MJPEG
Bitrate Control	CBR / VBR / Hybrid / Adaptive CBR / Smart CBR
Burn-in OSD	Multi-lingual
Output	N/A

Audio	
Compression	G.711 / AAC(Option)
Sampling rate	G.711 : 8 KHz, AAC(Option): 32 kHz / 44.1 kHz / 48 kHz
Bitrate	G.711 : 64Kbps, AAC(Option): 64Kbps/128Kbps
Streaming	G.711 : Full-duplex, AAC(Option): Full-duplex
Input/Output	1 x Line-In (mono, RCA type), 1 x Line-Out (mono, RCA type)

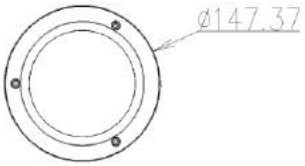
Network	
Protocol	IPv4/v6, TCP, UDP, IGMP(Multicast), ICMP, DHCP, HTTP, HTTP, FTP, SNMP, SMTP, UPnP, WS-Discovery, Zero Configuration, NTP, SRT, MPEG-TS, RTP, RTSP, RTMP, DDNS
Security	Password protection, IP address filtering, HTTPS encryption
API	Truen protocol/SDK, ONVIF, PSIA, MPEG-TS
Interface	Ethernet 10/100 base-T (RJ-45)

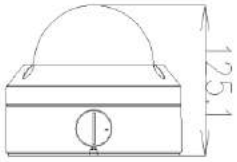
Event / Alarm	
Event sources	Motion, Sensor input, Client disconnection
Event actions	Notification(E-mail), FTP, PTZ preset, Alarm control, Recording
External devices	1 x Sensor-In (dry contact, NO/NC) 1 x Alarm-Out (dry contact, NO) 1 x RS-485 port : PTZ control etc.

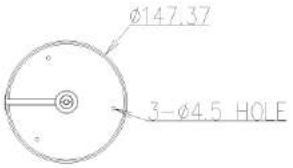
General	
Power Supply	Min DC12V, PoE(Power over Ethernet) : 802.3af
Power Consumption	DC12V/PoE : Max 12W
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Storage Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Operating Humidity	20% ~ 80% RH
Storage Humidity	20% ~ 80% RH
Edge Storage	Micro SD
Dimensions (W x H x D)	Ø100 for vandal dome, Ø147 for bottom
Weight	980g

DIMENSION

(mm)







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TRUEN

TCAM-4322HBR

- Sony 1/2.9” CMOS
- H.265 / H.264 / MJPEG
- Max 30FPS @ 1920 x 1080
- Built-in X3 Motorized Lens
- X10 Digital Zoom
- SRT (Secure Reliable Transport)
- RTSP/RTMP/MPEG-TS
- ONVIF (Profile S, Profile G)
- True WDR
- Hybrid CBR
- Dual Power (DC/PoE)

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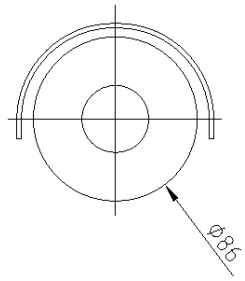
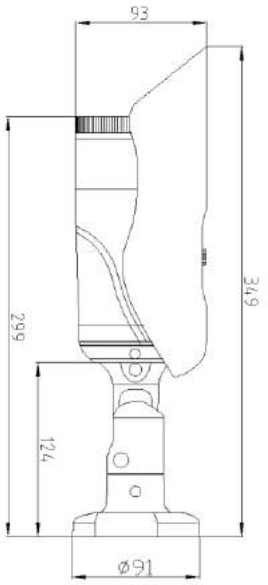
TCAM-4322HBR Specifications

