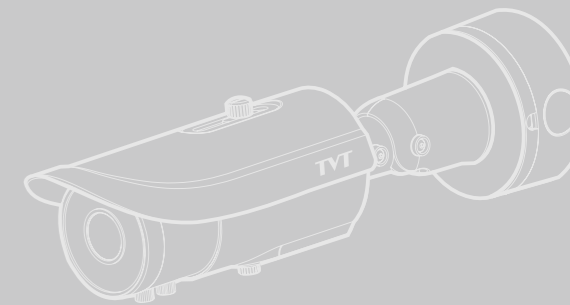
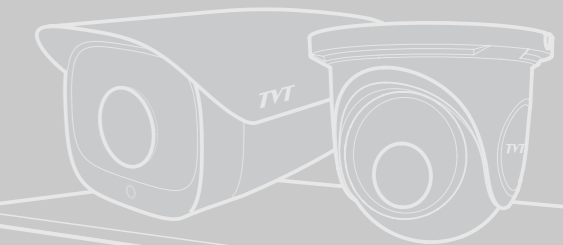
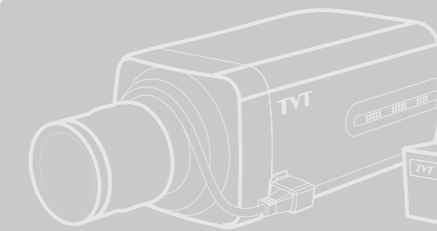
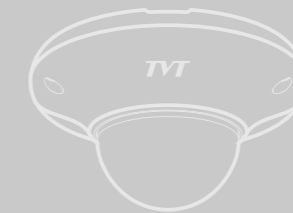


## PRODUCT SELECTION



SHENZHEN TVT DIGITAL TECHNOLOGY CO., LTD.



www.tvt.net.cn

Address: North Block, CE Lighting House, Hi-Tech Park, Nanshan District, Shenzhen, GuangDong, P.R.China  
Tel: 0755 -33306000 33306001  
Fax: 0755 -33306002  
Email: overseas@tvt.net.cn  
Web: <http://www.tvt.net.cn>



@TVT All rights reserved

\*Design and specifications are subject to change without notice.

2017 Q3

SHENZHEN TVT DIGITAL TECHNOLOGY CO., LTD.



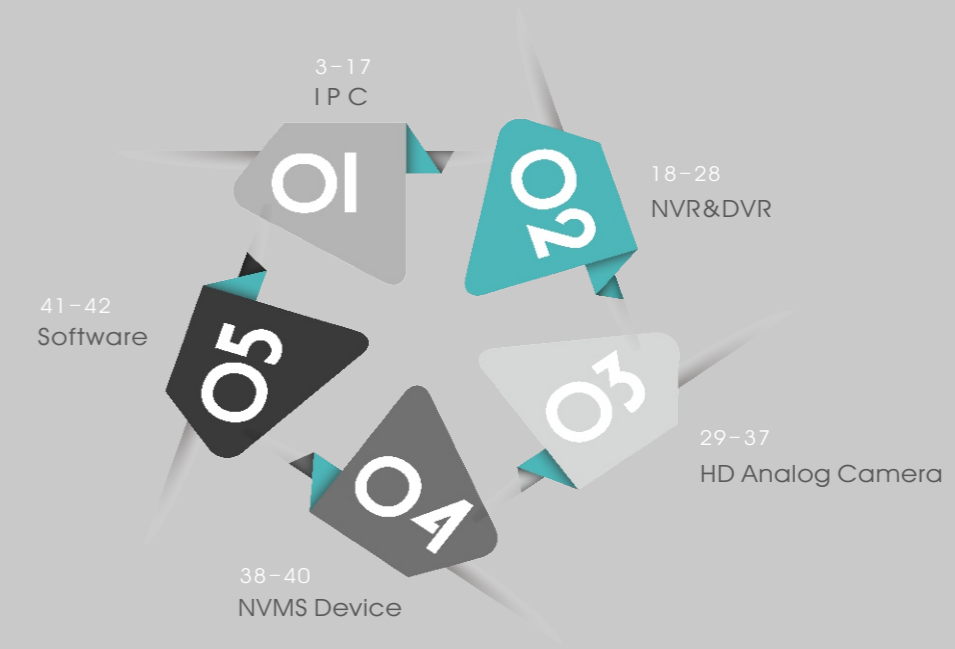
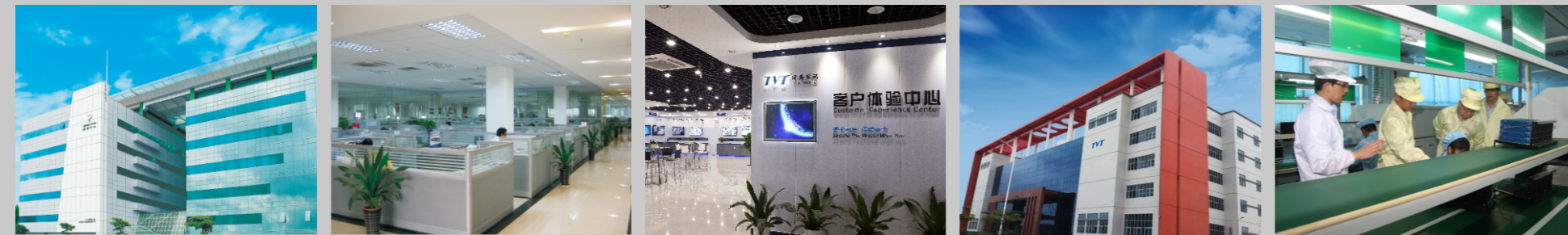
## Company Profile

Shenzhen TVT Digital Technology Co., Ltd is a fast-growing CCTV equipment manufacturer, established in 2004. In the past years, we accumulated rich knowledge of know-how in video compression, hardware design and software development. The company was officially listed on Small and Medium Enterprise Board (SME Board) in China Shenzhen Stock Exchange on Dec 28, 2016 (002835.SZ).

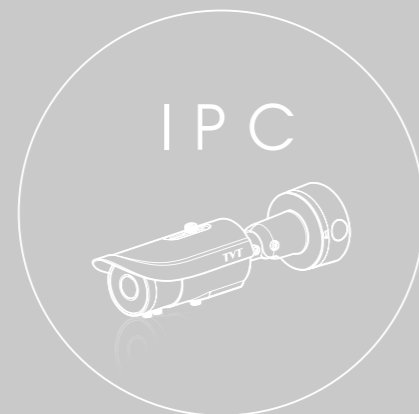
TVT has been growing up as a total solution developer and manufacturer, offering unique products including full range DVR and HD Analog camera, IP camera and hybrid DVR/NVR and software solutions such as CMS, cell phone applications, and browser applications.

To keep the advantage in innovation and quality, TVT keeps reinvesting more than 12% of its sales turnover into R&D each year. We have 300 talented engineers, more than 60% of which with more than 3 years in TVT. We keep hearing the voice from our customers, and make customer's requirement true step by step by professional demand management and R&D planning management. So we are able to deliver customer the world's latest technology several months earlier than most of competitors with reasonable price and reliable quality.

TVT is committed to enhance the security and safety of people's life and assets. Till now, customers in more than 120 countries have been benefited by distributing, installing or using TVT's reliable CCTV products.



1080P H.264 IP Camera-S1 Series








Series	1080P H.264 IP Camera	1080P H.264 IP Camera	1080P H.264 IP Camera	1080P H.264 IP Camera
Model	<b>TD-9421S1 (D/PE/IR1)</b>	<b>TD-9422S1 (D/PE/IR2)</b>	<b>TD-9524S1(D/PE/AR1)</b>	<b>TD-9525S1 (D/FZ/PE/AR2)</b>
Photo				
Image Sensor	1/2.8"CMOS	1/2.8"CMOS	1/2.8"CMOS	1/2.8"CMOS
Min.Illumination	Color : 0.1lux@F1.2,AGC ON IR On : 0 lux with IR	Color : 0.1lux@F1.2,AGC ON IR On : 0 lux with IR	Color : 0.1lux@F1.2,AGC ON IR On : 0 lux with IR	Color : 0.1lux@F1.2,AGC ON IR On : 0 lux with IR
Lens Mount	3.6mm @F1.6 ( 2.8mm Optional )	3.6mm @F1.6 ( 2.8mm/6mm Optional )	3.6mm @F1.6 ( 2.8mm Optional )	2.8-12mm @F1.4
Lens Adjustment	Fixed	Fixed	Fixed	Manual Varifocal
Day/Night	√	√	√	√
Wide Dynamic Range	Digital WDR	Digital WDR	Digital WDR	Digital WDR
Defog	-	-	-	-
HLC	-	-	-	-
Backlight compensation	-	-	-	-
EIS	-	-	-	-
Defect Correction	-	-	-	-
3D DNR	√	√	√	√
Video Compression	H.264 / MJPEG	H.264 / MJPEG	H.264 / MJPEG	H.264 / MJPEG
Resolution	1080P, 720P, D1, CIF, 480x240	1080P, 720P, D1, CIF, 480x240	1080P, 720P, D1, CIF, 480x240	1080P, 720P, D1, CIF, 480x240
Main Stream	1080P / 720P @ 1~30fps D1/ CIF @ 1~30fps D1/ CIF / 480x240 @ 1~30fps	1080P / 720P @ 1~30fps D1/ CIF @ 1~30fps D1/ CIF / 480x240 @ 1~30fps	1080P / 720P @ 1~30fps D1/ CIF @ 1~30fps D1/ CIF / 480x240 @ 1~30fps	1080P / 720P ( 1~30fps ) D1/ CIF ( 1~30fps ) D1/ CIF / 480x240 ( 1~30fps )
Audio Compression	-	-	-	-
ROI	√	√	√	√
Network	RJ45x1 , 10M/100M self-adaptive	RJ45x1 , 10M/100M self-adaptive	RJ45x1 , 10M/100M self-adaptive	RJ45x1 , 10M/100M self-adaptive
CVBS Output	-	-	-	-
Audio	-	-	-	-
Storage Card	-	-	-	-
RS485	-	-	-	-
Alarm	-	-	-	-
Interface Protocol	ONVIF	ONVIF	ONVIF	ONVIF
Motion Detection	√	√	√	√
Aisle Mode	-	-	-	-
Smart Analysis	-	-	-	-
PoE	√	√	√	√
IR distance	10-20m	20-30m	10-20m	20-30m
Water-proof Standrad	IP66	IP66	IP66	IP66
Power Supply	DC12V/PoE	DC12V/PoE	DC12V/PoE	DC12V/PoE
Power Consumption	<2W	<2W	<2W	<2W
IR Consumption ON	<4W	<4W	<4W	<4.5W
Operating Environment	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity
Dimensions ( mm )	Ø70.2×157	Ø87×219	Ø108×91	Ø130×115







## 1080P H.264 Starlight IP Camera-S1H Series

Series	1080P H.264 IP Camera	1080P H.264 IP Camera	1080P H.264 IP Camera	1080P H.264 IP Camera
Model	<b>TD-9421S1H (D/PE/IR1)</b>	<b>TD-9422S1H (D/PE/IR2)</b>	<b>TD-9524S1H(D/PE/AR1)</b>	<b>TD-9525S1H (D/FZ/PE/AR2)</b>
Photo				
Image Sensor	1/2.8"CMOS	1/2.8"CMOS	1/2.8"CMOS	1/2.8"CMOS
Min.Illumination	Color : 0.002lux@F1.2,AGC ON B/W : 0.0002lux@F1.2,AGC ON	Color : 0.002lux@F1.2,AGC ON B/W : 0.0002lux@F1.2,AGC ON	Color : 0.002lux@F1.2,AGC ON B/W : 0.0002lux@F1.2,AGC ON	Color : 0.002lux@F1.2,AGC ON B/W : 0.0002lux@F1.2,AGC ON
Lens Mount	3.6mm @F1.6 ( 2.8mm Optional )	3.6mm @F1.6 ( 2.8mm/6mm Optional )	3.6mm @F1.6 ( 2.8mm/6mm Optional )	2.8-12mm @F1.4-2.8
Lens Adjustment	Fixed	Fixed	Fixed	Manual Varifocal
Day/Night	√	√	√	√
Wide Dynamic Range	Digital WDR	Digital WDR	Digital WDR	Digital WDR
Defog	-	-	-	-
HLC	-	-	-	-
Backlight compensation	-	-	-	-
EIS	-	-	-	-
Defect Correction	-	-	-	-
3D DNR	√	√	√	√
Video Compression	H.264 / MJPEG	H.264 / MJPEG	H.264 / MJPEG	H.264 / MJPEG
Resolution	1080P, 720P, D1, CIF, 480x240	1080P, 720P, D1, CIF, 480x240	1080P, 720P, D1, CIF, 480x240	1080P, 720P, D1, CIF, 480x240
Main Stream	1080P / 720P @ 1~30fps D1/ CIF @ 1~30fps D1/ CIF / 480x240 @ 1~30fps	1080P / 720P @ 1~30fps D1/ CIF @ 1~30fps D1/ CIF / 480x240 @ 1~30fps	1080P / 720P @ 1~30fps D1/ CIF @ 1~30fps D1/ CIF / 480x240 @ 1~30fps	1080P / 720P @ 1~30fps D1/ CIF @ 1~30fps D1/ CIF / 480x240 @ 1~30fps
Audio Compression	-	-	-	-
ROI	√	√	√	√
Network	RJ45	RJ45	RJ45	RJ45
CVBS Output	-	-	-	-
Audio	-	-	-	-
Storage Card	-	-	-	-
RS485	-	-	-	-
Alarm	-	-	-	-
Interface Protocol	ONVIF	ONVIF	ONVIF	ONVIF
Motion Detection	√	√	√	√
Aisle Mode	-	-	-	-
Smart Analysis	-	-	-	-
PoE	√	√	√	√
IR distance	10-20m	20-30m	10-20m	20-30m
Water-proof Standrad	IP66	IP66	IP66	IP66
Power Supply	DC12V/PoE	DC12V/PoE	DC12V/PoE	DC12V/PoE
Power Consumption	<3W	<3W	<3W	<3W
IR Consumption ON	<5W	<6W	<5W	<6W
Operating Environment	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity
Dimensions ( mm )	Ø70×156	Ø87×219	Ø108×87	Ø130×109

## 3MP H.264 IP Camera-S1 Series

Series	3MP H.264 IP Camera	3MP H.264 IP Camera	3MP H.264 IP Camera	3MP H.264 IP Camera	3MP H.264 IP Camera	3MP H.264 IP Camera
Model	<b>TD-9431S1 (D/PE/IR1)</b>	<b>TD-9432S1 (D/PE/IR2)</b>	<b>TD-9433S1 (D/FZ/PE/IR3)</b>	<b>TD-9533S1 (D/FZ/PE/IR3)</b>	<b>TD-9534S1 (D/PE/AR1)</b>	<b>TD-9535S1 (D/FZ/PE/AR2)</b>
Photo						
Image Sensor	1/3"CMOS	1/3"CMOS	1/3"CMOS	1/3"CMOS	1/3"CMOS	1/3"CMOS
Min.Illumination	Color : 0.07lux@F1.2,AGC ON IR On : 0 lux with IR	Color : 0.07lux@F1.2,AGC ON IR On : 0 lux with IR	Color : 0.07 lux@F1.2,AGC ON B/W : 0 lux with IR	Color : 0.07 lux@F1.2,AGC ON B/W : 0 lux with IR	Color : 0.07lux@F1.2,AGC ON IR On : 0 lux with IR	Color : 0.07 lux@F1.2,AGC ON B/W : 0 lux with IR
Lens Mount	3.6mm @F2.0 ( 2.8mm Optional )	3.6mm @F1.6 ( 2.8mm/6mm Optional )	2.8-12mm @F1.4	2.8-12mm @F1.4	3.6mm @F2.0 ( 2.8mm Optional )	2.8-12mm @F1.4
Lens Adjustment	Fixed	Fixed	Motorized Varifocal	Motorized Varifocal	Fixed	Motorized Varifocal
Day/Night	√	√	√	√	√	√
Wide Dynamic Range	Digital WDR	Digital WDR	Digital WDR	Digital WDR	Digital WDR	Digital WDR
Defog	-	-	-	-	-	-
HLC	-	-	-	-	-	-
Backlight compensation	-	-	-	-	-	-
EIS	-	-	-	-	-	-
Defect Correction	-	-	-	-	-	-
3D DNR	√	√	√	√	√	√
Video Compression	H.264 / MJPEG	H.264 / MJPEG	H.264 / MJPEG	H.264 / MJPEG	H.264 / MJPEG	H.264 / MJPEG
Resolution	3MP ( 2048×1536 ) , 1080P, 720P, D1, CIF, 480x240	3MP ( 2048×1536 ) , 1080P, 720P, D1, CIF, 480x240	3MP ( 2048×1536 ) , 1080P, 720P, D1, CIF, 480x240	3MP ( 2048×1536 ) , 1080P, 720P, D1, CIF, 480x240	3MP ( 2048×1536 ) , 1080P, 720P, D1, CIF, 480x240	3MP ( 2048×1536 ) , 1080P, 720P, D1, CIF, 480x240
Main Stream	3MP / 1080P / 720P @1~30fps D1 / CIF @1~30fps D1/CIF/ 480x240 @1~30fps	3MP / 1080P / 720P @1~30fps D1 / CIF @1~30fps D1/CIF/ 480x240 @1~30fps	60Hz : 3MP ( 1~30fps ) /1080P ( 1~30fps ) /720P ( 1~30fps ) 50Hz : 3MP ( 1~25fps ) /1080P ( 1~25fps ) /720P ( 1~25fps )	60Hz : 3MP ( 1~30fps ) /1080P ( 1~30fps ) /720P ( 1~30fps ) 50Hz : 3MP ( 1~25fps ) /1080P ( 1~25fps ) /720P ( 1~25fps )	3MP / 1080P / 720P @1~30fps D1 / CIF @1~30fps D1/CIF/ 480x240 @1~30fps	60Hz : 3MP ( 1~30fps ) /1080P ( 1~30fps ) /720P ( 1~30fps ) 50Hz : 3MP ( 1~25fps ) /1080P ( 1~25fps ) /720P ( 1~25fps )
Audio Compression	-	-	-	-	-	-
ROI	√	√	√	√	√	√
Network	RJ45x1 , 10M/100M self-adaptive	RJ45x1 , 10M/100M self-adaptive	RJ45x1 , 10M/100M self-adaptive	RJ45x1 , 10M/100M self-adaptive	RJ45x1 , 10M/100M self-adaptive	RJ45x1 , 10M/100M self-adaptive
CVBS Output	-	-	-	-	-	-
Audio	-	-	-	-	-	-
Storage Card	-	-	-	-	-	-
RS485	-	-	-	-	-	-
Alarm	-	-	-	-	-	-
Interface Protocol	ONVIF	ONVIF	ONVIF	ONVIF	ONVIF	ONVIF
Motion Detection	√	√	√	√	√	√
Aisle Mode	-	-	-	-	-	-
Smart Analysis	-	-	-	-	-	-
PoE	√	√	√	√	√	√
IR distance	10-20m	20-30m	30-50m	30-50m	10-20m	20-30m
Water-proof Standrad	IP66	IP66	IP66	IP66	IP66	IP66
Power Supply	DC12V/PoE	DC12V/PoE	DC12V/PoE	DC12V/PoE	DC12V/PoE	DC12V/PoE
Power Consumption	<2W	<2W	<3.6W	<3.6W	<2W	<3.6W
IR Consumption ON	<4.5W	<4.5W	<7W	<7W	<4.5W	<7W
Operating Environment	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity
Dimensions ( mm )	Ø70.2×157	Ø87×219	Ø108×270	Ø150×114	Ø108×91	Ø130×109




