KBVISION

KA-5D3FIRVP
Infrared dome camera

- 5 Megapixels resolution
- 2.8mm and 3.6mm fixed lens
- IR illuminator 100' [30m]
- H.264 / H.265 encoding
- Triple stream
- Perimeter intrusion analytics
- Stationary object detection
- Line cross counting
- PoE and 12VDC power
- IP67 weather resistant
- Onvif compatible
- Pedestrian detection
- Face detection

Technical Specification

Camera

Resolution	2592×1944 (5MP)
Effective pixels	5,038,848
Image sensor	progressive scan
Imager type and size	1/2.7" CMOS
Signal system	NTSC/PAL
Aspect ratio	17:10
Minimum illumination	0.05Lux @ (F1.2, AGC ON), 0 Lux with IR
Day night type	IR cut filter with auto switch, night vision with IR
Electronic shutter range	auto/manual (1/5 - 1/20,000s)
Signal-to-Noise Ratio (SNR)	≥ 52dB
Camera angle adjustment	pan ±180°, tilt 0° to +90°, rotation ±180° (depending on mounting configuration)
Memory	2GB RAM. 16MB Flash

Encoding

Video compression	H.264 / H.265 / H.264. / H.265+
Frame rate	Main stream: 5MP (2592×1944) @ 1-15fps;, 4MP (2592×1520) @ 1-20fps; 3MP (2048×1520), 1080P (1920×1080), 960P (1280×960), 720P (1280×720) @1-30fps. Sub-stream: 720P (1280×720), VGA (640×480), QVGA (320×240) @ 1-30fps. Mobile stream: VGA (640×480), QVGA (320×240) @ 1-30fps
Bit rate control	constant bit rate (CBR), constrained variable bit rate (CVBR) with configurable maximum value
Video streaming	triple streaming: unicast, multicast, mobilecast
Multi-view streaming	2 individually cropped out view areas
Data streaming	event data

Network

Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP/RTSP, PPPoE, SMTP, NTP, UPnP, FTP
Security	IP Network Filter, Allow or Disallow from IP addresses
Communication interface	RJ45 10M/100M Ethernet interface
System compatibility	Onvif v2.6, Profiles S+G, iOS, Android, 3d Party SDK
Users	10 concurrent connections

Lens

Lens type	fixed
Iris	auto
Focal length	2.8mm (-2F-IRVP) / 3.6mm (-3F-IRVP)
F-number	F 2.0 ±5%
Horizontal field of view	92° (-2F-IRVP) / 77° (-3F-IRVP)
Vertical field of view	51.7° (-2F-IRVP) / 43.3° (-3F-IRVP)
Minimum object distance	7.87" [20cm]
Pan/Tilt/Zoom (PTZ)	digital PTZ

Illuminator

Type	IR LED
Spectrum	infrared 810nm
Effective range	100' [30m]
IR LED count	18 SMD LEDs

Additional Features

Image settings	lens flip, angle flip, corridor mode, rotation 0° or 180°, defog mode, region-of-interest (8 user defined rectangle areas), privacy mask (up to 4 rectangle user defined zones)
Wide Dynamic Range (WDR)	140dB
Gain control	AGC off / low / medium high
White balance (range)	auto/manual_(R-G-B)/indoor (2,500° to 8,000°K)
Digital Noise Reduction (DNR)	yes (ON/OFF selectable)
Built-in installation aids	emote zoom, remote focus
Built-in analytics	perimeter (4 rules or lines with points A>B B<A and A<->B) line cross (4 rules or lines with points A>B B<A and A<->B) stationary object (4 rules with left/removed or both) pedestrian detection face detection cross counting (lane A-B can set as pedestrian or object crossing)
Noise reduction	3D DNR (auto, manual 1-256)
Event triggers	analytic events, motion detection (30x44 grid), lens cover
Event actions	email, log event
Text overlay	name and title on/off
Overlay transparency	user setting 1-128
Mirror	yes
Privacy zones	yes (up to 4 zones)
Application programming interface	open API for software integration
On-board storage	microSD maximum 128G

Environmental

Ingress protection	IP66
Vandal resistance	IK10
Operating temperature	-31°F to 131°F [-35°C to 60°C]
Storage temperature	-31°F to 131°F [-35°C to 60°C]
Operating humidity	100%RH condensing
Storage humidity	100%RH condensing

Electrical

Input voltage	12VDC ± 10%, PoE (802.3af)
Current draw at 12VDC	41mA IR off, 570mA IR on
Power (PoE)	0.5W IR off, 6.8W IR on
Surge protection	built-in TVS4000V, lightning-proof, surge-proof and wave-proof

Physical Characteristics

Dimensions	3.74"(H)×4.41"(Ø) 9.5cm(H)×11.2cm(Ø)
Weight	1.32lbs [0.60kg]
Connectors	Ethernet interface: RJ45 DC power

General

Safety/EMC standard	UL (UL60065), FCC (Part15 ClassA), C-UL (CAN/ CSA C22.2 No.60065), DOC (ICES003 ClassA)
Languages	English, French, German, Italian, Portuguese, Russian, Spanish, Turkish