

KR-DNAi20LD

2MP WDR IR Dome AI Network Camera



- 1/2.8” 2Megapixel progressive scan STARVIS™ CMOS
- H.265&H.264 triple-stream encoding
- 25/30fps@1080P(1920×1080)
- WDR(120dB), Day/Night(ICR), 3D DNR, AWB, AGC, BLC
- 2.8mm fixed lens (3.6mm/6mm optional)
- Max. IR LEDs Length 40m
- Micro SD memory, IP67, IK10



| Technical Specification  |                                                                                             |
|--------------------------|---------------------------------------------------------------------------------------------|
| Camera                   |                                                                                             |
| Image Sensor             | 1/2.8” 2Megapixel progressive scan STARVIS™ CMOS                                            |
| Effective Pixels         | 1920(H) x 1080(V)                                                                           |
| RAM/ROM                  | 512MB/128MB                                                                                 |
| Scanning System          | Progressive                                                                                 |
| Electronic Shutter Speed | Auto/Manual, 1/3~1/100000s                                                                  |
| Minimum Illumination     | 0.002Lux/F1.6 ( Color,1/3s,30IRE)<br>0.012Lux/F1.6 ( Color,1/30s,30IRE)<br>0Lux/F1.6(IR on) |
| IR Distance              | Distance up to 40m (131ft)                                                                  |
| IR On/Off Control        | Auto/ Manual                                                                                |
| IR LEDs                  | 1                                                                                           |

| Lens                 |       |                                            |            |           |          |
|----------------------|-------|--------------------------------------------|------------|-----------|----------|
| Lens Type            |       | Fixed                                      |            |           |          |
| Mount Type           |       | Board-in                                   |            |           |          |
| Focal Length         |       | 2.8mm                                      |            |           |          |
| Max. Aperture        |       | F1.6                                       |            |           |          |
| Angle of View        |       | H: 106°, V:57°/H: 87°, V:46°/H: 53°, V:30° |            |           |          |
| Optical Zoom         |       | N/A                                        |            |           |          |
| Aperture Type        |       | Fixed                                      |            |           |          |
| Close Focus Distance |       | 0.6m(1.97ft)/1.2m(3.94ft)/2.5m(8.20ft)     |            |           |          |
| DORI Distance        | Lens  | Detect                                     | Observe    | Recognize | Identify |
|                      | 2.8mm | 39m(128ft)                                 | 15m(49ft)  | 8m(26ft)  | 4m(13ft) |
|                      | 3.6mm | 55m(180ft)                                 | 22m(72ft)  | 11m(36ft) | 6m(20ft) |
|                      | 6.0mm | 83m(272ft)                                 | 33m(108ft) | 17m(56ft) | 8m(26ft) |

|                         |                                            |
|-------------------------|--------------------------------------------|
| Pan / Tilt / Rotation   |                                            |
| Pan/Tilt/Rotation Range | Pan:0°~355°; Tilt:0°~75°; Rotation:0°~355° |

|                         |                                                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Artificial Intelligence |                                                                                                                                                                                      |
| Face Capture            | Support face image capture                                                                                                                                                           |
| Face Attributes         | Support 6 kinds of face attributes extraction:<br>Age, Gender,Expression(Jolly/Surprise/Normal/<br>Rage/Sad/Disgusted/Confused/Frightened),<br>Glasses,Mouth Mask, Moustache & Beard |
| Perimeter Protection    | Tripwire, Intrusion(Human & Vehicle classification)                                                                                                                                  |
| People Counting         | Line crossing people counting, Region people counting                                                                                                                                |

|                      |                                                                                                                                 |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------|
| General Intelligence |                                                                                                                                 |
| Event Trigger        | Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access,Storage anomaly |
| General Intelligence | Object Abandoned/Missing                                                                                                        |
| Video                |                                                                                                                                 |
| Compression          | H.265+/H.265/H.264+/H.264/H.264B/H.264H/<br>MJPEG(sub stream)                                                                   |
| Streaming Capability | 3 Streams                                                                                                                       |