## 4MP H.265 IP Camera-S2 Series

Series	4MP H.265 IP Camera	4MP H.265 IP Camera	4MP H.265 IP Camera	4MP H.265 IP Camera	4MP H.265 IP Camera	4MP H.265 IP Camera	
Model	TD-9415S2(D/PE/IR1)	TD-9442S2 (D/PE/IR2)	TD-9442S2 (D/AZ/PE/IR2)	TD-9544S2 (D/PE/AR1)	TD-9545S2 (D/AZ/PE/AR2)	TD-9541S2(D/PE/IR1)	
Photo							
Image Sensor	1/3"CMOS	1/3"CMOS	1/3"CMOS	1/3"CMOS	1/3"CMOS	1/3"CMOS	
Min.Illumination	0.05lux@F1.2,AGC ON 0 lux with IR	0.05lux@F1.2,AGC ON 0 lux with IR	0.05lux@F1.2,AGC ON 0 lux with IR	0.05lux@F1.2,AGC ON 0 lux with IR	Color : 0.05lux@F1.2,AGC ON B/W : 0 lux with IR	Color : 0.05lux@F1.2,AGC ON B/W : 0 lux with IR	
Lens Mount	3.6mm @ F1.6 ( 2.8mm/6mm Optional )	3.6mm @F1.6 ( 2.8mm/6mm Optional )	3.3-12mm @ F1.4	3.6mm @ F1.6 ( 2.8mm Optional )	3.3-12mm @ F1.4	3.6mm @F1.6 ( 2.8mm Optional )	
Lens Adjustment	Fixed	Fixed	Motorized Varifocal	Fixed	Motorized Varifocal	Fixed	
Day/Night	√	√	√	√	√	√	
Wide Dynamic Range	Digital WDR	Digital WDR	Digital WDR	Digital WDR	Digital WDR	Digital WDR	
Defog	-	-	-	-	-	-	
HLC	-	-	-	-	-	-	
Backlight compensation	-	-	-	-	-	-	
EIS	-	-	-	-	-	-	
Defect Correction	√	√	√	√	√	√	
3D DNR	√	√	√	√	√	√	
Video Compression	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG	
Resolution	4MP ( 2592x1520 ) , 2K ( 2560x1440 ) , 3MP ( 2304x1296 ) , 3MP ( 2048x1536 ) , 1080P, 720P, D1, CIF, 480x240	4MP ( 2592x1520 ) , 2K ( 2560x1440 ) , 3MP ( 2304x1296 ) , 3MP ( 2048x1536 ) , 1080P, 720P, D1, CIF, 480x240	4MP ( 2592x1520 ) , 2K ( 2560x1440 ) , 3MP ( 2304x1296 ) , 3MP ( 2048x1536 ) , 1080P, 720P, D1, CIF, 480x240	4MP ( 2592x1520 ) , 2K ( 2560x1440 ) , 3MP ( 2304x1296 ) , 3MP ( 2048x1536 ) , 1080P, 720P, D1, CIF, 480x240	4MP ( 2592x1520 ) , 2K ( 2560x1440 ) , 3MP ( 2304x1296 ) , 3MP ( 2048x1536 ) , 1080P, 720P, D1, CIF, 480x240	4MP ( 2592x1520 ) , 2K ( 2560x1440 ) , 3MP ( 2304x1296 ) , 3MP ( 2048x1536 ) , 1080P, 720P, D1, CIF, 480x240	4MP ( 2592x1520 ) , 2K ( 2560x1440 ) , 3MP ( 2304x1296 ) , 3MP ( 2048x1536 ) , 1080P, 720P, D1, CIF, 480x240
Main Stream	60Hz : 4MP ( 1~20fps ) /2K ( 1~20fps ) /3MP ( 1~30fps ) /1080P ( 1~30fps ) /720P ( 1~30fps ) 50Hz : 4MP ( 1~20fps ) /2K ( 1~20fps ) /3MP ( 1~25fps ) /1080P ( 1~25fps ) /720P ( 1~25fps )	60Hz : 4MP ( 1~20fps ) /2K ( 1~20fps ) /3MP ( 1~30fps ) /1080P ( 1~30fps ) /720P ( 1~30fps ) 50Hz : 4MP ( 1~20fps ) /2K ( 1~20fps ) /3MP ( 1~25fps ) /1080P ( 1~25fps ) /720P ( 1~25fps )	60Hz : 4MP ( 1~20fps ) /2K ( 1~20fps ) /3MP ( 1~30fps ) /1080P ( 1~30fps ) /720P ( 1~30fps ) 50Hz : 4MP ( 1~20fps ) /2K ( 1~20fps ) /3MP ( 1~25fps ) /1080P ( 1~25fps ) /720P ( 1~25fps )	60Hz : 4MP ( 1~20fps ) /2K ( 1~20fps ) /3MP ( 1~30fps ) /1080P ( 1~30fps ) /720P ( 1~30fps ) 50Hz : 4MP ( 1~20fps ) /2K ( 1~20fps ) /3MP ( 1~25fps ) /1080P ( 1~25fps ) /720P ( 1~25fps )	60Hz : 4MP ( 1~20fps ) /2K ( 1~20fps ) /3MP ( 1~30fps ) /1080P ( 1~30fps ) /720P ( 1~30fps ) 50Hz : 4MP ( 1~20fps ) /2K ( 1~20fps ) /3MP ( 1~25fps ) /1080P ( 1~25fps ) /720P ( 1~25fps )	60Hz : 4MP ( 1~20fps ) /2K ( 1~20fps ) /3MP ( 1~30fps ) /1080P ( 1~30fps ) /720P ( 1~30fps ) 50Hz : 4MP ( 1~20fps ) /2K ( 1~20fps ) /3MP ( 1~25fps ) /1080P ( 1~25fps ) /720P ( 1~25fps )	60Hz : 4MP ( 1~20fps ) /2K ( 1~20fps ) /3MP ( 1~30fps ) /1080P ( 1~30fps ) /720P ( 1~30fps ) 50Hz : 4MP ( 1~20fps ) /2K ( 1~20fps ) /3MP ( 1~25fps ) /1080P ( 1~25fps ) /720P ( 1~25fps )
Audio Compression	G.711A/U	G.711A/U	G.711A/U	G.711A/U	G.711A/U	G.711A/U	
ROI	√	√	√	√	√	√	
Network	RJ45x1 , 10M/100M self-adaptive	RJ45x1 , 10M/100M self-adaptive	RJ45x1 , 10M/100M self-adaptive	RJ45x1 , 10M/100M self-adaptive	RJ45x1 , 10M/100M self-adaptive	RJ45x1 , 10M/100M self-adaptive	
CVBS Output	-	-	-	-	-	-	
Audio	-	-	-	-	-	-	
Storage Card	-	-	-	-	-	-	
RS485	-	-	-	-	-	-	
Alarm	-	-	-	-	-	-	
Interface Protocol	ONVIF	ONVIF	ONVIF	ONVIF	ONVIF	ONVIF	
Motion Detection	√	√	√	√	√	√	
Aisle Mode	√	√	√	√	√	√	
Smart Analysis	√	√	√	√	√	√	
PoE	√	√	√	√	√	√	
IR distance	10-20m	20-30m	20-30m	10-20m	20-30m	10-20m	
Water-proof Standrad	IP66	IP66	IP66	IP66	IP66	IP66	
Power Supply	DC12V/PoE	DC12V/PoE	DC12V/PoE	DC12V/PoE	DC12V/PoE	DC12V/PoE	
Power Consumption	<2.5W	<2.5W	<2.5W	<2.5W	<2.5W	<2.5W	
IR Consumption ON	<6.5W	<6W	<6W	<5W	<5.5W	<4W	
Operating Environment	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity	
Dimensions ( mm )	Ø70×156	Ø87×219	Ø87×219	Φ108×87	Ø130×109	Ø116×91	






## 1080P H.265 IP Camera-E2 Series

Series	1080P H.265 IP Camera	1080P H.265 IP Camera	1080P H.265 IP Camera	1080P H.265 IP Camera
Model	TD-9525E2 (D/W/FZ/PE/IR2)	TD-9524E2(D/W/PE/AR1)	TD-9521E2(D/W/PE/IR1)	TD-9523E2(D/W/FZ/PE/IR2)
Photo				
Image Sensor	1/2.7"CMOS	1/2.7"CMOS	1/2.7"CMOS	1/2.7"CMOS
Min.Illumination	0.05lux@F1.2,AGC ON 0 lux with IR	0.05lux@F1.2,AGC ON 0 lux with IR	Color : 0.05lux@F1.2,AGC ON B/W : 0 lux with IR	Color : 0.05lux@F1.2,AGC ON B/W : 0 lux with IR
Lens Mount	2.8-12mm @F1.4	3.6mm @F1.6 ( 2.8mm/6mm Optional )	3.6mm @F1.6 ( 2.8mm/6mm Optional )	2.8-12mm @F1.4
Lens Adjustment	Manual Varifocal	Fixed	Fixed	Manual Varifocal
Day/Night	√	√	√	√
Wide Dynamic Range	Physical WDR	Physical WDR	Physical WDR	Physical WDR
Defog	√	√	√	√
HLC	√	√	√	√
Backlight compensation	√	√	√	√
EIS	√	√	√	√
Defect Correction	√	√	√	√
3D DNR	√	√	√	√
Video Compression	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG
Resolution	1080P, 720P, D1, CIF, 480x240	1080P, 720P, D1, CIF, 480x240	1080P, 720P, D1, CIF, 480x240	1080P, 720P, D1, CIF, 480x240
Main Stream	1080P / 720P @ 1~30fps D1/ CIF @ 1~30fps CIF / 480x240 @ 1~30fps	1080P / 720P @ 1~30fps D1/ CIF @ 1~30fps CIF / 480x240 @ 1~30fps	1080P / 720P @ 1~30fps D1/ CIF @ 1~30fps CIF / 480x240 @ 1~30fps	1080P / 720P @ 1~30fps D1/ CIF @ 1~30fps CIF / 480x240 @ 1~30fps
Audio Compression	G.711A/U	G.711A/U	G.711A/U	G.711A/U
ROI	√	√	√	√
Network	RJ45	RJ45	RJ45	RJ45
CVBS Output	-	-	-	-
Audio	MIC IN×1	MIC IN×1	MIC IN×1	MIC IN×1
Storage Card	-	-	√	√
RS485	-	-	-	√
Alarm	-	-	-	√
Interface Protocol	ONVIF	ONVIF	ONVIF	ONVIF
Motion Detection	√	√	√	√
Aisle Mode	√	√	√	√
Smart Analysis	√	√	√	√
PoE	√	√	√	√
IR distance	20-30m	10-20m	10-20m	20-30m
Water-proof Standrad	IP66	IP66	IP66	IP66
Power Supply	DC12V/PoE	DC12V/PoE	DC12V/PoE	DC12V/ AC24V/ PoE
Power Consumption	<3.6W	<3.5W	<3.5W	<3.5W
IR Consumption ON	<7W	<5W	<4W	<5.5W
Operating Environment	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity
Dimensions ( mm )	Ø130×115	Ø108×91	Φ116×91	Ø150×110





## 1080P H.265 IP Camera-E2 Series

Series	1080P H.264 IP Camera	1080P H.265 IP Camera	1080P H.265 IP Camera
Model	TD-9421E2 (D/W/PE/IR1)	TD-9422E2 (D/W/PE/IR2)	TD-9423E2(D/W/FZ/PE/IR3)
Photo			
Image Sensor	1/2.7"CMOS	1/2.7"CMOS	1/2.7"CMOS
Min.Illumination	0.05lux@F1.2,AGC ON 0 lux with IR	Color : 0.05lux@F1.2,AGC ON B/W : 0 lux with IR	Color : 0.05lux@F1.2,AGC ON B/W : 0 lux with IR
Lens Mount	3.6mm @F1.6 ( 2.8mm Optional )	3.6mm @F1.6 ( 6mm Optional )	2.8-12mm @F1.4
Lens Adjustment	Fixed	Fixed	Manual Varifocal
Day/Night	√	√	√
Wide Dynamic Range	Physical WDR	Physical WDR	Physical WDR
Defog	√	√	√
HLC	√	√	√
Backlight compensation	√	√	√
EIS	√	√	√
Defect Correction	√	√	√
3D DNR	√	√	√
Video Compression	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG
Resolution	1080P, 720P, D1, CIF, 480x240	1080P, 720P, D1, CIF, 480x240	1080P, 720P, D1, CIF, 480x240
Main Stream	1080P / 720P @ 1~30fps D1/ CIF @ 1~30fps CIF / 480x240 @ 1~30fps	1080P / 720P @ 1~30fps D1/ CIF @ 1~30fps CIF / 480x240 @ 1~30fps	1080P / 720P @ 1~30fps D1/ CIF @ 1~30fps CIF / 480x240 @ 1~30fps
Audio Compression	G.711A/U	G.711A/U	G.711A/U
ROI	√	√	√
Network	RJ45	RJ45	RJ45
CVBS Output	√	-	-
Audio	MIC IN×1	MIC IN×1	MIC IN×1, MIC OUT×1
Storage Card	-	√	√
RS485	-	-	√
Alarm	-	-	√
Interface Protocol	ONVIF	ONVIF	ONVIF
Motion Detection	√	√	√
Aisle Mode	√	√	√
Smart Analysis	√	√	√
PoE	√	√	√
IR distance	10m	20-30m	30-50m
Water-proof Standrad	IP66	IP66	IP66
Power Supply	DC12V/PoE	DC12V/PoE	DC12V/PoE
Power Consumption	<3.5W	<3.5W	<3.5W
IR Consumption ON	<5W	<5W	<6.5W
Operating Environment	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity
Dimensions ( mm )	Ø70.2×157	Ø87×219	Ø108×270