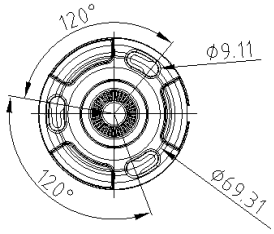
Basic Specifications	
Image Sensor	1/2.9” Sony CMOS Sensor
Lens type	Auto DC Iris, Zoom lens, IR cut filter
Lens mount	Board mount
Minimum illumination	0 Lux (IR LED on)
Lens (wide to tele)	3x optical zoom ; f = 3.2mm ~ 10mm
Shutter Speed	1/1 to 1/100000
Maximum Aperture Ratio	F1.6
Angle of View	Horizontal : 104.2°(wide) ~ 31.16°(tele), Vertical : 55.44°(wide) ~ 17.62°(tele)
Privacy masking	4 regions
Flip mode	Horizontal, Vertical
Image enhancement	AWB, AE, NR, TDN, DSS, BLC, GAMMA, DPC, DEFOG, WDR
IR LED	850mm, 4pcs, 30m
Video	
Compression	H.265/H.264/MJPEG
Frame rate	Max 30fps @ 1920x1080
Bitrate	Primary : 32Kbps ~ 16Mbps, Secondary x3 : 32Kbps ~ 4Mbps
Resolution	320x240 ~ 1920x1080
Streaming	Primary : H.265/H.264, Secondary x 2 : H.265/H.264/MJPEG
Bitrate Control	CBR / VBR / Hybrid / Adaptive CBR / Smart CBR
Burn-in OSD	Multi-lingual
Output	N/A
Audio	
Compression	G.711 / AAC(Option)
Sampling rate	G.711 : 8 KHz, AAC(Option): 32 kHz / 44.1 kHz / 48 kHz
Bitrate	G.711 : 64Kbps, AAC(Option): 64Kbps/128Kbps
Streaming	G.711 : Full-duplex, AAC(Option): Full-duplex
Input/Output	1 x Line-In (mono, RCA type), 1 x Line-Out (mono, RCA type)
Network	
Protocol	IPv4/v6, TCP, UDP, IGMP(Multicast), ICMP, DHCP, HTTP, HTTP, FTP, SNMP, SMTP, UPnP, WS-Discovery, Zero Configuration, NTP, SRT, MPEG-TS, RTP, RTSP, RTMP, DDNS
Security	Password protection, IP address filtering, HTTPS encryption
API	Truen protocol/SDK, ONVIF, PSIA, MPEG-TS
Interface	Ethernet 10/100 base-T (RJ-45)
Event / Alarm	
Event sources	Motion, Sensor input, Client disconnection
Event actions	Notification(E-mail), FTP, PTZ preset, Alarm control, Recording
External devices	1 x Sensor-In (dry contact, NO/NC) 1 x Alarm-Out (dry contact, NO) 1 x RS-485 port : PTZ control etc.
General	
Power Supply	Min DC12V/1.5A, PoE(Power over Ethernet) : 802.3af
Power Consumption	DC12V/PoE : Max 12W
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Storage Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Operating Humidity	20% ~ 80% RH
Storage Humidity	20% ~ 80% RH
Edge Storage	SD/SDHC/SDXC slot (Max 256GB) / Connector : Micro-Coaxial
Dimensions (W x H x D)	Ø85.7 x 297.9(L) [mm]
Weight	1,600g

DIMENSION

(mm)







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TRUEN

TCAM-4732HBR

- Sony 1/2.9” CMOS
- H.265 / H.264 / MJPEG
- Max 30FPS @ 1920 x 1080
- Built-in X20 Motorized Lens
- X10 Digital Zoom
- SRT (Secure Reliable Transport)
- RTSP/RTMP/MPEG-TS
- ONVIF (Profile S, Profile G)
- True WDR
- Hybrid CBR
- Dual Power (DC/PoE)

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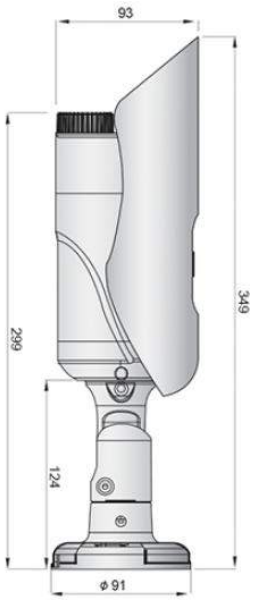
TCAM-4732HBR Specifications

