Functions

Smart Codec (H.265+ & H.264+)
With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

Motion Detection
When moving objects appear in the monitoring image, Motion Detection (General) technology triggers alarm or records.

Wide Dynamic Range (WDR)
With advanced Wide Dynamic Range (WDR) technology, network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

Smart IR
Smart IR technology can display image in the environment of low illuminance or completely dark environment. According to the distance of the targets, the camera adjusts IR LEDs intensity automatically to display the details of the moving target.

Protection (IP67, IK10, wide voltage)
IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 m (Impact energy is 20J).

Wide voltage: The camera allows ±30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

200220

Camera	
Image Sensor	1/3" 4Megapixel Progresive CMOS
Effective Pixels	2688 (H) ×1520 (V)
RAM/ROM	128MB/128MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100000 s
Minimum Illumination	0.03 Lux @ F2.0
IR Distance	30 m (98.4 ft)
IR On/Off Control	Auto/ Manual
IR LEDs	3

Lens					
Lens Type	Fixed				
Mount Type	M12				
Focal Length	2.8 mm				
Max. Aperture	F2.0				
Angle of View	H:/93°, V:53°				
Iris Type	Fixed Fixed aperture				
Close Focus Distance	0.8 m (2.6 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	50.0 m (183.7 ft)	22.4 m (73.5 ft)	11.2 m (36.7 ft)	5.6m (18.4ft)

PT	
Pan/Tilt Range	Pan:0° ~355° ;Tilt:0° ~65° ;Rotation:0° ~355°

Video	
Compression	H.265/H.264H/MJPEG
Smart Codec	Yes
Streaming Capability	2 Streams
Resolution	2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440); 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 ×240)
Video Frame Rate	Main Stream: 2688 × 1520 (1 fps–20 fps), 2560 × 1440 (1 fps–25/30 fps)
	Sub Stream: 704 × 576 (1 fps–20/25 fps), 704 × 480 (1 fps–20/30 fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 32K~6144K
	H.265: 12K~ 6144K
Day/Night	Auto(ICR) / Color / B/W
BLC	Yes
HLC	Yes
WDR	120dB
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual/Regional custom
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detetion	Off / On (4 Zone, Rectangle)
Region of Interest	Off / On (4 Zone)
Smart IR	Yes
Digital Zoom	16x
Flip	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 Resolution.)
Mirror	Yes
Privacy Masking	4 Areas

Audio	
Compression	N/A

IDP1431F

Network	
Ethernet	RJ-45 (10/100Base-T)
Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; QoS; UPnP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP
Interoperability	ONVIF (Profile S/Profile G); CGI; Milestone; Genetec; P2P
User/Host	20
Edge Storage	Dahua Cloud; FTP; NAS
Web Viewer	IE, Chrome, Firefox
Management Software	Smart PSS, DSS,DMSS
Smart Phone	IOS, Android
Electrical	
Power Supply	DC12V, PoE (802.3af)
Power Consumption	<5.5W
Environmental	
Operating Conditions	-40° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Strorage Conditions	-40° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10
Construction	
Casing	Metal
Dimensions	81 mm × Φ109.9 mm (3.2" × Φ4.3")
Net Weight	0.35Kg (0.8lb)
Gross Weight	0.48Kg (1.1lb)

Dimensions (mm)