

# DH-HAC-HFW1200D

2MP HDCVI IR Bullet Camera

# HDCVI



- · Max 30fps@1080P
- · HD and SD output switchable
- · 3.6mm fixed lens (6mm, 8mm optional)
- · Max. IR length 80m, Smart IR
- · IP67, DC12V











# **System Overview**

Experience full HD 1080P/ HD 720P video with the simplicity of using existing cabling infrastructure. The Lite series features compact design and high quality image at friendly price. It offers various vari-focal/fixed lens models with multi-language OSD and HD/SD switchable output. The structure flexibility and best cost-performance makes lite series camera an ideal choice for SMB solutions.

## **Functions**

# 4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals to be transmitted over 1 daxial cable simultaneously, i.e. video, audio\*, data and power. Dybovay data transmission allows the HDCVI camera to interact with the CVR, such as sending control signal or triggering alarm. Moreover, HDCVI technology supports PoC for construction flexibility.

\* Audio input is available for some models of HDCVI cameras

# **Long Distance Transmission**

HDCVI technology guarantees real-time transpission at long distance without any loss. It supports up to 800m(180P)/1200m(720P) transmission via coaxial cable, and up to 400m(1080P)/450m(720P) via UTP cable.\*

\*Actual results verified by real-scene testing in Done's test laboratory.

#### Simplicity

HDCVI technology inherits the sorn feature of simplicity from traditional analog surveillance system wisking itself a best choice for investment protection. HDCVI system seamlessly upgrade the traditional analog system without replacing existing coaxial cabling. The plug and play approach enables will HD video surveillance without the hassle of configuring a network.

#### Smart IR

The camera Designed with array LED IR illumination for best lowlight performance. Smart IR is a technology to ensure brightness uniformity in B/W mage under low illumination. Dahua's unique Smart IR adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object, and prevents IR LEDs from overexposing images as the object come closer to the camera.

#### Multi-formats

The can supports multiple video formats including HDCVI, CVBS and other formats can be suched over through OSD menu or by PFM820(UTC controller). This feature makes the camera to be compatible with not only HCVRs but also most end users' existing HD/SD DVRs.

#### Multi-language OSD

OSD menu provides multiple image adjustments and function settings to meet the requirements of different monitoring scenes. The OSD menu includes configurations such as backlight mode, day/night, white balance, privacy mask and motion detect. The camera supports 11 languages for OSD menu, namely, Chinese, English, French, German, Spanish, Portuguese, Italian, Japanese, Korean, Russian and Polish.

### Protection

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust with IP67 ranking, making it suitable for indoor or outdoor environments. With working temperature range of-40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments. Supporting  $\pm 25\%$  input voltage tolerance, this camera suits even the most unstable power supply conditions. Its 4KV lightning rating provides protection against the camera and its structure from the effects of lightning.