Basic Specifications	
Image Sensor	1/2.9” Sony CMOS Sensor
Lens type	Auto DC Iris, Zoom lens, IR cut filter
Lens mount	Board mount
Minimum illumination	0 Lux (IR LED on)
Lens (wide to tele)	20x optical zoom ; f = 5.0 ~ 100mm
Shutter Speed	1/1 to 1/100000
Maximum Aperture Ratio	F1.5 ~ F.3.2
Angle of View	Horizontal : 58.5°(wide) ~ 3.1°(tele), Vertical : 33.2°(wide) ~ 1.7°(tele)
Privacy masking	4 regions
Flip mode	Horizontal, Vertical
Image enhancement	AWB, AE, NR, TDN, DSS, BLC, GAMMA, DPC, DEFOG, WDR
IR LED	850mm, 8pcs, 50m
Video	
Compression	H.265/H.264/MJPEG
Frame rate	Max 30fps @ 1920x1080
Bitrate	Primary : 32Kbps ~ 16Mbps, Secondary x3 : 32Kbps ~ 4Mbps
Resolution	320x240 ~ 1920x1080
Streaming	Primary : H.265/H.264, Secondary x 2 : H.265/H.264/MJPEG
Bitrate Control	CBR / VBR / Hybrid / Adaptive CBR / Smart CBR
Burn-in OSD	Multi-lingual
Output	N/A
Audio	
Compression	G.711 / AAC(Option)
Sampling rate	G.711 : 8 KHz, AAC(Option): 32 kHz / 44.1 kHz / 48 kHz
Bitrate	G.711 : 64Kbps, AAC(Option): 64Kbps/128Kbps
Streaming	G.711 : Full-duplex, AAC(Option): Full-duplex
Input/Output	1 x Line-In (mono, RCA type), 1 x Line-Out (mono, RCA type)
Network	
Protocol	IPv4/v6, TCP, UDP, IGMP(Multicast), ICMP, DHCP, HTTP, HTTP, FTP, SNMP, SMTP, UPnP, WS-Discovery, Zero Configuration, NTP, SRT, MPEG-TS, RTP, RTSP, RTMP, DDNS
Security	Password protection, IP address filtering, HTTPS encryption
API	Truen protocol/SDK, ONVIF, PSIA, MPEG-TS
Interface	Ethernet 10/100 base-T (RJ-45)
Event / Alarm	
Event sources	Motion, Sensor input, Client disconnection
Event actions	Notification(E-mail), FTP, PTZ preset, Alarm control, Recording
External devices	1 x Sensor-In (dry contact, NO/NC) 1 x Alarm-Out (dry contact, NO) 1 x RS-485 port : PTZ control etc.
General	
Power Supply	Min DC12V, PoE(Power over Ethernet) : 802.3af
Power Consumption	DC12V/PoE : Max 12W
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Storage Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Operating Humidity	20% ~ 80% RH
Storage Humidity	20% ~ 80% RH
Edge Storage	SD/SDHC/SDXC slot (Max 512GB)
Dimensions (W x H x D)	Ø85.7 x 297.9(L) [mm]
Weight	1,600g

DIMENSION

(mm)