## 4MP H.265 IP Camera-E2 Series

Series	4MP H.265 IP Camera	4MP H.265 IP Camera	4MP H.265 IP Camera	4MP H.265 IP Camera	4MP H.265 IP Camera
Model	TD-9342E2 (D/PE)	TD-9442E2 (D/FZ/PE/IR2)	TD-9443E2(D/FZ/PE/IR3)	TD-9443E2(D/AZ/PE/IR3)	TD-9444E2 (D/PE/AZ/AR7)
Photo					
Image Sensor	1/3"CMOS	1/3"CMOS	1/3"CMOS	1/3"CMOS	1/3"CMOS
Min.Illumination	Color : 0.05 lux @F1.2, AGC ON; IR On : 0 lux @F1.2, AGC ON	Color : 0.05lux@F1.2,AGC ON IR On : 0lux with IR	Color : 0.05lux@F1.2,AGC ON IR On : 0lux with IR	Color : 0.05lux@F1.2,AGC ON IR On : 0lux with IR	Color : 0.05lux@F1.2,AGC ON IR On : 0lux with IR
Lens Mount	C/CS	3.3-12mm @ F1.4	3.3-12mm @ F1.4	3.3-12mm @ F1.4	9-22mm @ F1.4
Lens Adjustment	-	Manual Varifocal	Manual Varifocal	Motorized Varifocal	Motorized Varifocal
Day/Night	√	√	√	√	√
Wide Dynamic Range	Physical WDR	Physical WDR	Physical WDR	Physical WDR	Physical WDR
Defog	√	√	√	√	√
HLC	√	√	√	√	√
Backlight compensation	√	√	√	√	√
EIS	√	√	√	√	√
Defect Correction	√	√	√	√	√
3D DNR	√	√	√	√	√
Video Compression	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG
Resolution	4MP ( 2592x1520 ) , 2K ( 2560x1440 ) , 3MP ( 2304 ×1296 ) , 1080P, 720P, D1, CIF, 480x240	4MP ( 2592x1520 ) , 2K ( 2560x1440 ) , 3MP ( 2304 ×1296 ) , 1080P, 720P, D1, CIF, 480x240	4MP ( 2592x1520 ) , 2K ( 2560x1440 ) , 3MP ( 2304 ×1296 ) , 1080P, 720P, D1, CIF, 480x240	4MP ( 2592x1520 ) , 2K ( 2560x1440 ) , 3MP ( 2304 ×1296 ) , 1080P, 720P, D1, CIF, 480x240	4MP ( 2592x1520 ) , 2K ( 2560x1440 ) , 3MP ( 2304 ×1296 ) , 1080P, 720P, D1, CIF, 480x240
Main Stream	4MP/2K/ 3MP/ 1920x1080/ 720P ( 1~30fps ) 1080P@ 1~60fps 720P ( 1~30fps ) / D1 ( 1~30fps ) / CIF ( 1~30fps ) D1 / 480x240/ CIF ( 1~30fps )	4MP/2K/ 3MP/ 1920x1080/ 720P ( 1~30fps ) 1080P@ 1~60fps 720P ( 1~30fps ) / D1 ( 1~30fps ) / CIF ( 1~30fps ) D1 / 480x240/ CIF ( 1~30fps )	4MP/2K/ 3MP/ 1920x1080/ 720P ( 1~30fps ) 1080P@ 1~60fps 720P ( 1~30fps ) / D1 ( 1~30fps ) / CIF ( 1~30fps ) D1 / 480x240/ CIF ( 1~30fps )	4MP/2K/ 3MP/ 1920x1080/ 720P ( 1~30fps ) 1080P@ 1~60fps 720P ( 1~30fps ) / D1 ( 1~30fps ) / CIF ( 1~30fps ) D1 / 480x240/ CIF ( 1~30fps )	4MP/2K/ 3MP/ 1920x1080/ 720P ( 1~30fps ) 1080P@ 1~60fps 720P ( 1~30fps ) / D1 ( 1~30fps ) / CIF ( 1~30fps ) D1 / 480x240/ CIF ( 1~30fps )
Audio Compression	G.711A/U	G.711A/U	G.711A/U	G.711A/U	G.711A/U
ROI	√	√	√	√	√
Network	RJ45x1 , 10M/100M self-adaptive	RJ45x1 , 10M/100M self-adaptive	RJ45x1 , 10M/100M self-adaptive	RJ45x1 , 10M/100M self-adaptive	RJ45x1 , 10M/100M self-adaptive
CVBS Output	√	√	√	√	√
Audio	MIC IN×1, MIC OUT×1	MIC IN×1	MIC IN×1, MIC OUT×1	MIC IN×1, MIC OUT×1	MIC IN×1, MIC OUT×1
Storage Card	√	-	√	√	√
RS485	√	-	√	√	√
Alarm	1CH input 1CH output	-	1CH input 1CH output	1CH input 1CH output	1CH input 1CH output
Interface Protocol	ONVIF	ONVIF	ONVIF	ONVIF	ONVIF
Motion Detection	√	√	√	√	√
Aisle Mode	√	√	√	√	√
Smart Analysis	√	√	√	√	√
PoE	√	√	√	√	√
IR distance	-	20-30m	30-50m	30-50m	70-100m
Water-proof Standrad	-	IP66	IP66	IP66	IP66
Power Supply	AC24V / DC12V / PoE	DC12V/PoE	DC12V/PoE	DC12V/PoE	DC12V/PoE
Power Consumption	<2.5W	<2.5W	<2.5W	<3.6W	<4W
IR Consumption ON	-	<5W	<6.5W	<7W	<8W
Operating Environment	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity
Dimensions ( mm )	68.4×70×148.7 ( W×D×H )	Ø87×219	Ø108×270	Ø108×270	Ø108×357





## 4MP H.265 IP Camera-E2 Series

Series	4MP H.265 IP Camera	4MP H.265 IP Camera	4MP H.265 IP Camera	4MP H.265 IP Camera	4MP H.265 IP Camera
Model	TD-9545E2 (D/AZ/PE/AR2)	TD-9544E2 (D/PE/AR1)	TD-9541E2(D/PE/IR1)	TD-9543E2(D/AZ/PE/IR2)	TD-9547E2 (D/PE/IR1)
Photo	 <span>Auto Lens</span>			 <span>Auto Lens</span>	
Image Sensor	1/3"CMOS	1/3"CMOS	1/3"CMOS	1/3"CMOS	1/3"CMOS
Min.Illumination	Color : 0.05lux@F1.2,AGC ON IR On : 0lux with IR	Color : 0.05lux@F1.2,AGC ON IR On : 0lux with IR	Color : 0.05lux@F1.2,AGC ON IR On : 0lux with IR	Color : 0.05lux@F1.2,AGC ON IR On : 0lux with IR	Color : 0.05lux@F1.2,AGC ON IR On : 0 lux with IR
Lens Mount	3.3-12mm @ F1.4	3.6mm @ F1.6 ( 2.8mm/6mm Optional )	3.6mm @F1.6 ( 6mm Optional )	3.3-12mm @ F1.4	3.6mm @F1.6 ( 2.8mm/6mm Optional )
Lens Adjustment	Motorized Varifocal	Fixed	Fixed	Motorized Varifocal	Fixed
Day/Night	√	√	√	√	√
Wide Dynamic Range	Physical WDR	Physical WDR	Physical WDR	Physical WDR	Physical WDR
Defog	√	√	√	√	√
HLC	√	√	√	√	√
Backlight compensation	√	√	√	√	√
EIS	√	√	√	√	√
Defect Correction	√	√	√	√	√
3D DNR	√	√	√	√	√
Video Compression	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG
Resolution	4MP ( 2592x1520 ) , 2K ( 2560x1440 ) , 3MP ( 2304x1296 ) , 1080P, 720P, D1, CIF, 480x240	4MP ( 2592x1520 ) , 2K ( 2560x1440 ) , 3MP ( 2304x1296 ) , 1080P, 720P, D1, CIF, 480x240	4MP ( 2592x1520 ) , 2K ( 2560x1440 ) , 3MP ( 2304x1296 ) , 1080P, 720P, D1, CIF, 480x240	4MP ( 2592x1520 ) , 2K ( 2560x1440 ) , 3MP ( 2304x1296 ) , 1080P, 720P, D1, CIF, 480x240	4MP ( 2592x1520 ) , 2K ( 2560x1440 ) , 3MP ( 2304x1296 ) , 1080P, 720P, D1, CIF, 480x240
Main Stream	4MP/2K/ 3MP/ 1920x1080/ 720P ( 1~30fps ) 1080P@1~60fps 720P ( 1~30fps ) / D1 ( 1~30fps ) / CIF ( 1~30fps ) D1 / 480x240/ CIF ( 1~30fps )	4MP /2K / 3MP / 1080P / 720P @ 1~30fps 1080P@1~60fps 720P @ 1~30fps D1 / CIF @ 1~30fps D1 / 480x240/ CIF @ 1~30fps	4MP /2K / 3MP/1080P / 720P @ 1~30fps 1080P@1~60fps 720P @ 1~30fps D1 / CIF @ 1~30fps D1 / 480x240/ CIF @ 1~30fps	4MP /2K/ 3MP/1080P/ 720P @ 1~30fps 1080P@1~60fps 720P@1~30fps D1 / CIF @ 1~30fps D1 / 480x240/ CIF @ 1~30fps	4MP/2K/ 3MP/ 1920x1080/ 720P ( 1~30fps ) 1080P@1~60fps 720P ( 1~30fps ) / D1 ( 1~30fps ) / CIF ( 1~30fps ) D1 / 480x240 / CIF ( 1~30fps )
Audio Compression	G.711A/U	G.711A/U	G.711A/U	G.711A/U	G.711A/U
ROI	√	√	√	√	√
Network	RJ45x1 , 10M/100M self-adaptive	RJ45x1 , 10M/100M self-adaptive	RJ45x1 , 10M/100M self-adaptive	RJ45x1 , 10M/100M self-adaptive	RJ45x1 , 10M/100M self-adaptive
CVBS Output	√	√	√	√	√
Audio	MIC IN×1	MIC IN×1	MIC IN×1	MIC IN×1 , MIC OUT×1	MIC Inside
Storage Card	-	-	√	√	√
RS485	-	-	-	√	√
Alarm	-	-	-	1CH input 1CH output	-
Interface Protocol	ONVIF	ONVIF	ONVIF	ONVIF	ONVIF
Motion Detection	√	√	√	√	√
Aisle Mode	-	√	√	√	√
Smart Analysis	-	√	-	-	-
PoE	√	√	√	√	√
IR distance	20-30m	10-20m	10-20m	20-30m	10-20m
Water-proof Standrad	IP66	IP66	IP66	IP66	IP66
Power Supply	DC12V/PoE	DC12V/PoE	DC12V/PoE	DC12V/PoE	DC12V/PoE
Power Consumption	<3.6W	<2.5W	<2.5W	<2.5W	<3W
IR Consumption ON	<7W	<5W	<4W	<5W	<4.5W
Operating Environment	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity
Dimensions ( mm )	Ø130×115	Ø116×91	Ø116×91	Ø150×110	Ø110×58







## 4K H.265 IP Camera-E2 Series

Series	4K H.265 IP Camera	4K H.265 IP Camera	4K H.265 IP Camera	4K H.265 IP Camera
Model	TD-9482E2 (D/PE/IR2)	TD-9483E2 (D/AZ/PE/IR3)	TD-9581E2 (D/PE/IR1)	TD-9583E2 ( D/AZ/PE/IR2 )
Photo		 <span>Auto Lens</span>		 <span>Auto Lens</span>
Image Sensor	1/2.5"CMOS	1/2.5"CMOS	1/2.5"CMOS	1/2.5"CMOS
Min.Illumination	Color : 0.01lux @F1.2, AGC ON IR On : 0lux with IR	Color : 0.01lux @F1.2, AGC ON IR On : 0lux with IR	Color : 0.01lux @F1.2, AGC ON IR On : 0lux with IR	Color : 0.01lux @F1.2, AGC ON IR On : 0lux with IR
Lens Mount	5mm @ F1.4 ( 2.8mm/6mm Optional )	3.6-10mm @ F1.4	5mm @ F1.4 ( 2.8mm/6mm Optional )	3.6-10mm @ F1.4
Lens Adjustment	Fixed	Motorized Varifocal	Fixed	Motorized Varifocal
Day/Night	√	√	√	√
Wide Dynamic Range	Digital WDR	Digital WDR	Digital WDR	Digital WDR
Defog	√	√	√	√
HLC	√	√	√	√
Backlight compensation	√	√	√	√
EIS	√	√	√	√
Defect Correction	√	√	√	√
3D DNR	√	√	√	√
Video Compression	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG
Resolution	8MP ( 3840×2160 ) , 1080P ( 1920×1080 ) , 720P ( 1280×720 ) , D1, CIF, 480x240	8MP ( 3840×2160 ) , 1080P ( 1920×1080 ) , 720P ( 1280×720 ) , D1, CIF, 480x240	8MP ( 3840×2160 ) , 1080P ( 1920×1080 ) , 720P ( 1280×720 ) , D1, CIF, 480x240	8MP ( 3840×2160 ) , 1080P ( 1920×1080 ) , 720P ( 1280×720 ) , D1, CIF, 480x240
Main Stream	8MP / 1080P / 720P @ 1~30fps 720 ( 1~30fps ) / D1 ( 1~30fps ) D1 / CIF/ 480x240 @ 1~30fps	8MP / 1080P / 720P @ 1~30fps 720 ( 1~30fps ) / D1 ( 1~30fps ) D1 / CIF/ 480x240 @ 1~30fps	8MP / 1080P / 720P @ 1~30fps 720 ( 1~30fps ) / D1 ( 1~30fps ) D1 / CIF/ 480x240 @ 1~30fps	8MP / 1080P / 720P @ 1~30fps 720 ( 1~30fps ) / D1 ( 1~30fps ) D1 / CIF/ 480x240 @ 1~30fps
Audio Compression	G.711A/U	G.711A/U	G.711A/U	G.711A/U
ROI	√	√	√	√
Network	RJ45x1 , 10M/100M self-adaptive	RJ45x1 , 10M/100M self-adaptive	RJ45x1 , 10M/100M self-adaptive	RJ45x1 , 10M/100M self-adaptive
CVBS Output	√	√	√	√
Audio	MIC IN×1	MIC IN×1 , MIC OUT×1	MIC IN×1	MIC IN×1 , MIC OUT×1
Storage Card	-	√	-	√
RS485	-	√	-	√
Alarm	-	1CH input 1CH output	-	1CH input 1CH output
Interface Protocol	ONVIF	ONVIF	ONVIF	ONVIF
Motion Detection	√	√	√	√
Aisle Mode	√	√	√	√
Smart Analysis	√	√	√	√
PoE	√	√	√	√
IR distance	20-30m	30-50m	10-20m	20-30m
Water-proof Standrad	IP66	IP66	IP66	IP66
Power Supply	DC12V/PoE	DC12V/PoE	DC12V/PoE	DC12V/PoE
Power Consumption	<3.5W	<3.5W	<2.5W	<3.5W
IR Consumption ON	<5W	<8W	<5W	<8W
Operating Environment	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity
Dimensions ( mm )	Ø87×219	Ø108×270	Ø116×91	Ø150×110

## 2MP H.265 Star Light IP Camera-M2 Seires

Series	2MP H.265 Star Light IP Camera	2MP H.265 Star Light IP Camera	2MP H.265 Star Light IP Camera	2MP H.265 Star Light IP Camera	2MP H.265 Star Light IP Camera	2MP H.265 Star Light IP Camera
Model	TD-9523M2 (D/W/AZ/PE/AR3)	TD-9521M2 (D/W/PE/IR1)	TD-9322M2 (D/W/PE)	TD-9422M2 (D/W/PE/AR2)	TD-9423M2 (D/W/AZ/PE/AR3)	TD-9424M2 (D/W/PE/FZ/AR5)
Photo						
Image Sensor	1/2.8"CMOS	1/2.8"CMOS	1/2.8"CMOS	1/2.8"CMOS	1/2.8"CMOS	1/2.8"CMOS
Min.Illumination	Color : 0.001 lux@F1.2,AGC ON B/W : 0 lux with IR	Color : 0.001 lux@F1.2,AGC ON B/W : 0 lux with IR	Color : 0.001lux@F1.2,AGC ON B/W : 0.0005lux@F1.2,AGC ON	Color : 0.001 lux@F1.2,AGC ON B/W : 0 lux with IR	0.001lux@F1.2,AGC ON 0 lux with IR	0.001lux@F1.2,AGC ON 0 lux with IR
Lens Mount	2.8-12mm @ F1.4	3.6mm @F1.6 ( 2.8mm/ 6mm/8mm Optional )	C/CS	6mm@ F1.4 (2.8mm/3.6mm/8mm optional)	2.8-12mm @ F1.4	7-22mm @ F1.4 ( 2.8-12mm Optional )
Lens Adjustment	Motorized Varifocal	Fixed	-	Fixed	Motorized Varifocal	Manual Varifocal
Day/Night	√	√	√	√	√	√
Wide Dynamic Range	Physical WDR	Physical WDR	Physical WDR	Physical WDR	Physical WDR	Physical WDR
Defog	√	√	√	√	√	√
HLC	√	√	√	√	√	√
Backlight compensation	√	√	√	√	√	√
EIS	√	√	√	√	√	√
Defect Correction	√	√	√	√	√	√
3D DNR	√	√	√	√	√	√
Video Compression	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG
Resolution	1080P, 720P, D1, CIF, 480x240	1080P, 720P, D1, CIF, 480x240	1080P, 720P, D1, CIF, 480x240	1080P, 720P, D1, CIF, 480x240	1080P, 720P, D1, CIF, 480x240	1080P, 720P, D1, CIF, 480x240
Main Stream	1080P / 720P @ 1~30fps 720P/D1/ CIF @ 1~30fps D1/ CIF / 480x240 @ 1~30fps	1080P / 720P @ 1~30fps 720P/D1/ CIF @ 1~30fps D1/ CIF / 480x240 @ 1~30fps	1080P / 720P @ 1~30fps 720P/D1/ CIF @ 1~30fps D1/ CIF / 480x240 @ 1~30fps	1080P / 720P @ 1~30fps 720P/D1/ CIF @ 1~30fps D1/ CIF / 480x240 @ 1~30fps	1080P / 720P @ 1~30fps 720P/D1/ CIF @ 1~30fps D1/ CIF / 480x240 @ 1~30fps	1080P / 720P @ 1~30fps 720P/D1/ CIF @ 1~30fps D1/ CIF / 480x240 @ 1~30fps
Audio Compression	G.711A/U	G.711A/U	G.711A/U	G.711A/U	G.711A/U	G.711A/U
ROI	√	√	√	√	√	√
Network	RJ45	RJ45	RJ45	RJ45	RJ45	RJ45
CVBS Output	√	√	√	√	√	√
Audio	MIC IN×1 , MIC OUT×1	MIC IN×1	MIC IN×1 , MIC OUT×1	MIC IN×1	MIC IN×1 , MIC OUT×1	MIC IN×1 , MIC OUT×1
Storage Card	√	√	√	√	√	√
RS485	√	-	√	-	√	√
Alarm	1CH input 1CH output	-	1CH input 1CH output	-	1CH input 1CH output	1CH input 1CH output
Interface Protocol	ONVIF	ONVIF	ONVIF	ONVIF	ONVIF	ONVIF
Motion Detection	√	√	√	√	√	√
Aisle Mode	√	√	-	√	√	-
Smart Analysis	√	√	√	√	√	√
PoE	√	√	√	√	√	√
IR distance	30-50m	10-20m	-	20-30m	30-50m	70-100m
Water-proof Standrad	IP66	IP66	-	IP66	IP66	IP66
Power Supply	DC12V/ AC24V/ PoE	DC12V/ AC24V/ PoE	DC12V / AC24V	DC12V / PoE	DC12V/PoE	DC12V/PoE
Power Consumption	<3W	<2.5W	<2.5W	<2.5W	<3W	<2.5W
IR Consumption ON	<5.5W	<4.5W	-	<7.5W	<7W	<6W
Operating Environment	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity
Dimensions ( mm )	Ø150×110	Φ116×91	70×145×60 ( W×D×H )	Ø87×219	Ø108×270	Ø108×357