# Lite Series | DH-HAC-HFW1200D

Noise Reduction White Balance

Smart IR

Auto / Manual

Auto / Manual

Image Sensor  1/2.7" CMOS  Interface  Interface  Scanning System  Progressive  Audio Interface  Audio Interface  N/A  Electronic Shutter Speed  PAL: 1/25~1/100000s NTSC: 1/30~1/100000s NTSC: 1/30~1/100000s NTSC: 1/30~1/100000s  Minimum Illumination  O.02Lux/F2.0, OLux IR on  Power Supply  12V DC ±25%  Power Consumption  Environmental  IR Distance  Up to 80m (262feet)  IR On/Off Control  Auto / Manual  Operating Conditions  Auto / Manual  IR LEDs  2  Storage Conditions  Ingress Protection & Vandar Resistance  Ingress Protection & Vandar Resistance  Mount Type  Board-in  Casing  Aluminium  Feed Length	FR 47 FCC Part 15 subpartB, ANSI-S63, 160950-1+CAN/CSA C22.2 No. 60950-1)  C+25%  8W (22VDC, IR on)  "+60°C (-40°F ~ +140°F) / Less than 90%  "up should be done at above -40°C (-40°C (-40°C (-40°F ~ +140°F) / Less than 90%  "+60°C (-40°F ~ +140°F) / Less than 90%  "hium  nm×90.4mm×90.4mm (9.52"×3.56
Effective Pixels   1920H01x1080(V), 2MP	2±25%  8W (22V)CC, IR on)  3+60°C (-40°F ~ +140°F) / Less than 90%  up should be done at above -40°C (-40°C (-40°F ~ +140°F) / Less than 90%  -+60°C (-40°F ~ +140°F) / Less than 90%  nium  nm×90.4mm×90.4mm (9.52"×3.56"×3.5
Minimum   Illumination	8W (\$2V,DC, IR on)  2+60°C (-40°F ~ +140°F) / Less than 90°C  4+60°C (-40°F ~ +140°F) / Less than 90°C  4+60°C (-40°F ~ +140°F) / Less than 90°C  4-60°C (-40°F ~ +140°F) / Less than 90°C  6-40°F ~ +140°F) / Less than 90°C  7-40°F ~ +140°F) / Less than 90°C  8-40°C (-40°F ~ +140°F) / Less than 90°C  9-40°C (-40°F ~ +140°F) / Less than 90°C  9-4
Minimum Illumination	8W (\$2V,DC, IR on)  2+60°C (-40°F ~ +140°F) / Less than 90°C  4+60°C (-40°F ~ +140°F) / Less than 90°C  4+60°C (-40°F ~ +140°F) / Less than 90°C  4-60°C (-40°F ~ +140°F) / Less than 90°C  6-40°F ~ +140°F) / Less than 90°C  7-40°F ~ +140°F) / Less than 90°C  8-40°C (-40°F ~ +140°F) / Less than 90°C  9-40°C (-40°F ~ +140°F) / Less than 90°C  9-4
Minimum   Illumination	8W (\$2V,DC, IR on)  2+60°C (-40°F ~ +140°F) / Less than 90°C  4+60°C (-40°F ~ +140°F) / Less than 90°C  4+60°C (-40°F ~ +140°F) / Less than 90°C  4-60°C (-40°F ~ +140°F) / Less than 90°C  6-40°F ~ +140°F) / Less than 90°C  7-40°F ~ +140°F) / Less than 90°C  8-40°C (-40°F ~ +140°F) / Less than 90°C  9-40°C (-40°F ~ +140°F) / Less than 90°C  9-4
Power Consumption  Max 6.8W (kzy@c, IR on)  Power Consumption  Max 6.8W (kzy@c, IR on)  Environmental  Operating Conditions  40°c +60°C (-40°F ~ +140°F) / Less  Ingress Protection & Vando and above -  Storage Conditions  Operating Conditions	8W (2V)C, IR on)  ~+60°C (-40°F ~ +140°F) / Less than 90°S  up should be done at above -40°C (-40°C (-40°F ~ +140°F) / Less than 90°S  ~+60°C (-40°F ~ +140°F) / Less than 90°S  nium  nm×90.4mm×90.4mm (9.52"×3.56"×3.5
IR Distance Up to 80m (262feet)  IR On/Off Control Auto / Manual  Operating Conditions	~ +60°C (-40°F ~ +140°F) / Less than 90°C up should be done at above -40°C (-40°C -40°C) / Less than 90°C (-40°F ~ +140°F) / Less than 90°C (-40°F ~ +140°F ~ +140°F) / Less than 90°C (-40°F ~ +140°F ~ +140°F ~
