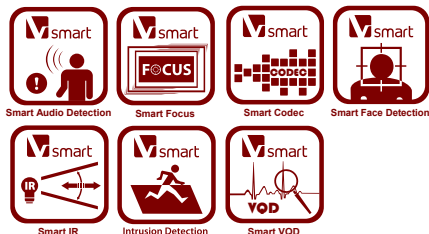


# DS-2CD4224F-I(Z)(S)(H)

## 2MP Full HD IR Bullet Network Camera

\* Product picture and technical specs subject to change without previous notice.  
For further information, please contact our local sales representatives.

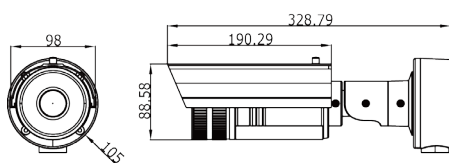


### smart IPC

#### Key features

- Up to 1920 x 1080 high resolution
- Full HD1080p video
- Smart Codec
- DWDR, 3D DNR
- Triple streams
- On-board storage, up to 64GB
- Smart Focus: Motorized VF lens (-Z)
- Smart VQD
- Smart Facial Detection
- Intrusion Detection
- Built-in heater
- Defog
- EIS (Electronic Image Stabilization)

#### Dimension (unit: mm)



#### Available Models

- DS-2CD4224F-I
- DS-2CD4224F-IS
- DS-2CD4224F-IZ
- DS-2CD4224F-IZS
- DS-2CD4224F-IZH
- DS-2CD4224F-IZHS

\* -Z: Motorized VF lens

\* -S: 1-ch audio I/O, 1-ch alarm I/O  
and 1-ch RS-485 interface

\* -H: Smart Heater

Camera	
Image sensor	1/2.8" progressive scan CMOS
Min. illumination	0.02 lux@F1.2, AGC on, 0.027 lux@F1.4, AGC on, 0 lux with IR
Shutter time	1s ~ 1/100,000s
Slow shutter	Yes
Lens	2.8 ~ 12mm @F1.4, angle of view: 113° ~ 33.8° (-Z: motorized VF lens) * 8~20mm @F1.6 lens (optional), angle of view: 40° ~ 16.5°
Lens mount	Ø14
Auto iris	DC drive
Day & night	ICR (Auto/Schedule/Alarm Trigger)
Digital noise reduction	3D DNR
Wide dynamic range	DWDR
Compression standard	
Video compression	H.264 / MPEG4 / MJPEG
H.264 codec profile	Baseline profile / main profile / high profile
Video bit rate	32 Kbps ~ 16 Mbps
Audio compression	G.711 / G.726 / MP2L2 *only for -S model
Audio bit rate	64Kbps (G.711) / 16Kbps (G.726) *only for -S model
Image	
Max. resolution	1920 x 1080
Frame rate	50 Hz: 25fps (1920 x 1080), 25fps (1280 x 960), 25fps (1280 x 720) 60 Hz: 30fps (1920 x 1080), 30fps (1280 x 960), 30fps (1280 x 720)
3rd stream	Independent setting, up to: 50Hz: 25fps (1920 x 1080), 60Hz: 30fps (1920 x 1080)
Image settings	Rotate mode, saturation, brightness, contrast, grayscale adjustable through client software or web browser
BLC	Yes, zone configurable
HLC	Yes
Defog	Yes
EIS	Yes
Picture overlay	128 x 128, BMP 24bit, zone configurable
ROI	Yes, up to 4 configurable areas.
Network	
Network storage	NAS
Alarm trigger	Intrusion detection, Defocus detection, Motion detection, Face detection, Dynamic analysis, Tampering alarm, Network disconnect, IP address conflict, Storage exception
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTp, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour (SIP optional)
Security	User authentication, watermark, IP address filtering, anonymous access, reset
System compatibility	ONVIF, PSIA, CGI
Interface	
Communication interface	1 RJ45 10M / 100M ethernet port
On-board storage	Built-in Micro SD/SDHC/SDXC slot, up to 64 GB
Reset button	Yes
General	
Operating conditions	-30°C ~ 60°C (-22°F ~ 140°F), humidity 95% or less (non-condensing) -H: -40°C ~ 60°C (-40°F ~ 140°F), with smart heater on
Power supply	12 VDC ± 10%, PoE (802.3af)
Power consumption	Max. 11W -Z/-H: Max. 12W
IR range	Up to 30m Up to 80m with 8~20m VF lens
Ingress protection	IP66
Dimensions	98 x 105 x 328.8 mm
Weight	1700 g (3.75 lbs)