Functions

4 Signals over 1 Coaxial Cable
HDCVI technology supports 4 signals to be transmitted over 1 coaxial cable simultaneously, i.e. video, audio*, data and power. Dual-way data transmission allows the HDCVI camera to interact with the HCVR, 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 transmission at long distance without any loss. It supports up to 700m transmission for 4MP HD video via coaxial cable, and up to 450m via UTP cable.*
*Actual results verified by real-scene testing in Dahua's test laboratory.

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

Smart IR
The camera is designed with array LED IR illumination for best lowlight performance. Smart IR is a technology to ensure brightness uniformity in B/W image 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.

HD/SD Switchable

The camera supports switchable HDCVI high definition video output and CVBS standard definition video output. The two formats can be switched over through OSD menu or by PFM820(UTC controller). This feature makes the camera to be compatible with both HCVRs and existing analog DVRs and also facilitates debugging through analog testers.

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.

Elaborate Design

In order to minimize the interference against on-going business activities, as well as meeting aesthetics requirements, the camera is designed with dark front face.

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 ±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.

Camera	
Image Sensor	1/3" CMOS
Effective Pixels	2688(H)×1520(V), 4.1MP
Scanning System	Progressive
Electronic Shutter Speed	PAL: 1/25~1/100000s
	NTSC: 1/30~1/100000s
Minimum Illumination	0.03Lux/F2.0, 30IRE, 0Lux IR On
S/N Ratio	More Than 65dB
IR Distance	Up To 20m (66feet)
IR On/Off Control	Auto / Manual
IR LEDs	12
Lens	
Lens Type	Fixed lens / Fixed Iris
Mount Type	Board-in
Focal Length	3.6mm
Max Aperture	F2.0
Angle of View	H: 84.8°
Focus Control	N/A
Close Focus Distance	1100mm (800mm/2200mm)
	43.3'' (31.5''/86.6'')

DORI Distance		
Note: The DORI distance is a "general proximity" of distance which makes it easy to pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively.		
	DORI Definition	Distance
Detect	25px/m (8px/ft)	2.8mm: 63m(208ft)
		3.6mm: 80m(262ft)
		6mm: 117m(385ft)
Observe	63px/m (19px/ft)	2.8mm: 25m(83ft)
		3.6mm: 32m(105ft)
		6mm: 47m(154ft)
Recognize	125px/m (38px/ft)	2.8mm: 13m(42ft)
		3.6mm: 16m(53ft)
		6mm: 23m(77ft)
Identify	250ppm (76px/ft)	2.8mm: 6m(21ft)
		3.6mm: 8m(26ft)
		6mm: 12m(39ft)
Video		
Resolution	4MP (2560×1440)	
Frame Rate	25/30fps@4MP, 25/30fps@1080P, 25/30fps@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 Mode	BLC / HLC / DWDR	
WDR	DWDR	
Gain Control	AGC	
Noise Reduction	2D	
White Balance	Auto / Manual	
Smart IR	Auto / Manual	
Interface		
Audio Interface	N/A	
Eelectrical		
Power Supply	12V DC ±25%	
Power Consumption	Max 3.2W (12V DC, IR on)	
Environmental		
Operating Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH	
	* Start up should be done at above -40°C (-40°F)	
Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH	
Ingress Protection &Vandal	IP67	
Construction		
Casing	Aluminium	
Dimensions	176mm×72.4mm×72.5mm (6.93"×2.85"×2.85")	
Net Weight	0.36kg (0.79lb)	
Gross Weight	0.43kg (0.95lb)	

Dimensions (mm)