## 3MP&amp;5MP H.265 Star Light IP Camera-M2 Seires

Series	5MP H.265 Star Light IP Camera	3MP H.265 Star Light IP Camera	3MP H.265 Star Light IP Camera	5MP H.265 Star Light IP Camera	3MP H.265 Star Light IP Camera	3MP H.265 Star Light IP Camera
Model	TD-9453M2 (D/W/FZ/PE/IR3)	TD-9433M2(D/W/FZ/PE/IR3)	TD-9434M2(D/W/FZ/PE/IR5)	TD-9553M2 ( D/W/FZ/PE/IR2 )	TD-9531M2(D/W/PE/IR1)	TD-9533M2(D/W/FZ/PE/IR2)
Photo						
Image Sensor	1/1.8"CMOS	1/2.8"CMOS	1/2.8"CMOS	1/1.8"CMOS	1/2.8"CMOS	1/2.8"CMOS
Min.Illumination	Color : 0.01lux @F1.2, AGC ON IR On : 0lux with IR	Color : 0.01lux @F1.2, AGC ON IR On : 0lux with IR	Color : 0.01lux @F1.2, AGC ON IR On : 0lux with IR	Color : 0.01lux @F1.2, AGC ON IR On : 0lux with IR	Color : 0.01lux @F1.2, AGC ON IR On : 0lux with IR	Color : 0.01lux @F1.2, AGC ON IR On : 0lux with IR
Lens Mount	3.6-10mm @ F1.4	2.8-12mm @ F1.4	7-22mm @ F1.4 ( 2.8-12mm Optional )	3.6-10mm @ F1.4	3.6mm @F1.6 ( 6mm/8mm Optional )	2.8-12mm @ F1.4
Lens Adjustment	Manual Varifocal	Manual Varifocal	Manual Varifocal	Manual Varifocal	Fixed	Manual Varifocal
Day/Night	√	√	√	√	√	√
Wide Dynamic Range	Physical WDR	Physical WDR	Physical WDR	Physical WDR	Physical WDR	Physical WDR
Defog	√	√	√	√	√	√
HLC	√	√	√	√	√	√
Backlight compensation	√	√	√	√	√	√
EIS	√	√	√	√	√	√
Defect Correction	√	√	√	√	√	√
3D DNR	√	√	√	√	√	√
Video Compression	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG
Resolution	5MP ( 2592×1944 ) , 2K ( 2560×1440 ) , 1080P, 720P, D1, CIF, 480x240	3MP ( 2048×1536 ) , 1080P, 720P, D1, CIF, 480x240	3MP ( 2048×1536 ) , 1080P, 720P, D1, CIF, 480x240	5MP ( 2592×1944 ) , 2K ( 2560×1440 ) , 1080P, 720P, D1, CIF, 480x240	3MP ( 2048×1536 ) , 1080P, 720P, D1, CIF, 480x240	3MP ( 2048×1536 ) , 1080P, 720P, D1, CIF, 480x240
Main Stream	5MP / 2K / 1080P / 720P @ 1~30fps 720P / D1 / CIF @ 1~30fps ( 1~30fps ) D1 / CIF / 480x240 @ 1~30fps	3MP / 1080P / 720P @ 1~30fps 720P / D1 / CIF @ 1~30fps D1 / 480x240 / CIF @ 1~30fps	3MP / 1080P / 720P @ 1~30fps 720P / D1 / CIF @ 1~30fps D1 / 480x240 / CIF @ 1~30fps	5MP / 2K / 1080P / 720P @ 1~30fps 720P / D1 / CIF @ 1~30fps ( 1~30fps ) D1 / CIF / 480x240 @ 1~30fps	3MP / 1080P / 720P @ 1~30fps 720P / D1 / CIF @ 1~30fps D1 / 480x240 / CIF @ 1~30fps	3MP / 1080P / 720P @ 1~30fps 720P / D1 / CIF @ 1~30fps D1 / 480x240 / CIF @ 1~30fps
Audio Compression	G.711A/U	G.711A/U	G.711A/U	G.711A/U	G.711A/U	G.711A/U
ROI	√	√	√	√	√	√
Network	RJ45x1 , 10M/100M/1000M self-adaptive	RJ45x1 , 10M/100M self-adaptive	RJ45x1 , 10M/100M self-adaptive	RJ45x1 , 10M/100M/1000M self-adaptive	RJ45x1 , 10M/100M self-adaptive	RJ45x1 , 10M/100M self-adaptive
CVBS Output	√	√	√	√	√	√
Audio	MIC IN×1 , MIC OUT×1	MIC IN×1 , MIC OUT×1	MIC IN×1 , MIC OUT×1	MIC IN×1 , MIC OUT×1	MIC IN×1	MIC IN×1 , MIC OUT×1
Storage Card	√	√	√	√	-	√
RS485	√	√	√	√	-	√
Alarm	1CH input 1CH output	1CH input 1CH output	1CH input 1CH output	1CH input 1CH output	-	1CH input 1CH output
Interface Protocol	ONVIF	ONVIF	ONVIF	ONVIF	ONVIF	ONVIF
Motion Detection	√	√	√	√	√	√
Aisle Mode	√	√	√	√	√	√
Smart Analysis	√	√	√	√	√	√
PoE	√	√	√	√	√	√
IR distance	30-50m	30-50m	50-70m	20-30m	10-20m	20-30m
Water-proof Standrad	IP66	IP66	IP66	IP66	IP66	IP66
Power Supply	DC12V / PoE	DC12V/PoE	DC12V/PoE	DC12V/PoE	DC12V/PoE	DC12V/PoE
Power Consumption	<3W	<2.5W	<2.5W	<3W	<2.5W	<3W
IR Consumption ON	<7.5W	<7W	<6W	<5.5W	<4.5W	<5.5W
Operating Environment	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity	-20°C ~ 50°C , 10% ~ 90% humidity
Dimensions ( mm )	Ø108×270	Ø108×270	Ø108×357	Ø150×110	Φ116×91	Ø150×110



Speed Dome

Series	3MP H.265 Star Light IP Speed Dome	3MP H.265 IP Speed Dome	3MP H.265 IP Speed Dome	3MP H.265 IP&AHD&TVI Hybrid Speed Dome	4" 2MP H.265 IP Speed Dome	4" 3MP H.265 IP Speed Dome
Model	TD-9632M2	TD-9630E2	TD-9631E2	TD-9632AE2	TD-9627E2	TD-9637E2
Photo						
Image Sensor	1/2.8"CMOS	1 / 2.8" CMOS	1 / 2.8" CMOS	1/2.8"CMOS	1/2.9"CMOS	1/2.8"CMOS
Min.Illumination	0Lux	0Lux	0.1Lux	0Lux	0Lux	0Lux
Day/Night	√	√	√	√	√	√
3D DNR	√	√	√	√	√	√
Backlight compensation	√	√	√	√	√	√
Lens Mount	5.5~110 mm , F1.6~3.5	5.5~110 mm , F1.6~3.5	√	5.5~110 mm , F1.6~3.5	5.4~97 mm	5.5~88 mm
Zoom	20xOptical Zoom	20x Optical Zoom	20x Optical Zoom	20xOptical Zoom	18x Optical Zoom	16x Optical Zoom
Pan Range	360° endless rotation	360° endless rotation	360° endless rotation	360° endless rotation	360° endless rotation	360° endless rotation
Pan Speed	Manual Control Speed : 0.1°~120°/s, Preset Speed : 240°/s	Manual Control Speed : 0.1°~120°/s, Preset Speed : 240°/s	Manual Control Speed : 0.1°~120°/s, Preset Speed : 240°/s	Manual Control Speed : 0.5°~90°/s, Preset Speed : 240°/s	Manual Control Speed : 0.1°~120°/s, Preset Speed : 160°/s	Manual Control Speed : 0.1°~120°/s, Preset Speed : 160°/s
Tilt Range	0~93°	0~90°	0~90°	0~93°	0~90°	0~90°
Tilt Speed	Manual Control Speed : 0.1°~90°/s Preset Speed : 200°/s	Manual Control Speed : 0.1°~90°/s Preset Speed : 360°/s	Manual Control Speed : 0.1°~90°/s Preset Speed : 360°/s	Manual Control Speed : 0.5°~90°/s Preset Speed : 160°/s	Manual Control Speed : 0.1°~50°/s Preset Speed : 50°/s	Manual Control Speed : 0.1°~50°/s Preset Speed : 50°/s
Preset	360	360	360	360	256	256
Cruise	8	8	8	8	8	8
Scam	2	2	2	2	2	2
Track	4	4	4	4	4	4
Time Task	8	8	8	8	8	8
Home Position	√	√	√	√	√	√
Auto Flip	√	√	√	√	√	√
Power Off Memory	√	√	√	√	√	√
OSD Menu	√	√	√	√	√	√
Video Compression	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG
Resolution	3MP ( 2048 ×1536 ),VGA ( 640 × 480 )	3MP ( 2048 ×1536 ),2MP ( 1920 ×1080 ) ,1.3MP ( 1280 ×960 ),D1,CIF,480 × 240	3MP ( 2048 ×1536 ),2MP ( 1920 ×1080 ) ,1.3MP ( 1280 ×960 ),D1,CIF,480 × 240	3MP ( 2048 ×1536 ), D1,CIF, 480 × 240	2MP ( 1920 ×1080 ) ,1.3MP ( 1280 ×960 ),640 × 480	3MP ( 2048 ×1536 ),2MP ( 1920 × 1080 ) ,1.3MP ( 1280 ×960 ),640 × 480
Network	RJ45x1 , 10M/100M self-adaptive	RJ45x1 , 10M/100M self-adaptive	RJ45x1 , 10M/100 self-adaptive	RJ45x1 , 10M/100M self-adaptive	RJ45x1 , 10M/100 self-adaptive	RJ45x1 , 10M/100 self-adaptive
CVBS Output	√	√	√	-	-	-
Audio	MIC IN×1 , MIC OUT×1	MIC IN×1 , MIC OUT×1	MIC IN×1 , MIC OUT×1	MIC IN×1 , MIC OUT×1	MIC IN×1 , MIC OUT×1	MIC IN×1 , MIC OUT×1
RS485	√	√	√	-	-	-
Alarm	7ch alarm in, 1ch alarm Out	4ch alarm in, 1ch alarm Out	4ch alarm in, 1ch alarm Out	1ch alarm in, 1ch alarm Out	-	-
Storage Card	√	√	√	√	√	√
Motion Detection	√	√	√	√	√	√
IR distance	150m	-	-	120m	50m	50m
Power Supply	AC 24V 3000 mA	DC 24V 3000 mA	DC 24V 3000 mA	AC 24V 3000 mA	DC 12V 4000 mA	DC 12V 4000 mA
Power Consumption	15W	9W	9W	15W	15W	15W
IR Consumption ON	< 65W	< 30W	< 30W	< 30W	< 30W	< 30W
Operating Environment	-30 ~ 60°C; humidity: less than 95%	-30 ~ 60°C; humidity: less than 95%	-20 ~ 40°C; humidity: less than 95%	-20 ~ 60°C , humidity: less than 95%	-30 ~ 60°C , humidity: less than 90%	-30 ~ 60°C , humidity: less than 90%
Water-proof Standrad	IP66, IK10, TVS6KV lightning protection, surge protection	IP66, IK10, TVS6KV lightning protection, surge protection	TVS6KV lightning protection, surge protection	IP66, TVS6KV lightning protection, surge protection	IP66, IK10, TVS6KV lightning protection, surge protection	IP66, IK10, TVS6KV lightning protection, surge protection
Dimensions ( mm )	Φ 215.94 × 348.5	Φ 220 × 290	Φ 210 × 240	Φ 209× 317	Φ 136 × 222	Φ 136 × 222

Accessories

	TD-YZJ0202 Wall Mount	YZJ0202+YZJ0501 Pole Mount	YZJ0202+YZJ0601 Corner Mount	YXH0303+YZJ0812 Ceiling Mount	YXH0303+YZJ0408 Wall Mount	YXH0303+YZJ0408+YZJ0501 Pole Mount	YXH0303+YZJ0408+YZJ0601 Corner Mount
	TD-YXH0103 Junction Box	YXH0302 Junction Box	YXH0302+YZJ0811 Ceiling Mount	YXH0302+YZJ0407 Wall Mount	YXH0302+YZJ0407+YZJ0501 Pole Mount	YXH0302+YZJ0407+YZJ0601 Corner Mount	YZJ0203 Wall Mount
	TD-YXH0205 Junction Box	YXH0303 Junction Box	YXH0303+YZJ0812 Ceiling Mount	YXH0303+YZJ0408 Wall Mount	YXH0303+YZJ0408+YZJ0501 Pole Mount	YXH0303+YZJ0408+YZJ0601 Corner Mount	YZJ0204 Wall Mount
	YXH0101 Junction Box	YXH0101+YZJ0806 Ceiling Mount	YXH0101+YZJ0405 Wall Mount	YXH0101+YZJ0405+YZJ0501 Pole Mount	YXH0101+YZJ0405+YZJ0601 Corner Mount		YZJ0203 Wall Mount

Accessories

	<b>YXH0302</b>	<b>TD-YXH0101</b>		<b>TD-YXH0103</b>	<b>YXH0301</b>
	Junction Box	Junction Box		Junction Box	Junction Box
					





	<b>YZJ0809</b>	<b>YZJ0303</b>		<b>YZJ0102</b>	<b>YZJ0101</b>
	Ceiling Mount	Wall Mount		Wall Mount	Wall Mount
					

	<b>YZJ0807</b>	<b>YZJ0302</b>	<b>TD-YZJ0808</b>	<b>YZJ0501</b>	<b>YZJ0601</b>
	Ceiling Mount	Wall Mount	Wall Mount	Pole Mount	Corner Mount
					

	<b>YZJ0804</b>	<b>YZJ0301</b>	<b>YZJ0501</b>	<b>YZJ0601</b>
	Ceiling Mount	Wall Mount	Pole Mount	Corner Mount
				




## H.265 NVR-C Series

Series	H.265 POE NVR	H.265 POE NVR	H.265 POE NVR	H.265 Non-POE NVR	H.265 Non-POE NVR	H.265 Non-POE NVR	
Model	TD-3204H1-4P-C	TD-3208H1-8P-C	TD-3208H2-8P-C	TD-3204H1-C	TD-3208H1-C	TD-3208H2-C	
Picture							
Video/Audio input	IPC video input	4 CH	8 CH	8 CH	4 CH	8 CH	
	IPC audio input	4 CH IPC input	8 CH IPC input	8 CH IPC input	4 CH IPC input	8 CH IPC input	
Video/Audio output	HDMI	1 CH , 1920 × 1080 / 1280×1024	1 CH , 1920 × 1080 / 1280×1024	1 CH , 1920 × 1080 / 1280×1024	1 CH , 1920 × 1080 / 1280×1024	1 CH , 1920 × 1080 / 1280×1024	
	VGA	HDMI-VGA cable optional	HDMI-VGA cable optional	HDMI-VGA cable optional	HDMI-VGA cable optional	HDMI-VGA cable optional	
	Audio output	1 CH	1 CH	1 CH	1 CH	1 CH	
	Two-way audio	/	/	/	/	/	1 CH
Record	Video compression	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	
	Resolution	5MP / 4MP / 3MP / 1080P / 960P / 720P	5MP / 4MP / 3MP / 1080P / 960P / 720P	5MP / 4MP / 3MP / 1080P / 960P / 720P	5MP / 4MP / 3MP / 1080P / 960P / 720P	5MP / 4MP / 3MP / 1080P / 960P / 720P	5MP / 4MP / 3MP / 1080P / 960P / 720P
	Frame rate	1-25fps	1-25fps	1-25fps	1-25fps	1-25fps	1-25fps
	Bit rate	128Kbps-10Mbps	128Kbps-10Mbps	128Kbps-10Mbps	128Kbps-10Mbps	128Kbps-10Mbps	128Kbps-10Mbps
	Audio compression	G.711A/G.711U	G.711A/G.711U	G.711A/G.711U	G.711A/G.711U	G.711A/G.711U	G.711A/G.711U
	Dual stream	support	support	support	support	support	support
Storage	Record stream	dual stream	dual stream	dual stream	dual stream	dual stream	
	Sata interface	1	1	2	1	2	
	E-sata interface	/	/	/	/	/	/
External Interface	Ethernet	RJ45 10M/100M × 1	RJ45 10M/100M × 1	RJ45 10M/100M × 1	RJ45 10M/100M × 1	RJ45 10M/100M × 1	
	POE	RJ45 × 4	RJ45 × 8	RJ45 × 8	/	/	
	Serial interface	/	/	/	/	/	/
	USB	USB2.0 × 2	USB2.0 × 2	USB2.0 × 2	USB2.0 × 2	USB2.0 × 2	USB2.0 × 2
	Alarm-in	/	/	/	/	/	/
	Alarm-out	/	/	/	/	/	/
Others	Power supply	DC48V	DC48V	DC48V	DC12V	DC12V	
	Consumption	≤ 5W ( without HDD )	≤ 5W ( without HDD )	≤ 5W ( without HDD )	≤ 5W ( without HDD )	≤ 5W ( without HDD )	≤ 5W ( without HDD )
	Working environment	-10 ~ 50°C , 10% ~ 90% humidity	-10 ~ 50°C , 10% ~ 90% humidity	-10 ~ 50°C , 10% ~ 90% humidity	-10 ~ 50°C , 10% ~ 90% humidity	-10 ~ 50°C , 10% ~ 90% humidity	-10 ~ 50°C , 10% ~ 90% humidity
	Remote controller	support	support	support	support	support	support
	Case	mini 1U case	mini 1U case	1U case	mini 1U case	mini 1U case	1U case
	Dimensions ( mm )	300 × 248 × 52 ( W × D × H )	300 × 248 × 52 ( W × D × H )	380 × 268 × 52 ( W × D × H )	300 × 248 × 52 ( W × D × H )	300 × 248 × 52 ( W × D × H )	380 × 268 × 52 ( W × D × H )