IR ON/OFF Control Auto / Manual  Operating Conditions  Auto / Manual  Operating Conditions  Auto / C. 460°C (-40°F ~ +140°F) / Less  IR LEDS  2  Storage Conditions  Auto / C. 460°C (-40°F ~ +140°F) / Less  Ingress Protection & Vandal Resistance  IP67  Casing Aluminium  Dimensions  Auto (Lallb)  Auto (LCR) / T. 89.9°(59.4°/41.4°)  Focus Control  N/A  Close Focus Distance  Community (1.7018)  Pan / Tilt / Rotation  Pan / Tilt / Rotation  Pan (1.0° ~ 360°  Resolution  1080P (1920×1080)  Frame Rate  25/30/ps@1080P, 25/30/59/ptps@720P  Video Output  1 channel BNC high of into nideo output / CVBs video output (can switch)  Day/Night Auto (ICR) / Manual  BLC Mode  BLC Mode  Operating Conditions  Auto (ICR) / Manual  Storage Conditions  Auto (ICR) / F. +140°F) / Less  Storage Conditions  Auto (ICR) / Manual  Auto (ICR) / Manual  Storage Conditions  Auto (ICR) / Manual  Auto (ICR) / Manual  Operating Conditions  Auto (ICR) / Manual  Storage Conditions  Auto (ICR) / Manual  Auto (ICR) / Manual  Operating Conditions  Auto (ICR) / Manual  Operating Conditions  Auto (ICR) / Manual  Auto (ICR) / Manual  Operating Conditions  Ingress Protection & Autonical Resistance  Construction & Autonical Resistance	nm×90.4mm×90.4mm (9.52"×3.56"×3.56" (1.41lb)
IR On/Off Control  Auto / Manual  Operating Conditions  Storage Conditions  Storage Conditions  Auto / C ~ +60°C (-40°F ~ +140°F) / Less  Lens  Lens Type  Fixed lens / Fixed iris  Mount Type  Board-in  Somm (6mm, 8mm Optional)  Focal Length  Angle of View  H: 89.9°(59.4°/41.4°)  Focus Control  N/A  Close Focus Distance  Pan / Tilt / Rotation  Pan / Tilt / Rotation  Pan : 0° ~ 360°  Tilt: 0° ~ 81°  Rotation: 0° ~ 360°  Video  Resolution  1080P (1920×1080)  Frame Rate  25/30/fps@1080P, 25/30/50/g0lps@720P  Video Output  1-channel BNC high decilipation video output / CVBs video Output (Can switch)  Day/Night  Auto (ICR) / Marker  OSD Menu  Multi-language  BLC Mode  Storage Conditions  40°C ~ +60°C (-40°F ~ +140°F) / Less  Ingress Protection &Vanda  Aluminium  Casing  Aluminium  Dimensions  Aluminium  Dimensions  Aluminium  Dimensions  Net Weight  0.64kg (1.41lb)  670* Weight  0.77kg (1.70lb)  Frame Rate  Video Output  1-channel BNC high decilipation video output / CVBs video output (Can switch)  Day/Night  Auto (ICR) / Marker  OSD Menu  Multi-language  BLC Mode	nm×90.4mm×90.4mm (9.52"×3.56"×3.56" (1.41lb)
Lens Type Fixed lens / Fixed iris  Construction  Casing Aluminium  Dimensions  Angle of View Fixed Fixed Wiley Focus Control  N/A  Close Focus Distance Pan / Tilt / Rotation  Pan / Tilt / Rotation  Pan (100 me)  Residuation: 01 ** 850 ** Residuation: 01 ** 360 ** Residuation: 01 ** Residuation:	nium nm×90.4mm×90.4mm (9.52"×3.56"×3.! ; (1.41lb)
Lens Type Fixed lens / Fixed iris  Construction  Casing Aluminium  Casing Aluminium  Casing Aluminium  Dimensions  241.8mmx90.4mm (9.52"x  Net Weight  0.64kg (1.41lb)  Construction  241.8mmx90.4mm (9.52"x  Net Weight  0.67kg (1.70lb)  Construction  Casing Aluminium  Dimensions  241.8mmx90.4mm (9.52"x  Net Weight  0.67kg (1.70lb)  Construction  Casing Aluminium  Dimensions  241.8mmx90.4mm (9.52"x  Net Weight  0.67kg (1.70lb)  Construction  Casing Aluminium  Dimensions  241.8mmx90.4mm (9.52"x  Net Weight  0.67kg (1.70lb)  Construction  Casing Aluminium  Dimensions  