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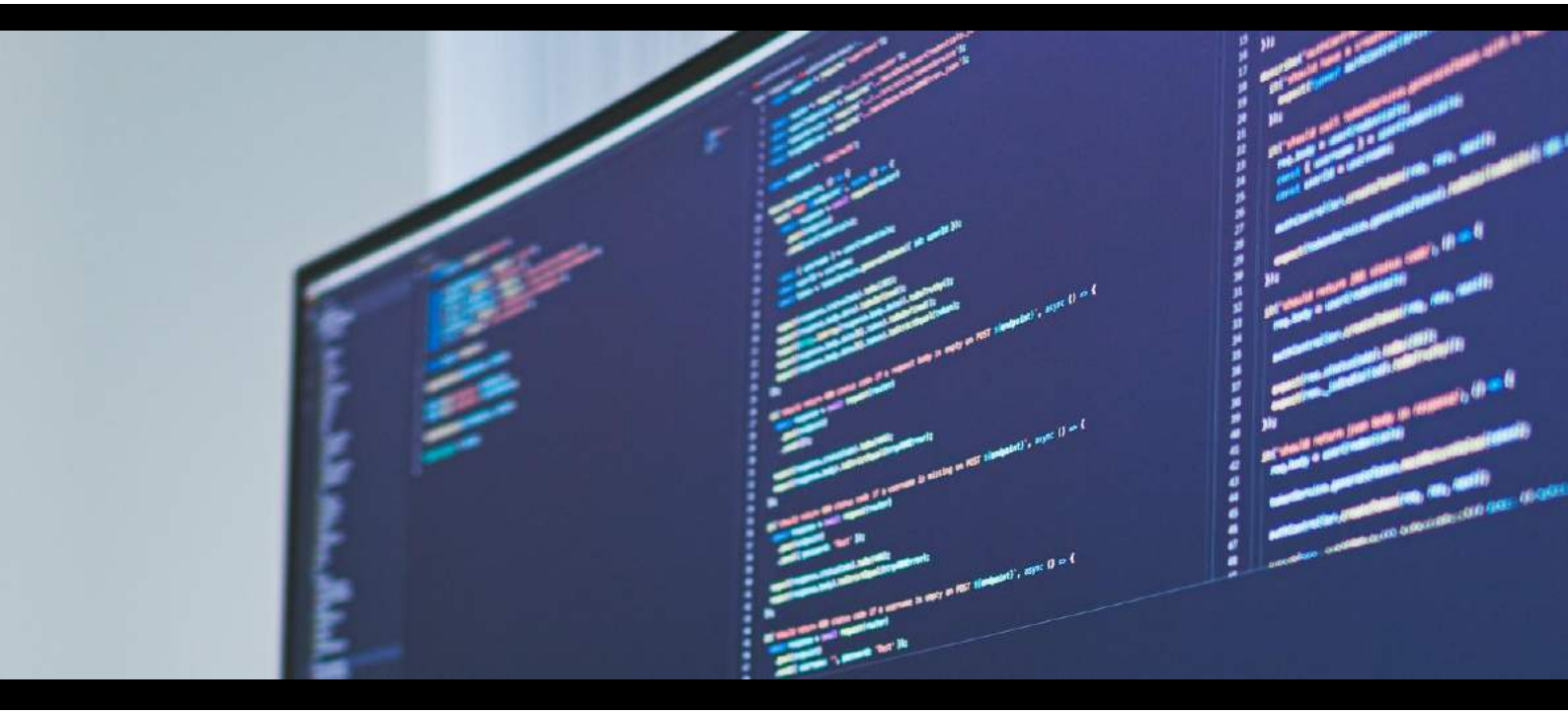

TCS-8500

- H.265 / H.264 / MJPEG
- Max 60FPS @ 3840 x 2160
- HDMI I/O
- SRT (Secure Reliable Transport)
- RTSP/RTP/RTMP/MPEG-TS
- ONVIF (Profile S, Profile G)
- Embedded Audio
- USB recording
- Dual Power (DC/PoE)

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TCS-8500 Specifications

SYSTEM	Encoder / Decoder

Video	
Compression	H.265, H.264, MJPEG
Bitrate	Primary : 32Kbps ~ 16Mbps, Secondary : 32Kbps ~ 4Mbps
Framerate	Max 60fps @3840x2160
Resolution	320x240 ~ 3840x2160
Streaming	Quad Streaming - Primary : H.265, H.264, Secondary x 3 : H.265/H.264/MJPEG
Burn-in OSD	Multi-lingual
Input	1 x HDMI (Type A, 2.0), HDMI RX
Output	1 x HDMI (Type A, 2.0), HDMI RX

Audio	
Compression	G.711 / AAC(Option)
Sampling rate	G.711 : 8 KHz, AAC(Option): 32 kHz / 44.1 kHz / 48 kHz
Bitrate	G.711 : 64Kbps, AAC(Option): 64Kbps/128Kbps
Streaming	G.711 : Full-duplex, AAC(Option): Full-duplex
Input	1 x Line-In(Mini-Stereo) or HDMI(Stereo)
Output	1 x Line-Out (Mini-Stereo) or HDMI(Input Bypass)

