

# KA-2D3FIRVP

Infrared mini-dome camera



- . 2 Megapixels resolution
- . 2.8mm or 3.6mm fixed lens
- . IR illuminator 100' [30m]
- . H.264 / H.265 encoding
- . Triple stream
- . Perimeter intrusion analytics
- . Line cross analytics
- . Object left behind analytics
- . PoE and 12VDC power
- . IP67 weather resistant
- . Onvif compatible
- . Local micro SD card storage

## Technical Specification

### Camera

Resolution	1920×1080 (2MP)
Effective pixels	2,073,600
Image sensor	progressive scan
Imager type and size	1/2.9" CMOS
Signal system	NTSC/PAL
Aspect ratio	16:9
Minimum illumination	0.01Lux @ (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	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, 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	83.1° (-2F-IRVP) / 69.1° (-3F-IRVP)
Vertical field of view	53° (-2F-IRVP) / 42.4° (-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	12 LEDs

### Audio

Audio Input/Output	1 input, 1 output
Streaming	dual-channel
Input	line in/RCA-F
Encoding	G711A, G711U, ADPCM, G726 (16k, 24k, 32k, 40k)

### Alarm

Input	1 input screw terminals
Output	1 PhotoMOS™ relay (30 V, 1 A) screw terminals
Triggers	unsupervised mode that detects switch closures (N.O. and N.C.)

### 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 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)
Noise reduction	3D DNR (auto, manual 1-256)
Event triggers	analytic events, motion detection (30×44 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	IP67
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]

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Operating humidity	100%RH condensing
Storage humidity	100%RH condensing

### Electrical

Input voltage	12VDC $\pm$ 10%, PoE (802.3af)
Current draw at 12VDC	41mA IR off, 233mA IR on
Power (PoE)	0.5W IR off, 2.8W IR on
Surge protection	built-in TVS4000V, lightning-proof, surge-proof and wave-proof

### Physical Characteristics

Dimensions	2.51"(H) $\times$ 4.7"( $\varnothing$ ) 6.38cm(H) $\times$ 11.95cm( $\varnothing$ )
Weight	0.8lbs [0.36kg]
Connectors	Ethernet interface: RJ45 DC power audio IN/OUT reset button

### 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

### Dimensions