## H.265 POE NVR

Model	TD-3204H1-4P	TD-3208H1-8P	TD-3208H2-8P	TD-3332H4-16P	TD-3532H8-16P	
Picture						
Video/Audio input	IPC video input	4 CH	8 CH	8 CH	32 CH	
	IPC audio input	4 CH IPC input	8 CH IPC input	8 CH IPC input	32 CH IPC input	
Video/Audio output	HDMI	1 CH , 4K×2K/1920 × 1080 / 1280×1024	1 CH , 4K×2K/1920 × 1080 / 1280×1024	1 CH , 4K×2K/1920 × 1080 / 1280×1024	1 CH , 4K×2K/1920 × 1080 / 1280×1024	
	VGA	HDMI-VGA cable optional	HDMI-VGA cable optional	1 CH , 1920 × 1080 / 1280×1024	1 CH , 1920 × 1080 / 1280×1024	
	Audio output	1 CH	1 CH	1 CH	1 CH	
	Two-way audio	1 CH	1 CH	1 CH	1 CH	
Record	Video compression	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	
	Resolution	8MP / 5MP / 4MP / 3MP / 1080P / 960P / 720P	8MP / 5MP / 4MP / 3MP / 1080P / 960P / 720P	8MP / 5MP / 4MP / 3MP / 1080P / 960P / 720P	8MP / 5MP / 4MP / 3MP / 1080P / 960P / 720P	8MP / 5MP / 4MP / 3MP / 1080P / 960P / 720P
	Frame rate	1-25fps	1-25fps	1-25fps	1-25fps	1-25fps
	Bit rate	128Kbps-10Mbps	128Kbps-10Mbps	128Kbps-10Mbps	128Kbps-10Mbps	128Kbps-10Mbps
	Audio compression	G.711A/G.711U	G.711A/G.711U	G.711A/G.711U	G.711A/G.711U	G.711A/G.711U
	Dual stream	support	support	support	support	support
Storage	Record stream	dual stream	dual stream	dual stream	dual stream	
	Sata interface	1	1	2	4	
	E-sata interface	/	/	/	/	
External Interface	Ethernet	RJ45 10M/100M × 1	RJ45 10M/100M × 1	RJ45 10M/100M × 1	RJ45 10M/100M/1000M × 1	
	POE	RJ45 × 4	RJ45 × 8	RJ45 × 8	RJ45 × 16	
	Serial interface	/	/	/	RS-485 × 2	
	USB	USB2.0 × 2	USB2.0 × 2	USB2.0 × 2	USB2.0 × 1 , USB3.0 × 1	
	Alarm-in	/	/	/	16	
	Alarm-out	/	/	/	4	
Others	Power supply	DC48V	DC48V	DC48V	ATX	
	Consumption	≤ 5W ( without HDD )	≤ 5W ( without HDD )	≤ 5W ( without HDD )	≤ 30W ( without HDD )	
	Working environment	-10 ~ 50°C , 10% ~ 90% humidity	-10 ~ 50°C , 10% ~ 90% humidity	-10 ~ 50°C , 10% ~ 90% humidity	-10 ~ 50°C , 10% ~ 90% humidity	
	Remote controller	support	support	support	support	
	Case	mini 1U case	mini 1U case	1U case	new 1.5U case	
	Dimensions ( mm )	300 × 248 × 52 ( W × D × H )	300 × 248 × 52 ( W × D × H )	380 × 268 × 52 ( W × D × H )	440 × 393 × 80 ( W × D × H )	



## H.265 Non-POE NVR

Model	TD-3204H1	TD-3208H1	TD-3216H1	TD-3332H2	TD-3316H2	TD-3308H2
Picture						
Video/Audio input	4 CH	8 CH	16 CH	32 CH	16 CH	8 CH
Video/Audio output	4 CH IPC input	8 CH IPC input	16 CH IPC input	32 CH IPC input	16 CH IPC input	8 CH IPC input
Video/Audio output	HDMI	1 CH, 4K×2K/1920 × 1080 / 1280×1024	1 CH, 4K×2K/1920 × 1080 / 1280×1024	1 CH, 4K×2K/1920 × 1080 / 1280×1024	1 CH, 4K×2K/1920 × 1080 / 1280×1024	1 CH, 4K×2K/1920 × 1080 / 1280×1024
Video/Audio output	VGA	HDMI-VGA cable optional	HDMI-VGA cable optional	HDMI-VGA cable optional	1 CH, 1920 × 1080 / 1280×1024	1 CH, 1920 × 1080 / 1280×1024
Video/Audio output	Audio output	1 CH	1 CH	1 CH	1 CH	1 CH
Video/Audio output	Two-way audio	/	1 CH	1 CH	1 CH	1 CH
Record	Video compression	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264
Record	Resolution	8MP / 5MP / 4MP / 3MP / 1080P / 960P / 720P	8MP / 5MP / 4MP / 3MP / 1080P / 960P / 720P	8MP / 5MP / 4MP / 3MP / 1080P / 960P / 720P	8MP / 5MP / 4MP / 3MP / 1080P / 960P / 720P	8MP / 5MP / 4MP / 3MP / 1080P / 960P / 720P
Record	Frame rate	1-25fps	1-25fps	1-25fps	1-25fps	1-25fps
Record	Bit rate	128Kbps-10Mbps	128Kbps-10Mbps	128Kbps-10Mbps	128Kbps-10Mbps	128Kbps-10Mbps
Record	Audio compression	G.711A/G.711U	G.711A/G.711U	G.711A/G.711U	G.711A/G.711U	G.711A/G.711U
Record	Dual stream	support	support	support	support	support
Record	Record stream	dual stream	dual stream	dual stream	dual stream	dual stream
Storage	Sata interface	1	1	1	2	2
Storage	E-sata interface	/	/	/	/	/
External Interface	Ethernet	RJ45 10M/100M × 1	RJ45 10M/100M × 1	RJ45 10M/100M × 1	RJ45 10M/100M/1000M × 1	RJ45 10M/100M/1000M × 1
External Interface	POE	/	/	/	/	/
External Interface	Serial interface	/	/	/	/	/
External Interface	USB	USB2.0 × 2	USB2.0 × 2	USB2.0 × 2	USB2.0 × 1, USB3.0 × 1	USB3.0 × 1, USB2.0 × 1
External Interface	Alarm-in	/	4 CH	4 CH	/	/
External Interface	Alarm-out	/	1 CH	1 CH	/	/
Others	Power supply	DC12V	DC12V	DC12V	DC12V	DC12V
Others	Consumption	≤ 5W ( without HDD )	≤ 5W ( without HDD )	≤ 5W ( without HDD )	≤ 15W ( without HDD )	≤ 15W ( without HDD )
Others	Working environment	-10~50°C, 10%~90% humidity	-10~50°C, 10%~90% humidity	-10~50°C, 10%~90% humidity	-10~50°C, 10%~90% humidity	-10~50°C, 10%~90% humidity
Others	Remote controller	support	support	support	support	support
Others	Case	mini 1U case	mini 1U case	mini 1U case	1U case	1U case
Others	Dimensions ( mm )	300 × 248 × 52 ( W × D × H )	300 × 248 × 52 ( W × D × H )	300 × 248 × 52 ( W × D × H )	430 × 300 × 55 ( W × D × H )	380 × 268 × 52 ( W × D × H )



## H.265 Non-POE NVR

Model	TD-3316H4	TD-3332H4	TD-3516H8	TD-3532H8	TD-3564H8	
Picture						
Video/Audio input	16 CH	32 CH	16 CH	32 CH	64 CH	
Video/Audio output	16 CH IPC input	32 CH IPC input	16 CH IPC input	32 CH IPC input	64 CH IPC input	
Video/Audio output	HDMI	1 CH, 4K×2K/1920 × 1080 / 1280×1024	1 CH, 4K×2K/1920 × 1080 / 1280×1024	1 CH : 4K×2K, 1 CH : 1920 × 1080 / 1280×1024	1 CH : 4K×2K, 1 CH : 1920 × 1080 / 1280×1024	
Video/Audio output	VGA	1 CH, 1920 × 1080 / 1280×1024	1 CH, 1920 × 1080 / 1280×1024	1 CH, 1920 × 1080 / 1280×1024	1 CH, 1920 × 1080 / 1280×1024	
Video/Audio output	Audio output	1 CH	1 CH	1 CH	1 CH	
Video/Audio output	Two-way audio	1 CH	1 CH	1 CH	1 CH	
Record	Video compression	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	
Record	Resolution	8MP / 5MP / 4MP / 3MP / 1080P / 960P / 720P	8MP / 5MP / 4MP / 3MP / 1080P / 960P / 720P	8MP / 5MP / 4MP / 3MP / 1080P / 960P / 720P	8MP / 5MP / 4MP / 3MP / 1080P / 960P / 720P	8MP / 5MP / 4MP / 3MP / 1080P / 960P / 720P
Record	Frame rate	1-25fps	1-25fps	1-25fps	1-25fps	
Record	Bit rate	128Kbps-10Mbps	128Kbps-10Mbps	128Kbps-10Mbps	128Kbps-10Mbps	
Record	Audio compression	G.711A/G.711U	G.711A/G.711U	G.711A/G.711U	G.711A/G.711U	
Record	Dual stream	support	support	support	support	
Record	Record stream	dual stream	dual stream	dual stream	dual stream	
Storage	Sata interface	4	4	8	8	
Storage	E-sata interface	/	/	2, support external storage	2, support external storage	
External Interface	Ethernet	RJ45 10M/100M/1000M × 1	RJ45 10M/100M/1000M × 1	RJ45 10M/100M/1000M × 2	RJ45 10M/100M/1000M × 2	
External Interface	POE	/	/	/	/	
External Interface	Serial interface	RS-485 × 2	RS-485 × 2	RS-485 × 2	RS-485 × 2	
External Interface	USB	USB2.0 × 1, USB3.0 × 1	USB2.0 × 1, USB3.0 × 1	USB2.0 × 1, USB3.0 × 1	USB2.0 × 1, USB3.0 × 1	
External Interface	Alarm-in	8	8	8 CH	8 CH	
External Interface	Alarm-out	4	4	4 CH	4 CH	
Others	Power supply	ATX	ATX	ATX	ATX	
Others	Consumption	≤ 30W ( without HDD )	≤ 30W ( without HDD )	≤ 30W ( without HDD )	≤ 30W ( without HDD )	
Others	Working environment	-10~50°C, 10%~90% humidity	-10~50°C, 10%~90% humidity	-10~50°C, 10%~90% humidity	-10~50°C, 10%~90% humidity	
Others	Remote controller	support	support	support	support	
Others	Case	1.5U case	1.5U case	2U case	2U case	
Others	Dimensions ( mm )	440 × 393 × 80 ( W × D × H )	440 × 393 × 80 ( W × D × H )	430 × 450 × 100 ( W × D × H )	430 × 450 × 100 ( W × D × H )	



## 720P 5 in 1 Hybrid DVR-Economical Line

Model	TD-2104TS-CL	TD-2108TS-CL	TD-2116TS-CL
Picture			
Video/Audio input	Video input	BNC × 4 TVI/AHD/CVI 1080P Lite, 720P, WD1 real time	BNC × 8 TVI/AHD/CVI 1080P Lite, 720P, WD1 real time
	IPC V/A input	1 CH	1 CH
	Audio input	1 CH	1 CH
Video/Audio output	HDMI	HDMI × 1: 1920 × 1080 / 1280×1024	HDMI × 1: 1920 × 1080 / 1280×1024
	VGA	VGA × 1: 1920 × 1080 / 1280×1024	VGA × 1: 1920 × 1080 / 1280×1024
	CVBS	/	/
	SPOT	/	/
	LOOP	/	/
	Audio output	RCA × 1	RCA × 1
	Two-way audio	take up channel one audio input	take up channel one audio input
	Record	Video compression	H.264
Record	Resolution	1080P Lite /720P/WD1	1080P Lite /720P/720P Lite/WD1
	Recording Capacity	4 CH 1080P Lite/720P/WD1@25fps 1 CH IPC 1080P/960P/720P 25fps	8 CH 1080P Lite/720P@12fps or 8 CH 720P Lite/WD1@25fps 1 CH IPC 1080P/960P/720P 25fps
	Bite rate	768Kbps-4Mbps	768Kbps-4Mbps
	Audio compression	G.711A/G.711U	G.711A/G.711U
	Storage	Sata interface	1
External interface	E-sata interface	/	/
	Ethernet	RJ45 10M/100M × 1	RJ45 10M/100M × 1
	Serial interface	/	/
	USB	USB2.0 × 2	USB2.0 × 2
	Alarm-in	/	/
	Alarm-out	/	/
	Others	Coaxial cable control	support
Others	Power supply	DC12V	DC12V
	Consumption	≤ 5W ( without HDD )	≤ 5W ( without HDD )
	Working environment	-10 ~ 50°C , 10% ~ 90% humidity	-10 ~ 50°C , 10% ~ 90% humidity
	Remote controller	support	support
	Case	NS	NS
	Dimensions ( mm )	255 × 233 × 42 ( W × D × H )	255 × 233 × 42 ( W × D × H )






## 1080P 5 in 1 Hybrid DVR-Economical Line

Model	TD-2104TS-C	TD-2108TS-C	TD-2116TS-C
Picture			
Video/Audio input	Video input	BNC × 4 TVI/AHD/CVI 1080P, 720P, WD1 real time	BNC × 8 TVI/AHD/CVI 1080P, 720P, WD1 real time
	IPC V/A input	1 CH	1 CH
	Audio input	1 CH	1 CH
Video/Audio output	HDMI	HDMI × 1: 1920 × 1080 / 1280×1024	HDMI × 1: 1920 × 1080 / 1280×1024
	VGA	VGA × 1: 1920 × 1080 / 1280×1024	VGA × 1: 1920 × 1080 / 1280×1024
	CVBS	/	/
	SPOT	/	/
	LOOP	/	/
	Audio output	RCA × 1	RCA × 1
	Two-way audio	take up channel one audio input	take up channel one audio input
	Record	Video compression	H.264
Record	Resolution	1080P/1080P Lite /720P/ WD1	1080P/1080P Lite /720P/ WD1
	Recording Capacity	4 CH 1080P Lite/720P /WD1 @25fps or 4 CH 1080P@12fps 1 CH IPC 1080P/960P/720P @25fps	8 CH 1080P Lite/720P /WD1 @25fps or 8 CH 1080P@12fps 1 CH IPC 3MP@12fps or 1 CH IPC 1080P/960P/720P@25fps
	Bite rate	768Kbps-8Mbps	768Kbps-8Mbps
	Audio compression	G.711A/G.711U	G.711A/G.711U
	Storage	Sata interface	1
External interface	E-sata interface	/	/
	Ethernet	RJ45 10M/100M × 1	RJ45 10M/100M × 1
	Serial interface	/	/
	USB	USB2.0 × 2	USB2.0 × 2
	Alarm-in	/	/
	Alarm-out	/	/
	Others	Coaxial cable control	support
Others	Power supply	DC12V	DC12V
	Consumption	≤ 5W ( without HDD )	≤ 5W ( without HDD )
	Working environment	-10 ~ 50°C , 10% ~ 90% humidity	-10 ~ 50°C , 10% ~ 90% humidity
	Remote controller	support	support
	Case	NS	NS
	Dimensions ( mm )	255 × 233 × 42 ( W × D × H )	255 × 233 × 42 ( W × D × H )




## 720P 5 in 1 Hybrid DVR

Model		TD-2704TS-CL	TD-2708TS-CL	TD-2716TS-CL
Picture				
Video/Audio input	Video input	BNC x 4, TVI/AHD/CVI 1080PLite, 720P, WD1	BNC x 8, TVI/AHD/CVI 1080P Lite, 720P, 720P Lite, WD1	BNC x 16, TVI/AHD/CVI 1080P Lite, 720P, 720P Lite, WD1
	IPC V/A input	1 CH	1 CH	2 CH
	Audio input	1 CH	1 CH	1 CH
Video/Audio output	HDMI	HDMI x 1: 1920 x 1080 / 1280x1024	HDMI x 1: 1920 x 1080 / 1280x1024	HDMI x 1: 1920 x 1080 / 1280x1024
	VGA	VGA x 1: 1920 x 1080 / 1280x1024	VGA x 1: 1920 x 1080 / 1280x1024	VGA x 1: 1920 x 1080 / 1280x1024
	CVBS	BNC x 1	BNC x 1	BNC x 1
	SPOT	share BNC with CVBS	share BNC with CVBS	share BNC with CVBS
	LOOP	/	/	/
	Audio output	RCA x 1	RCA x 1	RCA x 1
	Two-way audio	take up channel one audio input	take up channel one audio input	take up channel one audio input
Record	Video compression	H.264	H.264	H.264
	Resolution	1080P Lite /720P/WD1	1080P Lite /720P/720P Lite/WD1	1080P Lite /720P/720P Lite/WD1
	Recording Capacity	4 CH 1080P Lite/720P/WD1@25fps 1 CH IPC 2MP@25fps	8 CH 1080P Lite/720P@12fps or 8 CH 720P Lite/WD1@25fps 1 CH IPC 2MP@25fps	16 CH 1080P Lite/720P@12fps or 16 CH 720P Lite/WD1@25fps 2 CH IPC 3MP@25fps
	Bite rate	768Kbps-4Mbps	768Kbps-4Mbps	768Kbps-4Mbps
	Audio compression	G.711A/G.711U	G.711A/G.711U	G.711A/G.711U
Storage	Sata interface	1	1	1
	E-sata interface	/	/	/
External interface	Ethernet	RJ45 10M/100M x 1	RJ45 10M/100M x 1	RJ45 10M/100M x 1
	Serial interface	RS-485 x 1	RS-485 x 1	RS-485 x 1
	USB	USB2.0 x 2	USB2.0 x 2	USB2.0 x 2
	Alarm-in	/	/	/
	Alarm-out	/	/	/
Others	Coaxial cable control	support	support	support
	Power supply	DC12V	DC12V	DC12V
	Consumption	≤ 6W ( without HDD )	≤ 6W ( without HDD )	≤ 8W ( without HDD )
	Working environment	-10 ~ 50°C , 10% ~ 90% humidity	-10 ~ 50°C , 10% ~ 90% humidity	-10 ~ 50°C , 10% ~ 90% humidity
	Remote controller	support	support	support
	Case	mini 1U case	mini 1U case	mini 1U case
	Dimensions ( mm)	300 x 248 x 52 ( W x D x H )	300 x 248 x 52 ( W x D x H )	300 x 248 x 52 ( W x D x H )