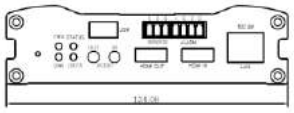
Network	
Interface	Ethernet 10/100/1000base-T (RJ-45)
Protocol	IPv4/v6, TCP, UDP, IGMP(Multicast), ICMP, DHCP, HTTP, HTTPS, RTP, RTSP, RTMP, FTP, SNMP, SMTP, UPnP, WS-Discovery, Zero, Configuration, NTP, DDNS, ONVIF, PSIA, MPEG-TS, SRT (Secure Reliable Transport)
Security	Password protection, IP address filtering, HTTPS encryption
API	Truen protocol/SDK, ONVIF, PSIA, MPEG-TS

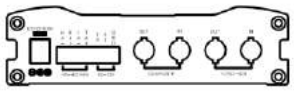
Event / Alarm	
Event sources	Motion, Sensor input, Video loss, Client disconnection
Event actions	Notification(E-mail), FTP, PTZ preset, Alarm control, Recording

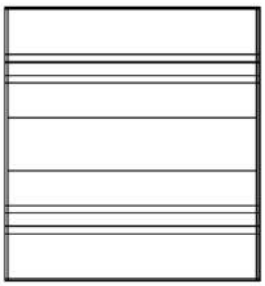
General	
Housing	Aluminum
Certifications	CE, FCC, KCC, RoHS
External devices	2 x Sensor-In (Dry contact, NO/NC) 2 x Alarm-Out (Dry contact, NO) 1 x RS-232 port 1 x RS-422/485 port 1 x Buzzer (88dB min)
Power Supply	Min DC12V/2.0A, PoE(Power over Ethernet): 802.3af
Power Consumption	DC12V/PoE : Max 6.5W
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Storage Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Operating Humidity	20% ~ 80% RH
Storage Humidity	20% ~ 80% RH
Edge Storage	1 x USB 3.0port
Dimensions (W x H x D)	134.08(W) X 125(D) X 36.87(H)mm
Weight	459.4g

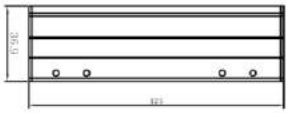
DIMENSION

(mm)