241.8mmx90.4mm (9.52"x  Net Weight  0.67kg (1.70lb)  Construction  Casing Aluminium  Dimensions  241.8mmx90.4mm (9.52"x  Net Weight  0.67kg (1.70lb)  Construction  Casing Aluminium  Dimensions  241.8mmx90.4mm (9.52"x  Net Weight  0.77kg (1.70lb)  Construction  Casing Aluminium  Dimensions  241.8mmx90.4mm (9.52"x  Net Weight  0.77kg (1.70lb)  Construction  Casing Aluminium  Dimensions  241.8mmx90.4mm (9.52"x  Net Weight  0.77kg (1.70lb)  Construction  1.67kg (1.70lb)  Construction  1.67kg (1.70lb)  Construction  1.67kg (1.70lb)  Construction  Casing Aluminium  Dimensions  241.8mmx90.4mm (9.52"x  Net Weight  0.77kg (1.70lb)  Construction  1.67kg (1.70lb)  Construc	nm×90.4mm×90.4mm (9.52"×3.56"×3.5
Mount Type  Board-in  Focal Length  3.6mm (6mm, 8mm Optional)  Dimensions  241.8mm×90.4mm×90.4mm (9.52"x  Net Weight  0.64kg (1.41lb)  Angle of View  H: 89.9"(59.4"/41.4")  Focus Control  N/A  Close Focus Distance  600mm (1800mm/3000mm) 23.62" (70.87"/118.11")  Pan / Tilt / Rotation  Pan/Tilt / Rotation  Pan/Tilt/Rotation  1080P (1920×1080)  Frame Rate  25/30fps@1080P, 25/30/50/fpifps@720P  Video Output  1-channel BNC high definition video output / CVBS video output (Cans which)  Day/Night  Auto (ICR) / Market  OSD Menu  BLC / Mode  Aluminium  Casing  Aluminium  Dimensions  241.8mm×90.4mm×90.4mm (9.52"x  Net Weight  0.64kg (1.41lb)  0.67kg (1.70lb)  Forward  Ospika (1.47lb)  Dimensions  241.8mm×90.4mm×90.4mm (9.52"x  Net Weight  0.77kg (1.70lb)  Frame Rate  241.8mm×90.4mm×90.4mm (9.52"x  Net Weight  0.77kg (1.70lb)  Frame Rate  241.8mm×90.4mm×90.4mm (9.52"x  Net Weight  0.77kg (1.70lb)  Frame Rate  25/30fps@1080P, 25/30/50/Fpifps@720P  Video Output  Uideo Output  1-channel BNC high definition video output / CVBS video output (Cans which)  Day/Night  Auto (ICR) / Market  OSD Menu  BLC / Mode  Aluminium  Dimensions  241.8mm×90.4mm×90.4mm (9.52"x  Net Weight  0.64kg (1.41lb)  O.64kg (1.41lb)  O.67kg (1.70lb)	nm×90.4mm×90.4mm (9.52"×3.56"×3.5
Focal Length 3.6mm (6mm, 8mm Optional)  Focal Length 3.6mm (6mm, 8mm Optional)  Max Aperture F2.0  Angle of View H: 89.9"(59.4"/41.4")  Focus Control N/A  Close Focus Distance 600mm (1800mm/3000mm) 23.62" (70.87"/118.11")  Pan / Tilt / Rotation  Pan: 0" ~ 360"  Tilt: 0" ~ 87"  Rotation: 0" ~ 360"  Video  Resolution 1080P (1920×1080)  Frame Rate 25/30fps@1080P, 25/30/50fpt/ps@720P  Video Output 1-channel BNC high definition video output / CVBS video output (Can switch)  Day/Night Auto (ICR) / Marchan  OSD Menu Multi-language  BLC Mode BLC Mode	nm×90.4mm×90.4mm (9.52"×3.56"×3.5
Max Aperture F2.0  Angle of View H: 89.9°(59.4°/41.4°)  Focus Control N/A  Close Focus Distance 600mm (1800mm/3000mm) 23.62" (70.87"/118.11")  Pan / Tilt / Rotation  Pan/Tilt/Rotation 7ilt: 0° ~ 360° 7ilt: 0° ~ 87° 80tation: 0° ~ 360°  Video  Resolution 1080P (1920×1080)  Frame Rate 25/30fps@1080P, 25/30/50fpfps@720P  Video Output 1-channel BNC high demition video output / CVBS video output (Can switch)  Day/Night Auto (ICR) / Markar  BLC Mode BLC Mode  Net Weight 0.64kg (1.41lb)  0.64kg (1.41lb)  0.77kg (1.70lb)  0.77kg (1.70lb)  1.64kg (1.41lb)  0.77kg (1.70lb)  1.70lb)	s (1.41lb)
