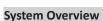
# **WEC7V1120E**

# 12MP Box Network Camera





- · 1/1.7" 12Megapixel progressive scan STARVIS™ CMOS
- · H.265&H.264 triple-stream encoding
- · 20fps@12M(4000×3000),25/30fps@4K(3840×2160)
- · DWDR, Day/Night(ICR), 3DNR,AWB,AGC,BLC
- $\cdot$  Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- Auto back focus(ABF)
- · Micro SD memory, PoE



Ultra series product adopts high performance DSP and Sony advanced image sensor technology, which can provide excellent image effects for users such as UHD resolution, starlight and super WDR etc. The series utilizes Dahua advanced software algorithm, which is able to support people counting and heat map, bringing extra business analysis value for customers; IP67, IK10 and heater compliance enables the product to be applied in a more harsh environment.

# **Functions**

#### 4K technology

 $4 \mbox{K}$  technology as a revolutionary breakthrough in image, which enhance the expressive image of essence, allowing users to experience the best picture quality brought about by the visual feast . For the purposes of  $4 \mbox{K}$  surveillance with four times the  $1080 \mbox{P}$  resolution, presented to the user with more details . Under the same scenario by raising the pixels , reduce the camera cost.

#### E-PTZ function

E- PTZ ( electronic-PTZ ( pan / tilt / zoom function ) . Is a virtual technology . Through E- PTZ function can be achieved on the local area pan, zoom and other functions . Mostly It appeared in Megapixel or more cameras.

### Intelligent Video System (IVS)

Dahua camera has a built-in video analysis based on intelligent algorithms and can achieve the following:Tripwire,Intrusion,Abandoned/ Missing can timely, quickly and accurately respond to monitoring events in specific area. It enhances monitoring efficiency. At the same time, the camera can support face detection,it can quickly capture a face and upload the image to the server. In addition the camera also supports intelligent tamper detection,through dramatic changes in the scene it will send out warning information to ensure effective monitoring.

### Business intelligent analysis (People counting, Heatmap)

Dahua Camera also supports more advanced intelligent features such as









people counting and heat map besides basic IVS functions. These two functions can be applied to business intelligence and bring extra values to customers. It is available to acquire daily, weekly, monthly and yearly people flow via people counting and output data report. Heat map can be based on a moving object in time of space movement for analysis, find the most active area and output the report, which is to provide valuable data support for commercial applications.

#### Smart Scene Adaptive (SSA)

Smart Scene Adaptive (SSA) is a Dahua self-developed intelligent image technology, the camera automatically evaluates the change in scene, in particular strong lights. In a strong backlight environment, it will automatically regulate exposure parameters to get better image quality. This can effectively address the impact of traffic lights, providing excellent video quality.

#### HEVC (H.265)

H.265 ITU-T VCEG is a new video coding standard. H.265 Following standard developed around the existing video coding standard H.264 , some retain the original technology , while some of the relevant technology to improve the new technology uses advanced technology to improve the relationship between the code stream , encoding quality , and the delay between algorithm complexity , optimize settings specific contents include : Improve compression efficiency , improve the robustness and error recovery capabilities, real-time to reduce the delay, reduce channel acquisition time and a random access delay , reduce complexity , etc