## 1080P 5 in 1 Hybrid DVR

Model		TD-2704TS-C	TD-2708TS-C	TD-2716TE-C	TD-2732TE-C	TD-2732TC-C	TD-2732TD-C-A
Picture							
Video/Audio input	Video input	BNC x 4, TVI/AHD/CVI 1080P, 720P, WD1	BNC x 8, TVI/AHD/CVI 1080P, 720P, WD1	BNC x 16, TVI/AHD/CVI 1080P, 720P, WD1	BNC x 32, TVI/AHD/CVI 1080P, 720P, WD1	BNC x 32, TVI/AHD/CVI 1080P, 720P, WD1	BNC x 32, TVI/AHD/CVI 1080P, 720P, WD1
	IPC V/A input	1 CH	1 CH	4 CH	/	/	/
		4 CH	4 CH	4 CH	4 CH	4 CH	16 CH
Video/Audio output	HDMI	HDMI x 1: 1920 x 1080 / 1280x1024	HDMI x 1: 1920 x 1080 / 1280x1024	HDMI x 1: 1920 x 1080 / 1280x1024	HDMI x 1: 1920 x 1080 / 1280x1024	HDMI x 1: 1920 x 1080 / 1280x1024	HDMI x 1: 1920 x 1080 / 1280x1024
	VGA	VGA x 1: 1920 x 1080 / 1280x1024	VGA x 1: 1920 x 1080 / 1280x1024	VGA x 1: 1920 x 1080 / 1280x1024	VGA x 1: 1920 x 1080 / 1280x1024	VGA x 1: 1920 x 1080 / 1280x1024	VGA x 1: 1920 x 1080 / 1280x1024
	CVBS	BNC x 1	BNC x 1	BNC x 1	BNC x 1	BNC x 1	BNC x 1
	SPOT	share BNC with CVBS	share BNC with CVBS	share BNC with CVBS	share BNC with CVBS	share BNC with CVBS	share BNC with CVBS
	LOOP	/	/	/	/	/	/
	Audio output	RCA x 1	RCA x 1	RCA x 1	RCA x 1	RCA x 1	RCA x 1
	Two-way audio	take up channel one audio input	take up channel one audio input	take up channel one audio input	take up channel one audio input	take up channel one audio input	take up channel one audio input
Record	Video compression	H.264	H.264	H.264	H.264	H.264	H.264
	Resolution	1080P/1080P Lite /720P	1080P/1080P Lite /720P	1080P/1080P Lite /720P	1080P/1080P Lite /720P/WD1	1080P/1080P Lite /720P/WD1	1080P/1080P Lite /720P/WD1
	Recording Capacity	4 CH 1080P Lite/720P@25fps or 4 CH 1080P@12fps 1 CH IPC 2MP@25fps	8 CH 1080P Lite/720P@25fps or 8 CH 1080P@12fps 1 CH IPC 3MP@12fps	16 CH 1080P Lite/720P@25fps or 16 CH 1080P@12fps 4 CH IPC 3MP@25fps	32 CH 1080P Lite/720P/WD1@25fps or 32 CH 1080P@12fps	32 CH 1080P Lite/720P/WD1@25fps or 32 CH 1080P@12fps	32 CH 1080P Lite/720P/WD1@25fps or 32 CH 1080P@12fps
	Bite rate	768Kbps-8Mbps	768Kbps-8Mbps	768Kbps-8Mbps	768Kbps-8Mbps	768Kbps-8Mbps	768Kbps-8Mbps
	Audio compression	G.711A/G.711U	G.711A/G.711U	G.711A/G.711U	G.711A/G.711U	G.711A/G.711U	G.711A/G.711U
Storage	Sata interface	1	1	2	2	4	8
	E-sata interface	/	/	/	/	/	/
External interface	Ethernet	RJ45 10M/100M x 1	RJ45 10M/100M x 1	RJ45 10M/100M x 1	RJ45 10M/100M/1000M x 1	RJ45 10M/100M/1000M x 1	RJ45 10M/100M/1000M x 1
	Serial interface	RS-485 x 1	RS-485 x 1	RS-485 x 1	RS-485 x 1	RS-485 x 1	RS-485 x 2
	USB	USB2.0 x 2	USB2.0 x 2	USB2.0 x 2	USB2.0 x 1, USB3.0 x 1	USB2.0 x 1, USB3.0 x 1	USB2.0 x 1, USB3.0 x 1
	Alarm-in	4	4	4	4	4	16
	Alarm-out	1	1	1	1	1	4
Others	Coaxial cable control	support	support	support	support	support	support
	Power supply	DC12V	DC12V	DC12V	DC12V	ATX	ATX
	Consumption	≤ 5W ( without HDD )	≤ 8W ( without HDD )	≤ 15W ( without HDD )	≤ 15W ( without HDD )	≤ 20W ( without HDD )	≤ 40W ( without HDD )
	Working environment	-10 ~ 50°C , 10% ~ 90% humidity	-10 ~ 50°C , 10% ~ 90% humidity	-10 ~ 50°C , 10% ~ 90% humidity	-10 ~ 50°C , 10% ~ 90% humidity	-10 ~ 50°C , 10% ~ 90% humidity	-10 ~ 50°C , 10% ~ 90% humidity
	Remote controller	support	support	support	support	support	support
	Case	mini 1U case	mini 1U case	1U case	1U case	1.5U case	2U case
	Dimensions ( mm)	300 x 248 x 52 ( W x D x H )	300 x 248 x 52 ( W x D x H )	380 x 268 x 52 ( W x D x H )	380 x 268 x 52 ( W x D x H )	440 x 393 x 80 ( W x D x H )	430 x 450 x 100 ( W x D x H )

## 5MP TVI/AHD Hybrid DVR

Model		TD-2704TS-PR	TD-2708TS-PR	TD-2708TE-PR
Picture			 4K	 4K
Video/Audio input	Video input	BNC × 4 TVI/AHD : 5MP, 4MP, 3MP, 1080P, 720P, WD1 real time	BNC × 8 TVI/AHD : 5MP, 4MP, 3MP, 1080P, 720P, WD1 real time	BNC × 8 TVI/AHD : 5MP, 4MP, 3MP, 1080P, 720P, WD1 real time
	IPC V/A input	1 CH	4 CH	4 CH
	Audio input	4 CH	1 CH	4 CH
Video/Audio output	HDMI	HDMI × 1: 2560 × 1440 / 1920 × 1080 / 1280 × 1024	HDMI × 1: 4K × 2K/1920 × 1080 / 1280 × 1024	HDMI × 1: 4K × 2K/1920 × 1080 / 1280 × 1024
	VGA	VGA × 1: 1920 × 1080 / 1280 × 1024	VGA × 1: 1920 × 1080 / 1280 × 1024	VGA × 1: 1920 × 1080 / 1280 × 1024
	CVBS	BNC × 1	BNC × 1	BNC × 1
	SPOT	share BNC with CVBS	share BNC with CVBS	share BNC with CVBS
	LOOP	/	/	/
	Audio output	RCA × 1	RCA × 1	RCA × 1
	Two-way audio	take up channel one audio input	take up channel one audio input	take up channel one audio input
	Video compression	H.264	H.264	H.264
Record	Resolution	5MP/4MP/3MP/1080P/720P/WD1	5MP/4MP/3MP/1080P/720P/WD1	5MP/4MP/3MP/1080P/720P/WD1
	Recording Capacity	4 CH 5MP@10fps or 3MP/4MP@12fps or 1080P/720P/WD1@25fps 1 CH IPC 3MP/1080P/960P/720P@25fps	8 CH 5MP@10fps or 3MP/4MP@12fps or 1080P/720P/WD1@25fps 4 CH IPC 4MP/3MP/1080P/960P@25fps	8 CH 5MP@10fps or 3MP/4MP@12fps or 1080P/720P/WD1@25fps 4 CH IPC 4MP/3MP/1080P/960P@25fps
	Bite rate	768Kbps-8Mbps	768Kbps-8Mbps	768Kbps-8Mbps
	Audio compression	G.711A/G.711U	G.711A/G.711U	G.711A/G.711U
	Storage	Sata interface E-sata interface	1 /	1 /
External interface	Ethernet	RJ45 10/100M × 1	RJ45 10/100M × 1	RJ45 10/100M × 1
	Serial interface	RS-485 × 1	RS-485 × 1	RS-485 × 1
	USB	USB2.0 × 2	USB2.0 × 1, USB3.0 × 1	USB2.0 × 1, USB3.0 × 1
	Alarm-in	4	/	4
	Alarm-out	1	/	1
Others	Coaxial cable control	support	support	support
	Power supply	DC12V	DC12V	DC12V
	Consumption	≤ 5W ( without HDD )	≤ 10W ( without HDD )	≤ 10W ( without HDD )
	Working environment	-10 ~ 50°C , 10% ~ 90% humidity	-10 ~ 50°C , 10% ~ 90% humidity	-10 ~ 50°C , 10% ~ 90% humidity
	Remote controller	support	support	support
	Case	mini 1U case	mini 1U case	1U case
	Dimensions ( mm)	300 × 248 × 52 ( W × D × H )	300 × 248 × 45 ( W × D × H )	380 × 268 × 52 ( W × D × H )

## 5MP AHD&amp;TVI Hybrid DVR

Model		TD-2716TE-PR	TD-2716TC-PR	TD-2716TD-PR	TD-2732TD-PR
Picture		 4K	 4K	 4K	 4K
Video/Audio input	Video input	BNC × 16 TVI/AHD : 5MP, 4MP, 3MP, 1080P, 720P, WD1 real time	BNC × 16 TVI/AHD : 5MP, 4MP, 3MP, 1080P, 720P, WD1 real time	BNC × 16 TVI/AHD : 5MP, 4MP, 3MP, 1080P, 720P, WD1 real time	BNC × 32 TVI/AHD : 5MP, 4MP, 3MP, 1080P, 720P, WD1 real time
	IPC V/A input	4 CH	4 CH	4 CH	4 CH
	Audio input	4 CH	16 CH	16 CH	32 CH
Video/Audio output	HDMI	HDMI × 1: 4K × 2K/1920 × 1080 / 1280 × 1024	HDMI × 1: 4K × 2K/1920 × 1080 / 1280 × 1024	HDMI × 1: 4K × 2K/1920 × 1080 / 1280 × 1024	HDMI × 1: 4K × 2K/1920 × 1080 / 1280 × 1024
	VGA	VGA × 1: 1920 × 1080 / 1280 × 1024	VGA × 1: 1920 × 1080 / 1280 × 1024	VGA × 1: 1920 × 1080 / 1280 × 1024	VGA × 1: 1920 × 1080 / 1280 × 1024
	CVBS	BNC × 1	BNC × 1	BNC × 1	BNC × 1
	SPOT	share BNC with CVBS	share BNC with CVBS	share BNC with CVBS	share BNC with CVBS
	LOOP	/	/	/	/
	Audio output	RCA × 1	RCA × 1	RCA × 1	RCA × 1
	Two-way audio	take up channel one audio input	RCA × 1	RCA × 1	RCA × 1
	Video compression	H.264	H.264	H.264	H.264
Record	Resolution	5MP/ 4MP/3MP/1080P/720P/WD1	5MP/4MP /3MP/1080P/720P/WD1	5MP/ 4MP/3MP/1080P/720P/WD1	5MP/ 4MP/3MP/1080P/720P/WD1
	Recording Capacity	16 CH 5MP@10fps or 4MP/3MP@12fps or 1080P/720P/WD1@25fps 4 CH IPC 4MP/3MP/1080P/960P@25fps	16 CH 5MP@10fps or 3MP/4MP@12fps or 1080P/720P/WD1@25fps 4 CH IPC 4MP/3MP/1080P@25fps	16 CH 5MP@10fps or 3MP/4MP@12fps or 1080P/720P/WD1@25fps 4 CH IPC 4MP/3MP/1080P@25fps	32 CH 5MP@10fps or 3MP/4MP@12fps or 1080P/720P/WD1@25fps 4 CH IPC 4MP/3MP/1080P@25fps
	Bite rate	768Kbps-8Mbps	768Kbps-8Mbps	768Kbps-8Mbps	768Kbps-8Mbps
	Audio compression	G.711A/G.711U	G.711A/G.711U	G.711A/G.711U	G.711A/G.711U
	Storage	Sata interface E-sata interface	2 /	4 /	8 /
External interface	Ethernet	RJ45 10/100/1000M × 1	RJ45 10/100/1000M × 1	RJ45 10/100/1000M × 1	RJ45 10/100/1000M × 1
	Serial interface	RS-485 × 1	RS-485 × 2	RS-485 × 2	RS-485 × 2
	USB	USB2.0 × 1, USB3.0 × 1	USB2.0 × 1, USB3.0 × 1	USB2.0 × 1, USB3.0 × 1	USB2.0 × 1, USB3.0 × 1
	Alarm-in	4	16	16	16
	Alarm-out	1	4	4	4
Others	Coaxial cable control	support	support	support	support
	Power supply	DC12V	ATX	ATX	ATX
	Consumption	≤ 15W ( without HDD )	≤ 20W ( without HDD )	≤ 20W ( without HDD )	≤ 40W ( without HDD )
	Working environment	-10 ~ 50°C , 10% ~ 90% humidity	-10 ~ 50°C , 10% ~ 90% humidity	-10 ~ 50°C , 10% ~ 90% humidity	-10 ~ 50°C , 10% ~ 90% humidity
	Remote controller	support	support	support	support
	Case	1U case	1.5U case	2U case	2U case
	Dimensions ( mm)	380 × 268 × 52 ( W × D × H )	440 × 390 × 70 ( W × D × H )	430 × 450 × 90 ( W × D × H )	430 × 450 × 90 ( W × D × H )







1080P 4 in 1 Hybrid Camera-S Series

Series	1080P TVI&AHD Hybrid Camera	1080P TVI&AHD Hybrid Camera	1080P TVI&AHD Hybrid Camera	1080P TVI&AHD Hybrid Camera
Model	TD-7421TS (D/IR1) TD-7421AS (D/IR1)	TD-7524TS (D/IR1) TD-7524AS (D/IR1)	TD-7420TS (D/IR1) TD-7420AS (D/IR1)	TD-7520TS (D/IR1) TD-7520AS (D/IR1)
Photo				
Resolution	1080P(1920 x 1080)	1080P(1920 x 1080)	1080P(1920 x 1080)	1080P(1920 x 1080)
Video Output	AHD/TVI/CVI/CVBS	AHD/TVI/CVI/CVBS	AHD/TVI/CVI/CVBS	AHD/TVI/CVI/CVBS
Image Sensor	1 / 3.6" CMOS	1 / 3.6" CMOS	1 / 3.6" CMOS	1 / 3.6" CMOS
Min.Illumination	0 Lux ( IR ON )	0 Lux ( IR ON )	0 Lux ( IR ON )	0 Lux ( IR ON )
Lens	3.6 mm @M12( 2.8 mm optional )	3.6 mm @M12( 2.8 mm optional )	3.6 mm @M12( 2.8 mm optional )	3.6 mm @M12( 2.8 mm optional )
Lens Adjustment	Fixed Lens	Fixed Lens	Fixed Lens	Fixed Lens
Day/Night	√	√	√	√
Wide Dynamic Range	Digital WDR	Digital WDR	Digital WDR	Digital WDR
Defog	√	√	-	-
BLC&HLC	√	√	√	√
Digital NR	√	√	√	√
Defect Correction	√	√	√	√
AGC	√	√	√	√
S/N Ratio	>52 dB(AGC off)	>52 dB(AGC off)	≥52 dB(AGC off)	≥52 dB(AGC off)
Electronic Shutter	1 / 50s ~ 1 / 100000s ( PAL ); 1 / 60s ~ 1 / 100000s ( NTSC )	1 / 50s ~ 1 / 100000s ( PAL ); 1 / 60s ~ 1 / 100000s ( NTSC )	1 / 50s ~ 1 / 100000s ( PAL ); 1 / 60s ~ 1 / 100000s ( NTSC )	1 / 50s ~ 1 / 100000s ( PAL ); 1 / 60s ~ 1 / 100000s ( NTSC )
White Balance	ATW, AWC--SET, Manual	ATW, AWC--SET, Manual	ATW, AWC--SET, Manual	ATW, AWC--SET, Manual
Function Control	OSD	OSD	OSD	OSD
IR distance	10 ~ 20m	10 ~ 20m	10 ~ 20m	10 ~ 20m
Water-proof Standrad	IP66	IP66	IP66	IP64
Power Supply	DC 12V	DC 12V	DC 12V ( ±10% )	DC 12V ( ±10% )
Power Consumption	<1W	<1W	<0.8W	<0.8W
IR Consumption ON	<3.7W	<3.7W	<2.9W	<2.9W
Operating Environment	- 20 °C ~ 50 °C, 10 % ~ 90 % humidity	- 20 °C ~ 50 °C, 10 % ~ 90 % humidity	- 20 °C ~ 50 °C, 10 % ~ 90 % humidity	- 20 °C ~ 50 °C, 10 % ~ 90 % humidity
Dimensions ( mm )	70.3×70.2×155.7 ( W×D×H )	Ø108×91	Ø65×147	Ø87×108