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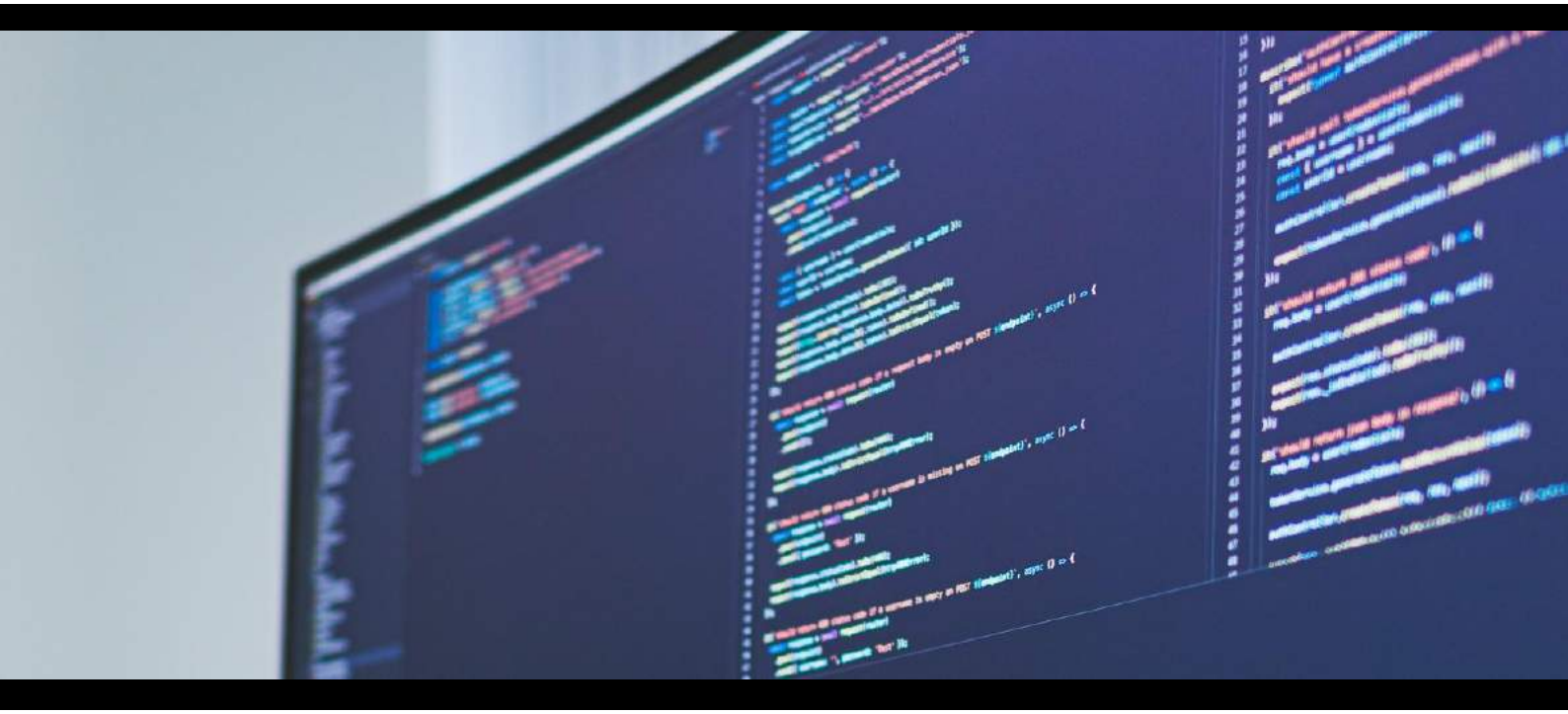

TCS-3000

- H.264 / MJPEG
- Max 60FPS @ 1920 x 1080
- HDMI / 3G-SDI / Composite I/O
- SRT (Secure Reliable Transport)
- RTSP/RTMP/MPEG-TS
- ONVIF (Profile S, Profile G)
- Embedded Audio
- Hybrid CBR
- Dual Power (DC/PoE)

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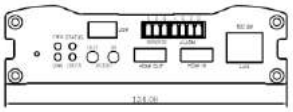
ONVIF SRT READY SRT ALLIANCE SECURE RELIABLE TRANSPORT

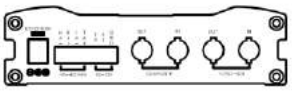
TCS-3000 Specifications

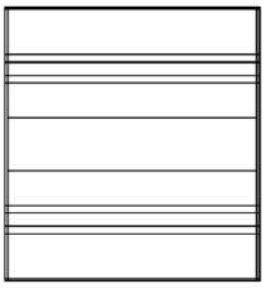
SYSTEM	Encoder
Video	
Compression	H.264, MJPEG
Bitrate	Primary : 32Kbps ~ 16Mbps, Secondary : 32Kbps ~ 4Mbps
Resolution	320x240 ~ 1920x1080
Streaming	Primary : H.264, Secondary x 3 : H.264/MJPEG
Burn-in OSD	Multi-lingual
Input	1 x HDMI (Type A) 1 x Composite (BNC) 1 x 3G-SDI (BNC)
Output	1 x HDMI (Type A), Input Bypass 1 x Composite (BNC), Input Bypass 1 x 3G-SDI (BNC), Input Bypass
Audio	
Compression	G.711 / AAC
Sampling rate	G.711 : 8 KHz, AAC : 32 kHz / 44.1 kHz / 48 kHz
Bitrate	G.711 : 64Kbps, AAC: 64Kbps/128Kbps
Streaming	G.711 : Full-duplex, AAC : Full-duplex
Input	1 x Line-In (stereo, mini-stereo type)
Output	1 x Line-Out (stereo, mini-stereo type)
Network	
Interface	Ethernet 10/100/1000base-T (RJ-45)
Protocol	IPv4/v6, TCP, UDP, IGMP(Multicast), ICMP, DHCP, HTTP, HTTPS, RTP, RTSP, RTMP, FTP, SNMP, SMTP, UPnP, WS-Discovery, Zero, Configuration, NTP, DDNS, ONVIF, PSIA, MPEG-TS, SRT (Secure Reliable Transport)
Security	Password protection, IP address filtering, HTTPS encryption
API	Truen protocol/SDK
Event / 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)
Power Supply	Min DC12V/1.0A, PoE(Power over Ethernet): 802.3af
Power Consumption	DC12V/PoE : Max 9.6W
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Storage Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Operating Humidity	20% ~ 80% RH
Storage Humidity	20% ~ 80% RH
Edge Storage	1 x USB 2.0 port
Dimensions (W x H x D)	134.08(W) X 125(D) X 33(H)mm
Weight	470g

