



# ExCam DEX5000i

Explosion proof camera

DEX-DTS-26-465-A



## IQSIGHT

- **ATEX, IECEx Zone 1/21 certified**
- **Starlight camera technology with excellent lowlight performance**
- **120dB dynamic range lets you capture details in overexposed situations with confidence**
- **Intelligent streaming, IDNR and H.265 reduce bit rate by up to 80%**
- **Built-in Essential Video Analytics to trigger relevant alerts and quickly retrieve data**
- **High resolution bubble to ensure maximum effective resolution output**

### Technical Specifications

#### Sensor

|                          |                 |
|--------------------------|-----------------|
| Sensor type              | 1/2.8 inch CMOS |
| Effective pixels (H x V) | 1,945 x 1,097   |
| Total sensor pixels      | 2.13 MP approx. |

#### Optical

|                              |                 |
|------------------------------|-----------------|
| Lens zoom (x)                | 30x             |
| Lens focal length (mm)       | 4.5 mm – 135 mm |
| Lens aperture (/F)           | 1.6 /F – 4.4 /F |
| Horizontal field of view (°) | 2.4° – 60.9°    |
| Digital zoom (x)             | 16x             |

#### Sensitivity

|                      |                             |
|----------------------|-----------------------------|
| Low light technology | starlight                   |
| Measuring method     | IEC 62676 Part (1/30, F1.6) |
| Color (lx)           | 0.0186 lx                   |
| Monochrome (lx)      | 0.0040 lx                   |

#### Platform

|                         |                          |
|-------------------------|--------------------------|
| Common Product Platform | CPP7.3                   |
| Memory (RAM) (MB)       | 512 MB RAM, 256 MB Flash |

#### Video functions

|   |   |
|---|---|
| Backlight compensation                      | On/Off; Intelligent Auto Exposure(IAE)  |
| Camera functionality                        | Backlight compensation (BLC); Display stamping  |
| Day/night modes                             | ing   |
| Gain control                                | Auto; Color; Monochrome   |
| WDR technology                              | AGC   |
| High Dynamic Range (HDR) (dB)               | HDR   |
| Measured according to IEC 62676 Part 5 (dB) | 120 dB  |
| Number of privacy masks                     | 107 dB  |
| Number of sectors                           | 32  |
| Privacy masks pattern                       | 16  |
| Shutter modes                               | Black; White; Gray; Auto color Automatic Electronic Shutter (AES).  |
| Tours                                       | Recorded tours: two (2), maximum total duration 15 minutes (depending on the amount of commands sent during recording); Pre-position tour: One (1), consisting of up to 256 scenes consecutively, and one (1), customized up to 64 scenes |
| White balance modes                         | Basic; Standard; Dominant color; Sodium lamp auto   |

All specifications, dimensions, weight and tolerances are nominal (typical) and Dexter reserve the right to vary all data without prior notice. No liability is accepted for any consequence of use.

### Technical Specifications

#### Video content analysis

Analysis type

Alarm triggers

Configurations

Object filters

Calibration

#### Video streaming

Camera processing latency

Frame rate (fps)

Resolution

Type of stream

Video compression

#### Network

Ethernet type

Conformity

Protocols / standards

#### Data security

Crypto coprocessor (TPM)

PKI

End-to-end encryption

Encryption

Local storage encryption

Video authentication

Firmware protection

Essential Video Analytics

Any object; Object in field; Line crossing; Enter / leave field; Loitering; Follow route; Idle / removed object; Counting; Occupancy; Crowd density estimation; Condition change; Similarity search; Tampering

Silent VCA; Profiles 1 - 16

Duration; Size; Aspect ratio; Speed;

Direction; Color; Object classes (4)

Automatic self-calibrating when height is set

<200ms

60 fps

1920 x 1080; 1280 x 1024; 1280 x 720; 768 x 432; 512 x 288; 704 x 576; 640 x 480

High resolution H.26x stream; M-JPEG stream; I-frame only from stream 1

H.264 (ISO/IEC 14496-10); M-JPEG; H.265/ HEVC

10/100BASE-T

ONVIF Profile S; ONVIF Profile G; ONVIF Profile T  
IPv4; IPv6; UDP; TCP; HTTP; HTTPS; RTP/RTCP; IGMP V2/V3; ICMP; ICMPv6; RTSP; FTP; ARP; DHCP; APIPA (Auto-IP, link local address); NTP (SNTP); SNMP (V1, MIBII); SNMP (V3, MIBII); 802.1x, EAP/ TLS; DNS; DNSv6; DDNS (DynDNS.org, selfHOST.de, no-ip.com); SMTP; iSCSI; DiffServ (QoS); LLDP; SOAP; CHAP; Digest authentication

AES/CBC 256 bit

X.509 certificates

Full end-to-end with supported VMS

TLS 1.2; TLS 1.1; AES 256; AES 128; TLS 1.3

XTS-AES

MD5; SHA-1; SHA-256; Checksum

Signed firmware; Secure reboot

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### Technical Specifications

#### Storage

Internal storage  
Memory card slot

Memory card micro SD  
Micro SDHC; Micro SDXC

#### Inputs and outputs

Alarm inputs  
Alarm outputs

2  
1 relay output 5 VDC, 150 mA maximum

#### Audio

Audio input  
Audio output  
Compression and sampling rate

Line-in  
Line-out  
G.711 8 kHz; L16 16 kHz; AAC; 16kHz

#### PTZ functions

Pan speed (°/s)  
Pan range (°)  
Tilt range (°)  
Number of pre-positions  
Maximum pre-position pan speed (°/s)  
Maximum pre-position tilt speed (°/s)  
Pre-position accuracy (average) (°)