Section   Sect	Tankain Louis Co.			
Effective Poels         Accopy (window)         Noise Reduction         SD D06           RAM/ROM         1024464/129844         Motion Detection         07/ On (7 Zone, Sectingle)           Scanning System         Progressive         Region of Interest         07/ On (7 Zone, Sectingle)           Electronic Shutter Speed         Anni Manual, 1/4×1/100000h         Electronic Image Stabilization         xupport           Michamum Illumination         0001447-1/4×1/4×100000h         Electronic Image Stabilization         xupport           5/N Ratio         More than Zodill         0001447-1/4×100000h         Belog         Spacet           18 Detance         N/A         Minor         04/ Zon         Belog           18 Detance         N/A         Minor         04/ Zon         Belog           18 Detance         N/A         Minor         04/ Zon         Belog           18 Detance         N/A         Minor         04/ Zon         Belog Zon           18 Detance         N/A         Audio         27/ Zon         Compression         x27/ 24/ Zon April 24/ Zon April 24/ Zon           18 Detance         N/A         Audio         27/ Zon         XVII/ Zon April 24/ Zon <td></td> <td></td> <td></td> <td></td>				
RAM/ROM   DISAMB   James   Rectangle   Region of interest   City Con   A zone	-		Gain Control	Auto/Manual
	Effective Pixels		Noise Reduction	3D DNR
Electronic shutter Speed	RAM/ROM	1024MB/128MB	Motion Detetion	Off / On (4 Zone, Rectangle)
Minimum Illumination	Scanning System	Progressive	Region of Interest	Off / On (4 Zone)
	Electronic Shutter Speed	Auto/Manual, 1/3~1/100000s	<u> </u>	Support
S/N Ratio         More than SQUB         Digital Zoom         16c           IR Distance         N/A         Flip         07950718072707           IR ON/Off Control         N/A         Mirror         Off / On           IR LFDs         N/A         Privacy Masking         off / On (6 Area, Rectangle)           Lens         Audio         Audio           Lens Type         N/A         Audio           Mount Type         C/CS         Network           Focal Length         N/A         N/A           Max A perture         N/A         NETWORK           Angle of View         N/A         HTTP:HTTP:TC-AxePatSys-RTP-U0P-MTP-PTP-D0F-DNS.0008, PPCE-IN-VA.6CS.05.PM-PTP-Binoquir 2021 Librations of the Product of t	Minimum Illumination	0.05Lux/F1.2(Color,1/30s,30IRE) 0.003Lux/F1.2(B/W,1/3s,30IRE)	Smart IR	N/A
IR Distance			Defog	Support
IR LEDS	S/N Ratio	More than 50dB	Digital Zoom	16x
Record   Privary Masking	IR Distance	N/A	Flip	0°/90°/180°/270°
Lens Type	IR On/Off Control	N/A	Mirror	Off / On
Lens Type	IR LEDs	N/A	Privacy Masking	Off / On (4 Area, Rectangle)
Network	Lens		Audio	
Network	Lens Type	N/A	Compression	G.711a/ G.711Mu/ AAC/ G.726
Max. Aperture         N/A         RU-By [LOV/3000483e-1]         RU-By [LOV/3000483e-1]           Angle of View         N/A         Protocol         HTTP;HTTP;CTP;AP,AP,RTSP;RTP;UDP;SMTP;FTP; DHC;DNDS;PPPOE;IP>4/A6;AbS,UPIE;NITP; Bonjour;802.1x;Multicast;CMP;IcMMP;SMMP           Optical Zoom         N/A         Interoperability         ONVIF, PSIA, CGI           Focus Control         N/A         Streaming Method         Unloast / Multicast           Close Focus Distance         N/A         Max. User Access         10 Users/20 Users           Pan/Tilt/Rotation         Edge Storage         N/A           Intelligence         N/A         Web Viewer         IE, Chrome, Firefox, Safari           Ivs         Tripwire, Intrusion, Object Abandoned/Missing         Management Software         Smart PSs, DSS, Easy4lip           Advanced Intelligent Functions         Face Detection, People Counting, Heat Map         Smart Phone         IOS, Android           Video         Certifications         Certifications           Video         Certifications         Ce (E (E 60950:2000)           UVUL060950-1         ECCE; FCC Part 15 Subpart B           Streaming Capability         3 Streams         Interface           Wideo Interface         1 port(BNC,1Vp. p./50)           1 post(BNC,1Vp. p./50)         1 post(BNC,1Vp. p./50)	Mount Type	C/CS	Network	