## 1080P 4 in 1 Hybrid Camera-E Series

Series	1080P TVI&AHD Hybrid Camera	1080P TVI&AHD Hybrid Camera	1080P TVI&AHD Hybrid Camera	1080P TVI&AHD Hybrid Camera
Model	TD-7524TE2 ( D/IR1 ) TD-7524AE2 ( D/IR1 )	TD-7525TE2 ( D/FZ/AR2 ) TD-7525AE2 ( D/FZ/AR2 )	TD-7521TE2 ( D/IR1 ) TD-7521AE2 ( D/IR1 )	TD-7523TE2 ( D/FZ/IR2 ) TD-7523AE2 ( D/FZ/IR2 )
Photo				
Resolution	1080P(1920 x 1080)	1080P(1920 x 1080)	1080P(1920 x 1080)	1080P(2048 x 1080)
Video Output	AHD/TVI/CVI/CVBS	AHD/TVI/CVI/CVBS	AHD/TVI/CVI/CVBS	AHD/TVI/CVI/CVBS
Image Sensor	1 / 2.9" CMOS (Sony)	1 / 2.9" CMOS (Sony)	1 / 2.9" CMOS (Sony)	1 / 2.9" CMOS (Sony)
Min.Illumination	0 Lux ( IR ON )	0 Lux ( IR ON )	0 Lux ( IR ON )	0 Lux ( IR ON )
Lens	3.6 mm @M12( 2.8 mm optional )	2.8~12mm@D14	3.6mm@M12(2.8mm optional)	2.8~12mm@D14
Lens Adjustment	Fixed Lens	Manual Varifocal	Fixed Lens	Manual Varifocal
Day/Night	√	√	√	√
Wide Dynamic Range	Digital WDR	Digital WDR	Digital WDR	Digital WDR
Defog	√	√	√	√
BLC&HLC	√	√	√	√
Digital NR	√	√	√	√
Defect Correction	√	√	√	√
AGC	√	√	√	√
S/N Ratio	>52 dB(AGC off)	>52 dB(AGC off)	>52 dB(AGC off)	>52 dB(AGC off)
Electronic Shutter	1 / 50s ~ 1 / 100000s ( PAL ); 1 / 60s ~ 1 / 100000s ( NTSC )	1 / 50s ~ 1 / 100000s ( PAL ); 1 / 60s ~ 1 / 100000s ( NTSC )	1 / 50s ~ 1 / 100000s ( PAL ); 1 / 60s ~ 1 / 100000s ( NTSC )	1 / 50s ~ 1 / 100000s ( PAL ); 1 / 60s ~ 1 / 100000s ( NTSC )
White Balance	ATW, AWC-SET, Manual	ATW, AWC-SET, Manual	ATW, AWC-SET, Manual	ATW, AWC-SET, Manual
Function Control	OSD	OSD	OSD	OSD
IR distance	10 ~ 20m	20 ~ 30m	10 ~ 20m	20 ~ 30m
Water-proof Standrad	IP66	IP66	IP66	IP66
Power Supply	DC 12V	DC 12V	DC 12V	DC 12V
Power Consumption	<1W	<1W	<1W	<1W
IR Consumption ON	<3.7W	<3W	<2.8W	<2.8W
Operating Environment	- 20 °C ~ 50 °C, 10 % ~ 90 % humidity	- 20 °C ~ 50 °C, 10 % ~ 90 % humidity	- 20 °C ~ 50 °C, 10 % ~ 90 % humidity	- 20 °C ~ 50 °C, 10 % ~ 90 % humidity
Dimensions ( mm )	Ø108×91	Ø130×115	Ø116×91	Ø150×110





## 1080P 4 in 1 Hybrid Camera-E Series

Series	1080P TVI&AHD Hybrid Camera	1080P TVI&AHD Hybrid Camera	1080P TVI&AHD Hybrid Camera
Model	TD-7422TE2 ( D/IR2 ) TD-7422AE2 ( D/IR2 )	TD-7423TE2 ( D/FZ/IR3 ) TD-7423AE2 ( D/FZ/IR3 )	TD-7421TE2(D/IR1) TD-7421AE2(D/IR1)
Photo			
Resolution	1080P(1920 x 1080)	1080P(1920 x 1080)	1080P(1920 x 1080)
Video Output	AHD/TVI/CVI/CVBS	AHD/TVI/CVI/CVBS	AHD/TVI/CVI/CVBS
Image Sensor	1 / 2.9" CMOS (Sony)	1 / 2.9" CMOS (Sony)	1 / 2.9" CMOS (Sony)
Min.Illumination	0 Lux ( IR ON )	0 Lux ( IR ON )	0 Lux ( IR ON )
Lens	3.6 mm @M12( 2.8 mm optional )	2.8~12mm@D14	3.6 mm @M12( 2.8 mm optional )
Lens Adjustment	Fixed Lens	Manual Varifocal	Fixed Lens
Day/Night	√	√	√
Wide Dynamic Range	Digital WDR	Digital WDR	Digital WDR
Defog	√	√	√
BLC&HLC	√	√	√
Digital NR	√	√	√
Defect Correction	√	√	√
AGC	√	√	√
S/N Ratio	>52 dB(AGC off)	>52 dB(AGC off)	>52 dB(AGC off)
Electronic Shutter	1 / 50s ~ 1 / 100000s ( PAL ); 1 / 60s ~ 1 / 100000s ( NTSC )	1 / 50s ~ 1 / 100000s ( PAL ); 1 / 60s ~ 1 / 100000s ( NTSC )	1 / 50s ~ 1 / 100000s ( PAL ); 1 / 60s ~ 1 / 100000s ( NTSC )
White Balance	ATW, AWC-SET, Manual	ATW, AWC-SET, Manual	ATW, AWC-SET, Manual
Function Control	OSD	OSD	OSD
IR distance	10 ~ 20m	30 ~ 50m	10 ~ 20m
Water-proof Standrad	IP66	IP66	IP66
Power Supply	DC 12V	DC 12V	DC 12V
Power Consumption	<1W	<1W	<1W
IR Consumption ON	<4W	<4.9W	<3.7W
Operating Environment	- 20 °C ~ 50 °C, 10 % ~ 90 % humidity	- 20 °C ~ 50 °C, 10 % ~ 90 % humidity	- 20 °C ~ 50 °C, 10 % ~ 90 % humidity
Dimensions ( mm )	Φ 86.7 x 219.4	Ø108×270	70.3×70.2×155.7 ( W×D×H )







## 1080P 4 in 1 Hybrid Camera-M Series

Series	1080P AHD&TVI Hybrid Camera	1080P AHD&TVI Hybrid Camera	1080P AHD&TVI Hybrid Camera	1080P AHD&TVI Hybrid Camera
Model	TD-7322TM ( P-D )	TD-7421AM2(D/IR1) TD-7421TM2(D/IR1)	TD-7422AM2 ( D/IR2 ) TD-7422TM2 ( D/IR2 )	TD-7423AM2 ( D/AZ/IR3 ) TD-7423TM2 ( D/AZ/IR3 )
Photo				
Resolution	1080P(1920 x 1080)	1080P(1920 x 1080)	1080P(1920 x 1080)	1080P(1920 x 1080)
Video Output	TVI and AHD( CVBS output available )	AHD/TVI/CVI/CVBS	AHD/TVI/CVI/CVBS	AHD/TVI/CVI/CVBS
Image Sensor	1 / 3 "CMOS (Sony)	1 / 2.8 "CMOS	1 / 2.8 "CMOS	1 / 2.8 "CMOS
Min.Illumination	0.1 Lux ( IR ON )	Color : 0.001lux @F1.2, AGC ON B/W : 0 Lux with IR	Color : 0.001lux @F1.2, AGC ON B/W : 0 Lux with IR	Color : 0.001lux @F1.2, AGC ON B/W : 0 Lux with IR
Lens	-	3.6 mm @M12( 2.8 mm optional )	3.6 mm @M12( 2.8 mm/6mm optional )	2.8-10mm@D14
Lens Adjustment	-	Fixed Lens	Fixed Lens	Motorized Varifocal
Day/Night	√	√	√	√
Wide Dynamic Range	Digital WDR	Physical WDR	Physical WDR	Physical WDR
Defog	√	√	√	√
BLC&HLC	√	√	√	√
Digital NR	√	√	√	√
Defect Correction	√	√	√	√
AGC	√	√	√	√
S/N Ratio	>52 dB(AGC off)	≥52 dB(AGC off)	≥52 dB(AGC off)	≥52 dB(AGC off)
Electronic Shutter	1 / 50s ~ 1 / 50000s ( PAL ); 1 / 60s ~ 1 / 50000s ( NTSC )	1 / 50s ~ 1 / 100000s ( PAL ); 1 / 60s ~ 1 / 100000s ( NTSC )	1 / 50s ~ 1 / 100000s ( PAL ); 1 / 60s ~ 1 / 100000s ( NTSC )	1 / 50s ~ 1 / 100000s ( PAL ); 1 / 60s ~ 1 / 100000s ( NTSC )
White Balance	ATW, AWC--SET, Manual	ATW, AWC--SET, Manual	ATW, AWC--SET, Manual	ATW, AWC--SET, Manual
Function Control	OSD	OSD	OSD	OSD
IR distance	30 ~ 50m	10 ~ 20m	20 ~ 30m	30 ~ 50m
Water-proof Standrad	IP66	IP66	IP66	IP66
Power Supply	DC 12V(AC 24V Optional)	DC 12V ( ±10% )	DC 12V ( ±10% )	DC 12V ( ±10% )
Power Consumption	<2.5W	<1W	<1W	<1W
IR Consumption ON	-	<4W	<4W	<5W
Operating Environment	- 20 °C ~ 50 °C, 10 % ~ 90 % humidity	- 20 °C ~ 50 °C, 10 % ~ 90 % humidity	- 20 °C ~ 50 °C, 10 % ~ 90 % humidity	- 20 °C ~ 50 °C, 10 % ~ 90 % humidity
Dimensions ( mm )	68.4×70×148.7 ( W×D×H )	Ø70×156	Ø87 x 219	Ø109×284

## 1080P 4 in 1 Hybrid Camera-M Series

Series	1080P AHD&TVI Hybrid Camera	1080P AHD&TVI Hybrid Camera	1080P AHD&TVI Hybrid Camera	1080P AHD&TVI Hybrid Camera
Model	TD-7521AM2 ( D/IR1 ) TD-7521TM2 ( D/IR1 )	TD-7523AM2 ( D/AZ/IR2 ) TD-7523TM2 ( D/AZ/IR2 )	TD-7524AM2 ( D/IR1 ) TD-7524TM2 ( D/IR1 )	TD-7525AM2 ( D/AZ/AR2 ) TD-7525TM2 ( D/AZ/AR2 )
Photo				
Resolution	1080P(1920 x 1080)	1080P(1920 x 1080)	1080P(1920 x 1080)	1080P(1920 x 1080)
Video Output	AHD/TVI/CVI/CVBS	AHD/TVI/CVI/CVBS	AHD/TVI/CVI/CVBS	AHD/TVI/CVI/CVBS
Image Sensor	1 / 2.8 "CMOS	1 / 2.8 "CMOS	1 / 2.8 "CMOS	1 / 2.8 "CMOS
Min.Illumination	Color : 0.001lux @F1.2, AGC ON B/W : 0 Lux with IR	Color : 0.001lux @F1.2, AGC ON B/W : 0 Lux with IR	Color : 0.001lux @F1.2, AGC ON B/W : 0 Lux with IR	Color : 0.001lux @F1.2, AGC ON B/W : 0 Lux with IR
Lens	3.6 mm @M12( 2.8 mm optional )	2.8-12mm@D14	3.6 mm @M12( 2.8mm optional )	2.8-12mm@D14
Lens Adjustment	Fixed Lens	Motorized Varifocal	Fixed Lens	Motorized Varifocal
Day/Night	√	√	√	√
Wide Dynamic Range	Physical WDR	Physical WDR	Physical WDR	Physical WDR
Defog	√	√	√	√
BLC&HLC	√	√	√	√
Digital NR	√	√	√	√
Defect Correction	√	√	√	√
AGC	√	√	√	√
S/N Ratio	≥52 dB(AGC off)	≥52 dB(AGC off)	≥52 dB(AGC off)	≥52 dB(AGC off)
Electronic Shutter	1 / 50s ~ 1 / 100000s ( PAL ); 1 / 60s ~ 1 / 100000s ( NTSC )	1 / 50s ~ 1 / 100000s ( PAL ); 1 / 60s ~ 1 / 100000s ( NTSC )	1 / 50s ~ 1 / 100000s ( PAL ); 1 / 60s ~ 1 / 100000s ( NTSC )	1 / 50s ~ 1 / 100000s ( PAL ); 1 / 60s ~ 1 / 100000s ( NTSC )
White Balance	ATW, AWC--SET, Manual	ATW, AWC--SET, Manual	ATW, AWC--SET, Manual	ATW, AWC--SET, Manual
Function Control	OSD	OSD	OSD	OSD
IR distance	10 ~ 20m	20 ~ 30m	10 ~ 20m	20 ~ 30m
Water-proof Standrad	IP66	IP66	IP66	IP66
Power Supply	DC 12V ( ±10% )	DC 12V ( ±10% )	DC 12V ( ±10% )	DC 12V ( ±10% )
Power Consumption	<1W	<1W	<1W	<1W
IR Consumption ON	<3W	<3.5W	<4W	<3W
Operating Environment	- 20 °C ~ 50 °C, 10 % ~ 90 % humidity	- 20 °C ~ 50 °C, 10 % ~ 90 % humidity	- 20 °C ~ 50 °C, 10 % ~ 90 % humidity	- 20 °C ~ 50 °C, 10 % ~ 90 % humidity
Dimensions ( mm )	Ø116×91	Ø150×114	Ø108×87	Ø130×109

## 4MP TVI&amp;AHD Hybrid Camera

Series	4MP TVI&AHD Hybrid Camera	4MP TVI&AHD Hybrid Camera	4MP TVI&AHD Hybrid Camera	4MP TVI&AHD Hybrid Camera	4MP TVI&AHD Hybrid Camera	4MP TVI&AHD Hybrid Camera
Model	TD-7441AE(D/IR1)	TD-7442AE ( D/IR2 )	TD-7443AE ( D/FZ/IR3 )	TD-7541AE ( D/IR1 )	TD-7543AE ( D/FZ/IR2)	TD-7544AE ( D/IR1 )
Photo						
Resolution	4MP(2560x 1440)	4MP(2560x 1440)	4MP(2560x 1440)	4MP(2560x 1440)	4MP(2560x 1440)	4MP(2560x 1440)
Video Output	AHD/TVI	AHD/TVI	AHD/TVI	AHD/TVI	AHD/TVI	AHD/TVI
Image Sensor	1 / 3 "CMOS	1 / 3 "CMOS	1 / 3 "CMOS	1 / 3 "CMOS	1 / 3 "CMOS	1 / 3 "CMOS
Min.Illumination	0 Lux ( IR ON )	0 Lux ( IR ON )	0 Lux ( IR ON )	0 Lux ( IR ON )	0 Lux ( IR ON )	0 Lux ( IR ON )
Lens	3.6 mm @M12( 2.8 mm optional )	3.6 mm @M12( 2.8 mm/6mm optional )	3.3~12mm@D14	3.6 mm @M12( 2.8 mm optional )	3.3~12mm@D14	3.6 mm @M12( 2.8 mm optional )
Lens Adjustment	Fixed Lens	Fixed Lens	Manual Varifocal	Fixed Lens	Manual Varifocal	Fixed Lens
Day/Night	√	√	√	√	√	√
Wide Dynamic Range	Digital WDR	Digital WDR	Digital WDR	Digital WDR	Digital WDR	Digital WDR
Defog	√	√	√	√	√	√
BLC&HLC	√	√	√	√	√	√
Digital NR	√	√	√	√	√	√
Defect Correction	√	√	√	√	√	√
AGC	√	√	√	√	√	√
S/N Ratio	≥52 dB(AGC off)	≥52 dB(AGC off)	≥52 dB(AGC off)	≥52 dB(AGC off)	≥52 dB(AGC off)	≥52 dB(AGC off)
Electronic Shutter	1 / 25s ~ 1 / 50000s ( PAL ); 1 / 30s ~ 1 / 50000s ( NTSC )	1 / 25s ~ 1 / 50000s ( PAL ); 1 / 30s ~ 1 / 50000s ( NTSC )	1 / 25s ~ 1 / 50000s ( PAL ); 1 / 30s ~ 1 / 50000s ( NTSC )	1 / 25s ~ 1 / 50000s ( PAL ); 1 / 30s ~ 1 / 50000s ( NTSC )	1 / 25s ~ 1 / 50000s ( PAL ); 1 / 30s ~ 1 / 50000s ( NTSC )	1 / 25s ~ 1 / 50000s ( PAL ); 1 / 30s ~ 1 / 50000s ( NTSC )
White Balance	ATW, AWC--SET, Manual	ATW, AWC--SET, Manual	ATW, AWC--SET, Manual	ATW, AWC--SET, Manual	ATW, AWC--SET, Manual	ATW, AWC--SET, Manual
Function Control	OSD	OSD	OSD	OSD	OSD	OSD
IR distance	10 ~ 20m	20 ~ 30m	30 ~ 50m	10 ~ 20m	20 ~ 30m	10 ~ 20m
Water-proof Standrad	IP66	IP66	IP66	IP66	IP66	IP66
Power Supply	DC 12V ( ±10% )	DC 12V ( ±10% )	DC 12V ( ±10% )	DC 12V ( ±10% )	DC 12V ( ±10% )	DC 12V ( ±10% )
Power Consumption	<1W	<1W	<1W	<1W	<1W	<1W
IR Consumption ON	<4W	<4W	<5W	<3W	<3.5W	<3W
Operating Environment	- 20 °C ~ 50 °C, 10 % ~ 90 % humidity	- 20 °C ~ 50 °C, 10 % ~ 90 % humidity	- 20 °C ~ 50 °C, 10 % ~ 90 % humidity	- 20 °C ~ 50 °C, 10 % ~ 90 % humidity	- 20 °C ~ 50 °C, 10 % ~ 90 % humidity	- 20 °C ~ 50 °C, 10 % ~ 90 % humidity
Dimensions ( mm )	Φ 70 x 156	Φ 87 x 219	Ø109×284	Ø116×91	Ø150×114	Ø108×87