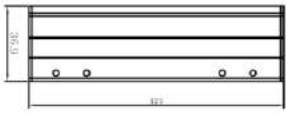
DIMENSION

(mm)









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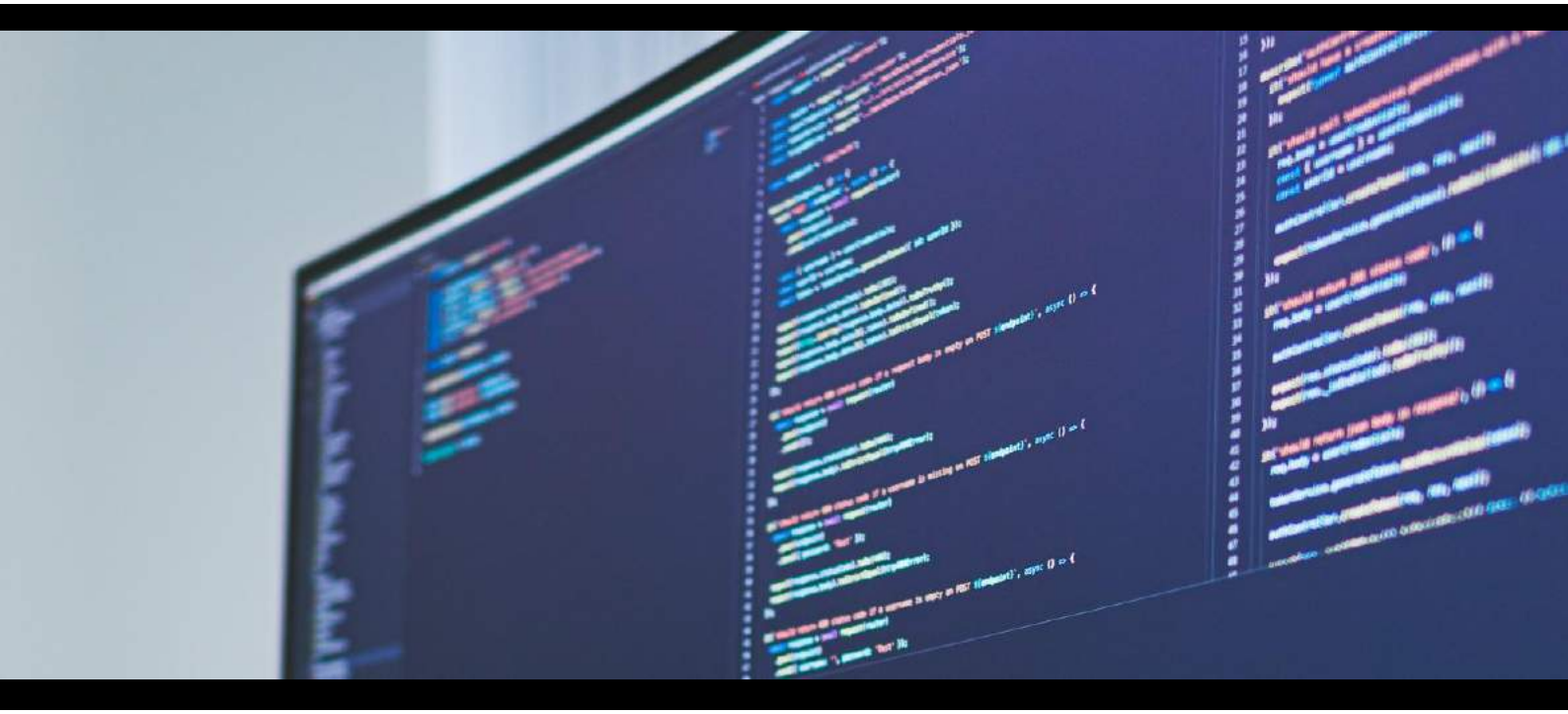