Angle of View         N/A         Protocol         Protocol         Protocol BHEP(BNE), DIDNE, PRP OE, IPFA/H, GLOS JUPP, NTP; Bonjour, 202, 1x, Multicast; ICMP, ICMP, SMMP           Optical Zoom         N/A         Interoperability         ONVIF, PSIA, CGG         VIMA           Focus Control         N/A         Streaming Method         Unicast / Multicast           Close Focus Distance         N/A         Max. User Access         10 Users/20 Users           Pan/Tilt/Rotation         BEdge Storage         NAS Local PC for instant recording Mirro SD card 1286GB           Intelligence         Web Viewer         IE, Chrome, Firefox, Safari           IVS         Tripwire, Intrusion, Object Abandoned/Missing         Management Software         Smart P55, D5S, Easy4lip           Advanced Intelligent Functions         Face Detection, People Counting, Heat Map         Smart Phone         IOS, Android           Video         Certifications         Certifications         CE (EN 60950:2000)           Video         Certifications         Certifications           Streaming Capability         3 Streams         Interface           Resolution         120M(2000x0000) 4K[384002150]/60M(2000x000) 4K[384002150]/60M(2000x0000) 4K[384002150]/60M(2000x0000) 4K[384002150]/60M(2000x0000) 4K[384002150]/60M(2000x0000) 4K[384002150]/60M(2000x00000) 4K[384002150]/60M(2000x000000x0000x0000) 4K[384002150]/60M(2000x000000x0000x0000x00000x0000x0000	Focal Length	N/A	Ethernet	RJ-45 (100/1000Base-T)
Optical Zoom N/A Interoperability ONVIF, PSIA, CGI  Focus Control N/A Streaming Method Unicast / Multicast  Close Focus Distance N/A Max. User Access 10 Users/20 Users  Pan/Tilt/Rotation Pan/Tilt/Rotation Range N/A Max. User Access 10 Users/20 Users  Edge Storage N/A Local Pc for instant recording Mirco 5D card 128GB  Intelligence Web Viewer IE, Chrome, Firefox, Safari  IVS Tripwire, Intrusion, Object Abandoned/Missing Management Software Smart PSS, DSS, Easy4ip  Advanced Intelligent Functions  Face Detection, People Counting, Heat Map Smart Phone IOS, Android  Video Certifications  Certifications  Certifications  Certifications  Certifications  Certifications  Certifications  Certifications  Interface  Interface  Video Interface 1 port(BNC,IVp-p.75G)  Audio Interface 1/1 Lahannel In/Out, 1 Built-in Mic  Video Nain Stream: 12M(Ir-20fps)/ 4K(Ir-25/30fps)  Frame Rate  Sub Stream: 01 (1 ~ 25/30fps)  Third Stream: 1080P(Ir-25/30fps)  Bit Rate Control CBR/BR  Power Supply  DC12V, AC24V, PoE(802.3af)(Class 0)  Fower Supply  DC12V, AC24V, PoE(802.3af)(Class 0)  Fower Consumption <a href="#power-consumption">SWW</a>			Protocol	DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP;NTP;
Focus Control   N/A   Streaming Method   Unicast / Multicast	-		Interoperability	
Close Focus Distance   N/A   Max. User Access   10 Users/20 Users				
Pan/Tilt/Rotation         Edge Storage         NAS Local PC for instant recording Mirco 5D card 128GB           Intelligence         Web Viewer         IE, Chrome, Firefox, Safari           IVS         Tripwire, Intrusion, Object Abandoned/Missing         Management Software         Smart PSS, DSS, Easy4ip           Advanced Intelligent Functions         Face Detection, People Counting, Heat Map         Smart Phone         IOS, Android           Video         Certifications         CE (EN 60950-2000)           Compression         H.265+/H.265/H.264+/H.264         Certifications         Certifications           Streaming Capability         3 Streams         Interface           Interface         Video Interface         Video Interface         1 port(BNC, IVP-p.750)           Resolution         Main Stream; Di (17 25/30fps)         Audio Interface         1/1 channel In/Out, 1 Built-in Mic           RS485         1 port           Main Stream; Di (17 25/30fps)         Alarm         2 channel In: 5mA 5VDC 1 channel Out: 1A 30VDC / 0.5A 50VAC           Bit Rate Control         CBR/VBR         Power Supply         DC12V, AC24V, PoE(802.3af)(class 0)           Bit Rate         H.264: 24* 16384Kbps H.265: 14* 9984Kbps         Power Consumption         <8W			-	
Edge Storage		.,,.	Wax. User Access	
Name		N/A	Edge Storage	Local PC for instant recording
Namagement Software   Smart PSS, DSS, Easy4ip	Intelligence		Web Viewer	IE, Chrome, Firefox, Safari