## 5MP TVI&amp;AHD Hybrid Camera

Series	5MP TVI&AHD Hybrid Camera	5MP TVI&AHD Hybrid Camera	5MP TVI&AHD Hybrid Camera
Model	TD-7451AE(D/IR1)	TD-7452AE ( D/IR2 )	TD-7453AE ( D/FZ/IR3 )
Photo			
Resolution	5MP(2592x 1944)	5MP(2592x 1944)	5MP(2592x 1944)
Video Output	AHD/TVI	AHD/TVI	AHD/TVI
Image Sensor	1 / 2.5 "CMOS	1 / 2.5 "CMOS	1 / 2.5 "CMOS
Min.Illumination	Color : 0.001lux @F1.2, AGC ON B/W : 0 Lux with IR	Color : 0.001lux @F1.2, AGC ON B/W : 0 Lux with IR	Color : 0.001lux @F1.2, AGC ON B/W : 0 Lux with IR
Lens	3.6 mm @M12( 2.8 mm optional )	3.6 mm @M12( 2.8 mm optional )	3.3~12mm@D14
Lens Adjustment	Fixed Lens	Fixed Lens	Manual Varifocal
Day/Night	√	√	√
Wide Dynamic Range	Digital WDR	Digital WDR	Digital WDR
Defog	√	√	√
BLC&HLC	√	√	√
Digital NR	√	√	√
Defect Correction	√	√	√
AGC	√	√	√
S/N Ratio	≥52 dB(AGC off)	≥52 dB(AGC off)	≥52 dB(AGC off)
Electronic Shutter	1 / 25s ~ 1 / 100000s ( PAL ); 1 / 30s ~ 1 / 100000s ( NTSC )	1 / 25s ~ 1 / 100000s ( PAL ); 1 / 30s ~ 1 / 100000s ( NTSC )	1 / 25s ~ 1 / 100000s ( PAL ); 1 / 30s ~ 1 / 100000s ( NTSC )
White Balance	ATW, AWC--SET, Manual	ATW, AWC--SET, Manual	ATW, AWC--SET, Manual
Function Control	OSD	OSD	OSD
IR distance	10 ~ 20m	20 ~ 30m	30 ~ 50m
Water-proof Standrad	IP66	IP66	IP66
Power Supply	DC 12V ( ±10% )	DC 12V ( ±10% )	DC 12V ( ±10% )
Power Consumption	<1W	<1W	<1W
IR Consumption ON	<4W	<4W	<5W
Operating Environment	- 20 °C ~ 50 °C, 10 % ~ 90 % humidity	- 20 °C ~ 50 °C, 10 % ~ 90 % humidity	- 20 °C ~ 50 °C, 10 % ~ 90 % humidity
Dimensions ( mm )	Φ 70 x 156	Φ 87 x 219	Ø109×284

## 5MP TVI&amp;AHD Hybrid Camera



Series	5MP TVI&AHD Hybrid Camera	5MP TVI&AHD Hybrid Camera	5MP TVI&AHD Hybrid Camera	5MP TVI&AHD Hybrid Camera
Model	TD-7551AE ( D/IR1 )	TD-7553AE ( D/FZ/IR2)	TD-7554AE ( D/IR1 )	TD-7555AE ( D/FZ/AR2)
Photo				
Resolution	5MP(2592x 1944)	5MP(2592x 1944)	5MP(2592x 1944)	5MP(2592x 1944)
Video Output	AHD/TVI	AHD/TVI	AHD/TVI	AHD/TVI
Image Sensor	1 / 2.5 "CMOS	1 / 2.5 "CMOS	1 / 2.5 "CMOS	1 / 2.5 "CMOS
Min.Illumination	Color : 0.001lux @F1.2, AGC ON B/W : 0 Lux with IR	Color : 0.001lux @F1.2, AGC ON B/W : 0 Lux with IR	Color : 0.001lux @F1.2, AGC ON B/W : 0 Lux with IR	Color : 0.001lux @F1.2, AGC ON B/W : 0 Lux with IR
Lens	3.6 mm @M12( 2.8 mm optional )	3.3~12mm@D14	3.6 mm @M12( 2.8 mm optional )	3.3~12mm@D14
Lens Adjustment	Fixed Lens	Manual Varifocal	Fixed Lens	Manual Varifocal
Day/Night	√	√	√	√
Wide Dynamic Range	Digital WDR	Digital WDR	Digital WDR	Digital WDR
Defog	√	√	√	√
BLC&HLC	√	√	√	√
Digital NR	√	√	√	√
Defect Correction	√	√	√	√
AGC	√	√	√	√
S/N Ratio	≥52 dB(AGC off)	≥52 dB(AGC off)	≥52 dB(AGC off)	≥52 dB(AGC off)
Electronic Shutter	1 / 25s ~ 1 / 100000s ( PAL ); 1 / 30s ~ 1 / 100000s ( NTSC )	1 / 25s ~ 1 / 100000s ( PAL ); 1 / 30s ~ 1 / 100000s ( NTSC )	1 / 25s ~ 1 / 100000s ( PAL ); 1 / 30s ~ 1 / 100000s ( NTSC )	1 / 25s ~ 1 / 100000s ( PAL ); 1 / 30s ~ 1 / 100000s ( NTSC )
White Balance	ATW, AWC--SET, Manual	ATW, AWC--SET, Manual	ATW, AWC--SET, Manual	ATW, AWC--SET, Manual
Function Control	OSD	OSD	OSD	OSD
IR distance	10 ~ 20m	20 ~ 30m	10 ~ 20m	20 ~ 30m
Water-proof Standrad	IP66	IP66	IP66	IP66
Power Supply	DC 12V ( ±10% )	DC 12V ( ±10% )	DC 12V ( ±10% )	DC 12V ( ±10% )
Power Consumption	<1W	<1W	<1W	<1W
IR Consumption ON	<3W	<3.5W	<3W	<3W
Operating Environment	-20 °C ~ 50 °C, 10 % ~ 90 % humidity	-20 °C ~ 50 °C, 10 % ~ 90 % humidity	-20 °C ~ 50 °C, 10 % ~ 90 % humidity	-20 °C ~ 50 °C, 10 % ~ 90 % humidity
Dimensions ( mm )	Ø116×91	Ø150×114	Ø108×87	Ø109×130

## NVMS Device





## NVMS Device

Network Controller keyboard		
Model	TD-K11	TD-K22
Photo		
Local display	LCD	7"LCD(Color)
Joystick	4 Dimension Joystick	4 Dimension Joystick
Buttons	4 Dimension Joystick	4 Dimension Joystick
Network Interface	RJ45 10 / 100 / 1000 Mbps x1	RJ45 10 / 100 / 1000 Mbps x1
Control mode	NVMS5000 mode/ PTZ mode	NVMS5000 mode/ PTZ mode
Web Browser Management	change buttons config and FW upgrade by Web browser	change buttons config and FW upgrade by Web browser
Serial ports	RS485 x1 RS232 x1	/
HDMI	/	HDMI x 1: 1920 x 1080 / 1280x1024
Baud rate	1200bps, 2400bps, 4800bps, 9600bps, 19200bps	1200bps, 2400bps, 4800bps, 9600bps, 19200bps
Power supply	DC12V	DC12V
Consumption	≤8W	≤24W
Working temperature	-10°C~ +60°C	0°C~ +55°C
Working Humidity	10%~90%	10%~90%
Dimension	420 ( L ) ×260(W)×170(H)mm	490 ( L ) ×265(W)×170(H)mm
Weight	2.8kg	3kg

Storage server		
Model	TD-S316E	TD-S324E
Photo		
CPU	Intel high-performance multi-core 64 bit processor	Intel high-performance multi-core 64 bit processor
OS	Embedded Linux OS	Embedded Linux OS
Power Supply	1+1 redundant power supplies, support hot swapping	1+1 redundant power supplies, support hot swapping
Fan	Three groups of 12038 strong wind & low speed fans, online swappable	Three groups of 12038 strong wind & low speed fans, online swappable
Cache	Standard 4 GB, extendable	Standard 4 GB, extendable
Network Interface	Two Gigabit ethernet network interface, support network interface bind, load sharing standard	Two Gigabit ethernet network interface, support network interface bind, load sharing standard
HDD Number	3.0 interface SATA HDD x 16, max 6TB per HDD	3.0 interface SATA HDD x 24, max 6TB per HDD
Transfer Rate	6 Gbps	6 Gbps
HDD Installation	Independent HDD bracket, support HDD hot swapping	Independent HDD bracket, support HDD hot swapping
RAID	RAID 0 / 1 / 5 / 6, support hot spare, and online expansion	RAID 0 / 1 / 5 / 6, support hot spare, and online expansion
RAID Mode	hardware RAID	hardware RAID
HDD Expansion	Support drag box expansion: max 2 drag boxes, 16 bay/unit	Support drag box expansion: max 2 drag boxes, 32bay/unit
Drag Box Interface	Mini SAS x 2	Mini SAS x 2
Media Protocol	IPC video/audio streaming over TCP / UDP / RTSP	IPC video/audio streaming over TCP / UDP / RTSP
Search	Support time / event / tag / time slice search	Support time / event / tag / time slice search
Channels/Resolution	128ch 1080p/256ch 720p/512ch D1	128ch 1080p/256ch 720p/512ch D1
Storage bandwidth	up to 768Mbps	up to 768Mbps
Media Transfer Bandwidth	up to 768Mbps	up to 768Mbps
Media Upload Bandwidth	up to 128Mbps	up to 128Mbps
Management Type	Web browser management, seamless integration with NVMS5000 platform	Web browser management, seamless integration with NVMS5000 platform
Management Function	RAID, recording, system log, alarm processing	RAID, recording, system log, alarm processing
Communication Protocol	Support device discovery protocol, API way to communicate with monitoring platform, stream media search and send protocol	Support device discovery protocol, API way to communicate with monitoring platform, stream media search and send protocol
Platform Management	Support API to integrate with 3rd party platform	Support API to integrate with 3rd party platform
Power Supply	AC 100 ~ 240V, 47 ~ 63HZ	AC 100 ~ 240V, 47 ~ 63HZ
Power Consumption	≤ 400W ( with HDD )	≤ 400W ( with HDD )

## NVMS Device

Decoder			
Model	TD-1001D	TD-1005D	TD-1102D
Photo			
CPU	Dual Core ARM Cortex A9	Dual Core ARM Cortex A9	Dual Core ARM Cortex A9
Compression	H.264	H.264	H.265/H.264
OS	Embedded Linux OS	Embedded Linux OS	Embedded Linux OS
Interface	HDMI×2 VGA×2 CVBS×2	HDMI×5 VGA×5	HDMI×2
Decoding Resolution	HDMI×2, resolution 1920×1080, VGA×2, resolution 1920×1080/1280×1024/1024×768, CVBS×2, resolution 704×576 ( PAL ) 704×480(NTSC)	HDMI×5, resolution 1920×1080 VGA×5, resolution 1920×1080/1280×1024/1024×768	HDMI1 resolution 3840×2160/1920×1080/1280×1024 ; HDMI2 resolution 1920×1080/1280×1024
Decoding Capacity	1080p×6/720p×12/D1×24	3MP×12/1080p×18/720p×36/D1×72, 3MP×4/1080p×6/720p×12/D1×24 (only for CH5)	8MP×4/5MP×4/4MP×8/3MP×8/1080P×8/720P×32/D1×32
Frames Rate	1-25FPS/CH (PAL), 1-30FPS/CH (NTSC)	1-25FPS/CH (PAL), 1-30FPS/CH (NTSC)	1-25FPS/CH (PAL), 1-30FPS/CH (NTSC)
Split Screen	1/4/9	1/4/9/16	1/4/9/16
Network Interface	Gigabit ethernet x1	Gigabit ethernet x1	Two Gigabit ethernet network interface, support network interface bind, load sharing standard
Audio	No	No	Audio input ×1, Audio output ×1, support 2-way talk
Alarm	No	No	Alarm input×8, Alarm output×4
USB	USB2.0×2	USB2.0×2	USB3.0×1, USB2.0×2
Power Supply	DC12V	DC12V	DC12V
Working Temperature	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C

TD-N064E/TD-N128E		
Model	TD-N064E	TD-N128E
Photo		
Compression	H.265, H.264	H.265, H.264
OS	Embedded Linux OS	Embedded Linux OS
Video Input	64 ch	128 ch
Recording Bandwidth	320Mbps	512Mbps
Recording Resolution	8MP / 5MP / 4MP / 3MP / 1080P / 960P / 720P@25/30fps	8MP / 5MP / 4MP / 3MP / 1080P / 960P / 720P@25/30fps
Video Output	HDMI × 2 : 4K × 2K / 1920 × 1080 / 1280×1024 , 1920 × 1080 / 1280×1024 VGA × 1 : 1920 × 1080 / 1280×1024	HDMI × 2 : 4K × 2K / 1920 × 1080 / 1280×1024 , 1920 × 1080 / 1280×1024 VGA × 1 : 1920 × 1080 / 1280×1024
Audio Input	64ch IPC input	128ch IPC input
2-way Audio	RCA × 1	RCA × 1
Recording Mode	Manual, Timer, Motion, Sensor	Manual, Timer, Motion, Sensor
Local playback	Sync 16ch	Sync 16ch
Alarm Input	8ch local input 64ch IPC alarm input	8ch local input 128ch IPC alarm input
Alarm Output	4ch	4ch
Network Interface	RJ45 10 / 100 / 1000 Mbps x2	RJ45 10 / 100 / 1000 Mbps x2
Network Protocol	TCP / IP, PPPoE, DHCP, DNS, DDNS, UPnP, NTP, SMTP	TCP / IP, PPPoE, DHCP, DNS, DDNS, UPnP, NTP, SMTP
HDD number	SATA x16 ( support hot swap ) , E-SATA x2 ( support external storage)	SATA x16 ( support hot swap ) , E-SATA x2 ( support external storage)
RAID	RAID 0 , RAID 1 , RAID 10 , RAID 5	RAID 0 , RAID 1 , RAID 10 , RAID 5
Local backup	Flash drive/ remote HDD supported	Flash drive/ remote HDD supported
Remote Backup	Supported	Supported
USB	USB3.0 x1, USB2.0 x2	USB3.0 x1, USB2.0 x2
Power Supply	ATX	ATX
Power Consumption	≤ 15W ( without HDD )	≤ 15W ( without HDD )
Dimensions ( mm )	437 x 483 x 143 ( W x D x H )	437 x 483 x 143 ( W x D x H )
Working Temperature/Humidity	-10~50°C , 10%~90%	-10~50°C , 10%~90%

Software  
 NVMS-1000  
 Mobile APP  
 NVMS-5000

NVMS-1000

NVMS-1000 is a monitoring client installed on computer and specially designed for network video surveillance. After the network video monitoring system is well built, the super administrator can add&control devices like DVRs, NVRs and IP Cameras to achieve system management.



Mobile APP

SuperLive Plus is TVT's new generation Android&iOS Mobile APP designed for H265&H.264 DVRs/NVRs/IPC.  
 Fully compatible with H265&H.264  
 More intuitive, Finger Operation, Easy-to-Use  
 Push notification, Fast Response, OSD Menu on top  
 Multi-language self-adaptive  
 Efficient playback&Search, freely Zoom in/out via time bar  
 Quick Share to Social Media



NVMS-5000

NVMS-5000 network surveillance management system is based on standard internet protocols, and built up over broadband internet and mobile internet. This NVMS platform software can combine the sporadic, isolated monitoring points together, and connect the devices seamlessly to realize the cross area monitoring and unified management. It is able to manage 30,000 monitoring points, supporting DVR, DVS, NVR and IP camera as well as HD&SD applications to satisfy various requirements.



- **Centralized Security Management:** Centralized and unified management to all devices, independent encryption and authentication to important information.
- **Simply&Stable:** With high centralized Modules , embedded Media Server to Storage server, easy for installation and configuration setting.
- **Provide Multi-stream:** Not only optimized different network such as private network, broadband, 3G, but also provide corresponding stream.
- **Alarm Linkage:** Can be compatible with IR detect ,E-Fence, IR Radiation, trigger recording, Buzzer and linkage activity from TV wall .
- **Support Multiple Operators:** Set up different access paths for different operators to effectively deal with video loss, disconnection, play delay etc.
- **Distributed Structure:** Distributed structure with convenience to establish multi-level monitoring networks and upgrade the system for capacity expansion.
- **Auto Report:** devices connect the server by auto report to effectively solve the problem of obtaining the dynamic IP address of device.