TCS-1500

- H.264 / MJPEG
- Max 60FPS @ 1920 x 1080
- HDMI / 3G-SDI / Composite Output
- SRT (Secure Reliable Transport)
- RTSP/RTP/RTMP
- ONVIF (Profile S, Profile G)
- Embedded Audio
- USB recording
- Dual Power (DC/PoE)

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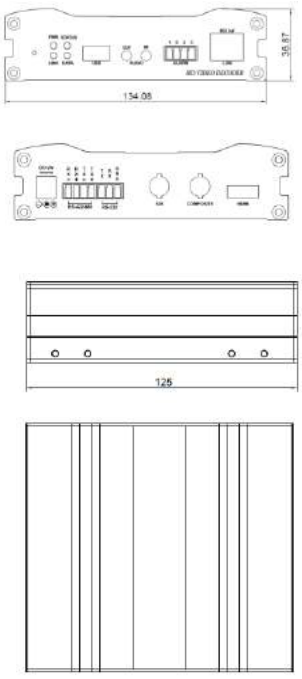
TCS-1500 Specifications

SYSTEM	Decoder
Video	
Compression	H.264, MJPEG
Bitrate	Primary : 32Kbps ~ 16Mbps, Secondary : 32Kbps ~ 4Mbps
Framerate	Max 60fps @1920*1080
Resolution	320x240 ~ 1920x1080
Streaming	Quad Streaming - Primary : H.264, Secondary x 3 : H.264/MJPEG
Burn-in OSD	Multi-lingual
Output	1 x HDMI (Type A) 1 x Composite (BNC) 1 x 3G-SDI (BNC)
Audio	
Compression	G.711 / AAC(Option)
Sampling rate	G.711 : 8 KHz, AAC(Option): 32 kHz / 44.1 kHz / 48 kHz
Bitrate	G.711 : 64Kbps, AAC(Option): 64Kbps/128Kbps
Streaming	G.711 : Full-duplex, AAC(Option): Full-duplex
Input	1 x Line-In (stereo, mini-stereo type)
Output	1 x Line-Out (stereo, mini-stereo type) / Embedded Audio
Network	
Interface	Ethernet 10/100/1000base-T (RJ-45)
Protocol	IPv4/v6, TCP, UDP, IGMP(Multicast), ICMP, DHCP, HTTP, HTTPS, RTP, RTSP, RTMP, FTP, SNMP, SMTP, UPnP, WS-Discovery, Zero, Configuration, NTP, DDNS, ONVIF, PSIA, MPEG-TS, SRT (Secure Reliable Transport)
Security	Password protection, IP address filtering, HTTPS encryption
API	Truen protocol/SDK
Event / 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 Alarm-Out (Dry contact, NO) 1 x RS-232 port 1 x RS-422/485 port 1 x Buzzer (88dB min)
Power Supply	Min DC12V/1.0A, PoE(Power over Ethernet): 802.3af
Power Consumption	DC12V/PoE : Max 680mA
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Storage Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Operating Humidity	20% ~ 80% RH
Storage Humidity	20% ~ 80% RH
Edge Storage	1 x USB 2.0 port
Dimensions (W x H x D)	134.08(W) X 125(D) X 33(H)mm
Weight	470g

DIMENSION

(mm)



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