Angle of View  H: 89.9°(59.4*/41.4*)  Focus Control  N/A  Close Focus Distance  600mm (1800mm/3000mm) 23.62" (70.87"/118.11")  Pan / Tilt / Rotation  Pan/Tilt/Rotation  Pan 0* ~ 360* Tilt: 0* ~ 87* Rotation: 0* ~ 360*  Video  Resolution  1080P (1920×1080)  Frame Rate  25/30fps@1080P, 25/30(50/60fps@720P)  Video Output  1-channel BNC high definition video output / CVBS video output (Can switch)  Day/Night  Auto (ICR) / Marwal  OSD Menu  Multi-language  BLC Mode  BLC Mode	
Focus Control  N/A  Close Focus Distance  23.62" (70.87"/118.11")  Pan / Tilt / Rotation  Pan: 0° ~ 360°  Tilt: 0° ~ 87° Rotation: 0° ~ 360°  Video  Resolution  1080P (1920×1080)  Frame Rate  25/30fps@1080P, 25/30/5/pfps@720P  Video Output  1-channel BNC high defliption video output / CVBS video output (Can switch)  Day/Night  Auto (ICR) / Manual  BLC Mode  BLC Mode	(1.70lb)
Resolution  1080P (1920×1080)  Frame Rate  25/30fps@1080P, 25/30(50/50)fps@720P  Video Output  1-channel BNC high defliption video output / CVBS video output (Can switch)  Day/Night  Auto (ICR) / Manuar  OSD Menu  Multi-language  BLC / Pec / DWDR	
Resolution  1080P (1920×1080)  Frame Rate  25/30fps@1080P, 25/30/56/p0fps@720P  Video Output  1-channel BNC high defujition video output / CVBS video output (Can switch)  Day/Night  Auto (ICR) / Manuar  OSD Menu  Multi-language  BLC / Ptc / DWDR	
Resolution  1080P (1920×1080)  Frame Rate  25/30fps@1080P, 25/30/56/p0fps@720P  Video Output  1-channel BNC high defujition video output / CVBS video output (Can switch)  Day/Night  Auto (ICR) / Manuar  OSD Menu  Multi-language  BLC / Ptc / DWDR	
Resolution  1080P (1920×1080)  Frame Rate  25/30fps@1080P, 25/30/56/p0fps@720P  Video Output  1-channel BNC high defujition video output / CVBS video output (Can switch)  Day/Night  Auto (ICR) / Manuar  OSD Menu  Multi-language  BLC / Ptc / DWDR	
Resolution  1080P (1920×1080)  Frame Rate  25/30fps@1080P, 25/30/56/p0fps@720P  Video Output  1-channel BNC high defujition video output / CVBS video output (Can switch)  Day/Night  Auto (ICR) / Manuar  OSD Menu  Multi-language  BLC / Ptc / DWDR	
Frame Rate 25/30fps@1080P, 25/30/56/60fps@720P  Video Output 1-channel BNC high definition video output / CVBS video output (Can switch)  Day/Night Auto (ICR) / Manual  OSD Menu Multi-language  BLC / Ptc / DWDR	
Video Output  1-channel BNC high definition video output / CVBS video output (Can switch)  Day/Night  Auto (ICR) / Marvat  OSD Menu  Multi-language  BLC / Poor DWDR	
video Output (Can switch)  Day/Night Auto (ICR) / Manual  OSD Menu Multi-language  BLC Mode BLC / DEC / DWDR	
OSD Menu Multi-language  BLC Mode BLC ABO DWDR	
BLC Mode BLC ABO DWDR	
WDR DWDR	
WDR DWDR	

Ordering Information				
Туре	Part Number	Description		
2MP Camera	DH-HAC-HFW1200DP 3.6mm	2MP HDCVI IR Bullet Camera, PAL		
	DH-HAC-HFW1200DP 6mm			
	DH-HAC-HFW1200DP 8mm			
	DH-HAC-HFW1200DN 3.6mm	2MP HDCVI IR Bullet Camera, NTSC		
	DH-HAC-HFW1200DN 6mm			
	DH-HAC-HFW1200DN 8mm			
	PFA135	Junction box (For use alone or with PFA150 pole mount)		
Accessories	PFA150	Pole mount (For use with PFA135 junction box)		
	PFM820	UTC Controller		

### Accessories

#### Optional:







PFA150 Pole mount



PFM820 UTC Controller

Junction Mount	Pole Mount
PFA135	PFB135 + PFA150
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