0.1°/s – 300°/s  
0° – 360° continuous  
-90° – 0°  
256  
300°/s  
200°/s  
0.10°

#### Electrical

Type of power supply  
Input voltage (VAC)  
PoE input  
Power consumption VAC (W) (typical– maximum)

VAC; PoE  
24 VAC  
PoE+ C4, Typ.: 14.0W Max.: 24W  
14 W – 24 W

#### Mechanical characteristics

Protection level (CAM/TB)  
Weight (kg)  
Material

IP68 / IP66 (IEC/EN 60529) / IP66  
Approx. 15.3kg  
Camera: Stainless Steel (AISI  
316L/1.4404), PSU dome

#### Range of temperature

-20°C ≤ Tamb ≤ +50°C

#### Optional accessories

Wall mount bracket, Pole mount bracket,  
Ceiling mount bracket,  
ExConnection Rails, ...

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# ExCam DEX5000i

## Explosion proof camera housing

### Technical Specifications

### Explosion protection

Declaration of conformity:

EN/IEC 60079-0, EN/IEC 60079-1,  
EN/IEC 60079-31

Ex- Certificates:

TUV-18-ATEX-8218X, IECEx-TUR-18.0023X,

Ex-Marking of the camera  
ATEX

Explosion protection (gas):  
Explosion protection (dust):

II 2G Ex db IIC T6 Gb  
II 2D Ex tb IIIC T80°C Db IP68

IECEX

Explosion protection (gas):  
Explosion protection (dust):

Ex db IIC T6 Gb

Ex tb IIIC T80°C Db IP68

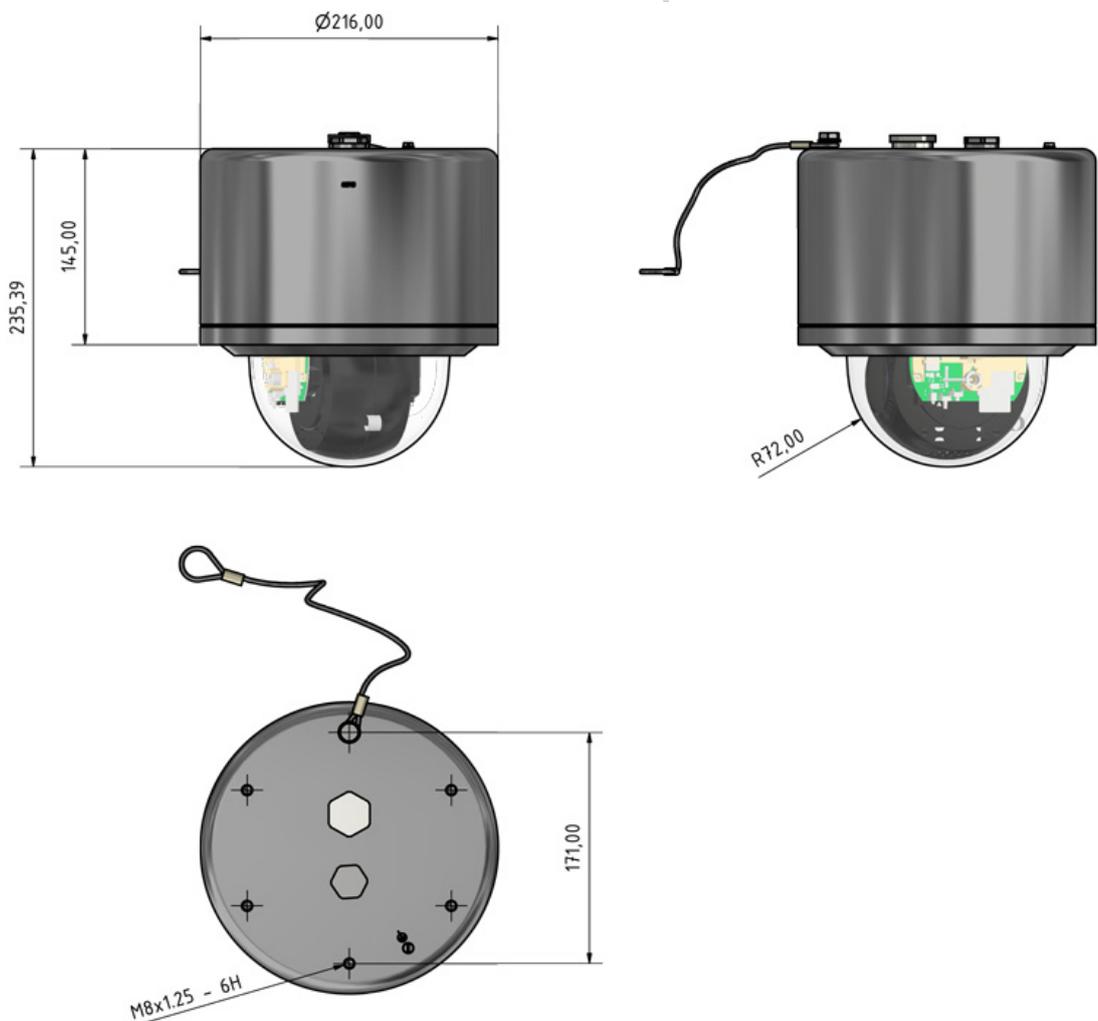
Temp Range:

-20°C ≤ Tamb ≤ +50°C

Model key:

T08-VA4.1KPS1-N.N-000.X-X

### Dimensions [mm].



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