|                                      |                                                                                                      |
|--------------------------------------|------------------------------------------------------------------------------------------------------|
| Resolution                           | 1080P(1920×1080)/1.3M(1280×960)/720P(1280×720)/D1(704×576/704×480)/VGA(640×480)/CIF(352×288/352×240) |
| Frame Rate                           | Main Stream: 1080P(1~25/30fps)                                                                       |
|                                      | Sub Stream: D1(1~25/30fps)                                                                           |
|                                      | Third Stream: 1080P(1~6fps)                                                                          |
| Bit Rate Control                     | CBR/VBR                                                                                              |
| Bit Rate                             | H.264: 32~ 8192Kbps<br>H.265: 19~ 7424Kbps                                                           |
| Day/Night                            | Auto(ICR) / Color / B/W                                                                              |
| BLC Mode                             | BLC / HLC / WDR(120dB)                                                                               |
| White Balance                        | Auto/Natural/Street Lamp/Outdoor/Manual                                                              |
| Gain Control                         | Auto/Manual                                                                                          |
| Noise Reduction                      | 3D DNR                                                                                               |
| Motion Detetion                      | Off / On (4 Zone, Rectangle)                                                                         |
| Region of Interest                   | Off / On (4 Zone)                                                                                    |
| Electronic Image Stabilization (EIS) | N/A                                                                                                  |
| Smart IR                             | Support                                                                                              |
| Defog                                | Support                                                                                              |
| Digital Zoom                         | N/A                                                                                                  |
| Flip                                 | 0°/90°/180°/270°                                                                                     |
| Mirror                               | Off / On                                                                                             |
| Privacy Masking                      | Off / On (4 Area, Rectangle)                                                                         |

|             |     |
|-------------|-----|
| Audio       |     |
| Compression | N/A |

|                     |                                                                                                           |
|---------------------|-----------------------------------------------------------------------------------------------------------|
| Network             |                                                                                                           |
| Ethernet            | RJ-45 (10/100Base-T)                                                                                      |
| Protocol            | HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP;SMTP;<br>FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMP;QoS;<br>UPnP;NTP |
| Interoperability    | ONVIF(Profile S/Profile G),<br>CGI,Milestone,Genetec,P2P                                                  |
| Streaming Method    | Unicast / Multicast                                                                                       |
| Max. User Access    | 20 Users                                                                                                  |
| Edge Storage        | NAS<br>FTP<br>Mirco SD card 256GB                                                                         |
| Web Viewer          | IE(versions newer than IE8), Chrome,<br>Firefox, Safari(versions newer than Safari 12)                    |
| Management Software | KBiVMS, KBView Pro                                                                                        |
| Smart Phone         | iOS, Android                                                                                              |

|                 |     |
|-----------------|-----|
| Interface       |     |
| Video Interface | N/A |
| Audio Interface | N/A |
| RS485           | N/A |
| Alarm           | N/A |

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Electrical

|                   |                                              |
|-------------------|----------------------------------------------|
| Power Supply      | DC12V(±30%), PoE(802.3af)(Class 0)           |
| Power Consumption | DC12V:1.9W 4.5W(IR on)<br>PoE:2.4W 5W(IR on) |

Environmental

|                      |                                                                                                    |
|----------------------|----------------------------------------------------------------------------------------------------|
| Operating Conditions | -30° C ~ +60° C (-22° F ~ +140° F) / 10%RH~95% RH                                                  |
| Storage Conditions   | +5° C ~ +40° C (+41° F ~ +104° F) (daily temperature difference within 15° C/59° F) / 10%RH~95% RH |
| Ingress Protection   | IP67                                                                                               |
| Vandal Resistance    | IK10                                                                                               |

Construction

|              |                             |
|--------------|-----------------------------|
| Casing       | Metal                       |
| Dimensions   | Φ122mm×88.9mm (4.80"×3.50") |
| Net Weight   | 0.43Kg (0.95lb)             |
| Gross Weight | 0.59Kg (1.30lb)             |

Dimensions (mm/inch)