Video         Certifications           Compression         H.265+/H.265/H.264+/H.264         Certifications           Streaming Capability         3 Streams         Certifications           Resolution         12M(4000x3000)/ 4K(3840x2160)/ 6M(3072x2048)/5M(2560x1920)/ 3M(204x156)/3M(2304x1296)/ 1080P(1920x1080)/ 1.3M(1280x960)/ 720P(1280x720)/ D1(704x576/704x480)/ VGA(640x480)/ CIF(352x288/342x240)         Video Interface         1 port(BNC,1Vp-p,75Q)           Frame Rate         Main Stream: 12M(1~20fps)/ 4K(1~25/30fps)         Alarm         2 channel In: 5mA 5VDC 1 channel Out: 1A 30VDC / 0.5A 50VAC           Bit Rate Control         CBR/VBR         Power Supply         DC12V, AC24V, PoE(802.3af)(Class 0)           Bit Rate         H.264: 24~16384Kbps H.265: 14~9984kbps         Power Consumption         < 8W	_	Tripwire, Intrusion, Object Abandoned/Missing	Management Software	Smart PSS, DSS, Easy4ip
Video         Certifications           Compression         H.265+/H.265+H.264+/H.264         Certifications         CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B           Streaming Capability         3 Streams         Interface           Resolution         (M(30072x2048)/5M(2560x1920)/3M(204x1296)/3M(204x1296)/1080P(1920×1080)/1.3M(1280×960)/720P(1280x720)/D1(704x576/704x480)/VCA(640x480)/VCA(64	Advanced Intelligent Functions	Face Detection, People Counting, Heat Map	Smart Phone	IOS, Android
Certifications			Certifications	
Streaming Capability   3 Streams   12M(4000x3000)/ 4k(3840x2160)/6M(3072x2048)/5M(2560x1920)/3M(2048x1536)/3M(2304x1296)/1080P(1920x1080)/1.3M(1280x960)/720P(1280x720)/D1(704x576/704x480)/VGA(640x48		H.265+/H.265/H.264+/H.264		· · · · · · · · · · · · · · · · · · ·
12M(4000x3000)/ 4K(3840x2160)/6M(3072x2048)/ 5M(2560x1920)/3M(2048x1536)/ 3M(2304x1296)/1080P(1920x1080)/1.3M(1280x960)/720P(1280x720)/D1(704x576/704x480)/VGA(640x480)/CIF(352x288/342x240)	·		Certifications	
Resolution       3M(2048x1536)/ 3M(2304x1296)/ 1080P(1920×1080)/ 1.3M(1280x960)/ 720P(1280x720)/ D1(704×576/704x480) / VGA(640x480)/ CIF(352×288/342x240)       Audio Interface       1/1 channel In/Out, 1 Built-in Mic         Frame Rate       Main Stream: 12M(1~20fps)/ 4K(1~25/30fps)       RS485       1 port         Frame Rate       Sub Stream: D1 (1~25/30fps)       Alarm       2 channel In: 5mA 5VDC 1 channel Out: 1A 30VDC / 0.5A 50VAC         Bit Rate Control       CBR/VBR       Power Supply       DC12V, AC24V, PoE(802.3af)(Class 0)         Bit Rate       H.264: 24~16384Kbps H.265: 14~9984Kbps       Power Consumption       <8W	g supusty	12M(4000x3000)/ 4K(3840x2160)/ 6M(3072x2048)/ 5M(2560x1920)/ 3M(2048x1536)/ 3M(2304x1296)/ 1080P(1920×1080)/ 1.3M(1280x960)/ 720P(1280x720)/ D1(704×576/704x480) /	Interface	
1080P(1920×1080)/ 1.3M(1280x960)/   720P(1280x720)/ D1(704×576/704x480) / VGA(640x480) / VGA(640x480) / VGA(640x480) / CIF(352×288/342x240)   RS485   1 port	Resolution		Video Interface	1 port(BNC,1Vp-p,75Ω)
Main Stream: 12M(1~20fps)/ 4K(1~25/30fps)   RS485   1 port	Resolution		Audio Interface	1/1 channel In/Out, 1 Built-in Mic
Frame Rate         Sub Stream: D1 (1 ~ 25/30fps)         Alarm         2 channel In: 5mA 5VDC 1 channel Out: 1A 30VDC / 0.5A 50VAC           Third Stream: 1080P(1~25/30fps)         Electrical           Bit Rate Control         CBR/VBR         Power Supply         DC12V, AC24V, PoE(802.3af)(Class 0)           Bit Rate         H.264: 24~16384Kbps H.265: 14~9984Kbps         Power Consumption         <8W			RS485	1 port
Third Stream: 1080P(1~25/30fps)  Electrical  Bit Rate Control  CBR/VBR  Power Supply  DC12V, AC24V, PoE(802.3af)(Class 0)  Bit Rate  H.264: 24~16384Kbps H.265: 14~9984Kbps  Power Consumption  8W	Frame Rate		Alarm	
Bit Rate Control  CBR/VBR  Power Supply  DC12V, AC24V, PoE(802.3af)(Class 0)  Bit Rate  H.264: 24~16384Kbps H.265: 14~9984Kbps  Power Consumption  <8W				1 channel Out: 1A 30VDC / 0.5A 50VAC
Bit Rate H.264: 24~ 16384Kbps H.265: 14~ 9984Kbps Power Consumption <8W	Bit Rate Control			DC12V AC24V PoF(RO2 3af)(Class O)
	Bit Rate	H.264: 24~ 16384Kbps		
	Day/Night	·		

# Ultra Series | DH-IPC-HF81230E

# Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Strorage Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Ingress Protection	N/A
Vandal Resistance	N/A

# Construction

Casing	Metal
Dimensions	135.4mm×74.4mm×65.5mm (5.33"×2.93"×2.58")
Net Weight	0.66Kg (1.46lb)
Gross Weight	0.77Kg (1.7lb)

Ordering Information				
Туре	Part Number	Description		
12MP camera	DH-IPC-HF81230EP	12MP Box Network Camera, PAL		
	DH-IPC-HF81230EN	12MP Box Network Camera, NTSC		
	IPC-HF81230EP	12MP Box Network Camera, PAL		
	IPC-HF81230EN	12MP Box Network Camera, NTSC		
Accessories (optional)	PFB110W	Wall mount		
	PFB121W	Wall mount		

# Accessories

# **Optional:**





PFB110W Wall mount

PFB121W Wall mount

Wall Mount	Wall/Ceiling/Plane Mount
PFB121W	PFB110W

# Dimensions (mm/inch)

