Explosion Proof Camera
Armadex OZC-3
ATEX/IECEx Zone 2 & 22

ARMADEX

Key Benefits

- Suitable for ATEX/IECEx Zone 2/22
- Connects with your smartphone
- Special hazardous area modes
- Extremely Rugged and Lightweight
- 4x Lossless Optical Zoom, 14x Maximum Zoom

ATEX/IECEx Certified Camera

The Armadex OZC-3 is a robust digital camera built for use in hazardous areas on FPSO's, LNG Tankers, gas facilities, and chemical plants. It's certified for ATEX/IECEx Zone 2 (Gas) and Zone 22 (Dust) ensuring it meets the strict safety standards required in explosive environments.

The camera can handle drops from 2.1 meters, submersion in water (IP54) without damage. In addition to that, the camera is crushproof up to 220lbf (100kgf), freeze-proof to -10°C, and features a time-lapse function for comprehensive monitoring. At only 249 grams, including its battery and optional SD Card, the OZC-3 is lightweight yet tough. The camera can take around 340 pictures on a full charge.

Its Wide Angle Optical Zoom Lens ensures clear and stable images at every zoom level, even up to a proximity of just 1 centimeter from an object, making it perfect for capturing detailed shots of small or intricate items like microchips. Moreover, it boasts 4x Lossless Optical Zoom with a 14x Maximum Zoom, offering even greater detail.
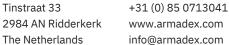
The Armadex OZC-3 performs exceptionally well in low light, thanks to its advanced imaging software and LED flash. New features like GPS for pinpointing location, sensors for checking temperature and elevation, and an anti-fog lens ensure the camera operates well in all conditions.

Explosion Safety Specifications ATEX and IECEx

ATEX Zones	2 (Gas) and 22 (Dust)
EU Directive	2014/34/EU (ATEX114)
ATEX Marking Gas	II 3G Ex ic IIC T4 Gc
ATEX Marking Dust	II 3D Ex ic IIIB T135ºC Dc
IECEx Certificate	IECEx OBAC 25.0008X
IECEx Marking Gas	Ex ic IIC T4 Gc
IECEx Marking Dust	Ex ic IIIB T135°C Dc
Applied standards	EN 60079-0:2018 EN 60079-11:2012
Applied standards IECEx	EN IEC 60079-0:2017 EN 60079-11:2011

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Full ATEX/IECEx Camera Specifications

These are the specifications of the OEM OM System Tough TG-7 camera. Please note that the Armadex OZC-3 comes without the Xenon Flash, however the built-in LED light is fully operational.

Feature	Description
Image Sensor	12 MP - 1/2.3" BSI CMOS
Processor	TruePic VIII
LENSES	25-100mm (35mm equiv.) - 4x Optical Zoom F2.0 (W) - F4.9 (T)
Macro Capability	Super macro: less than f=5.4mm, from 0.1m to 0.3m / above 5.4mm, from 0.01m to 0.3m / Microscope: 0.01m - 0.30m
One Push Tele-converter	x2 (P, A, Movie mode), x2/x4 (Microscope mode)
Image Stabilization	Sensor Shift Image Stabilization
Monitor	3.0", approx. 1,037k dots (3:2)
ISO	100 - 12,800
Shutter Speed	1/2 - 1/2000 sec. (A mode: up to 4 sec.)
Still Photo Recording	JPEG, RAW (12-bit lossless compression), JPEG+RAW [RAW] 4000 x 3000 [JPEG] 4000 x 3000 ~ 1280 x 960
Sequential Shooting	[Sequential shooting H]: approx. 20 fps with selectable 10/20 fps
	[Sequential shooting L]: approx. 5 fps
	[Pro Capture]: approx. 10 fps*Electronic Shutter
Interval Shooting	*Creating Time-lapse movie is possible with interval shooting up to 299 frames*Time priority, Frame priority selectable*Exposure smoothing is available
Video	3840×2160 (4K) 30p, 25p / IPB (approx. 102Mbps)1920 x 1080 (FHD) / 60p, 50p, 30p, 25p / IPB (approx. 52Mbps, approx. 30Mbps, approx. 18Mbps) 1280 x 720 (HD) / 30p, 25p / IPB (approx. 26Mbps, approx. 14Mbps, approx. 10Mbps)*Frame rates may drop when particular Art Filters and Movie Effects are used.

Feature	Description
Tough Capabilities	Waterproof to depths of 50 ft / 15 m Freezproof to 14°F / -10°C Crushproof to 220 lbf / 100 kgf Shockproof from 7 ft / 2.1 m Anti-fog dual pane lens cover glass
GPS / Field Sensor System	GPS (GLONASS, Galileo, QZSS), compass, manometer, temperature sensor, acceleration sensor
Creative Features	Live Composite, Art Filters, HDR, Underwater Modes, Macro Modes, Construction Mode
Connectivity	USB Type-C Micro HDMI (type D) Built-in Wi-Fi (IEEE 802.11b/g/n) Built-in Bluetooth (Version 4.2 Bluetooth Low Energy)
Power	LI-92B Li-ion battery
Dimensions	113.9 mm (W) x 65.8 mm (H) x 32.7 mm (D)4.48 in (W) x 2.59 in (H) x 1.28 in (D)
Weight	Approx. 249 g (with battery and memory card, based on CIPA standards) (0.55 lb / 8.78 oz)

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Compatibility table for SD Memory Cards

Please note: SD Memory Card is mandatory to operate the camera.

Company / Series name	Capacity
SanDisk Extreme Pro SDXC UHS-I Card	256GB, 512GB, 1TB
SanDisk Extreme Pro SDHC/SDXC UHS-II Card (*1)	32GB, 64GB, 128GB, 256GB
SanDisk Extreme PLUS SDHC/SDXC UHS-I Card	32GB, 64GB, 128GB, 256GB
KIOXIA EXCERIA PRO SDXC UHS-II Memory Card (*1)	64GB, 128GB, 256GB
KIOXIA EXCERIA PLUS SDHC/SDXC UHS-I Memory Card	32GB, 64GB, 128GB, 256GB, 512GB, 1TB

(*1)
The card slot supports UHS-I mode.
The camera will still operate at UHS-I speeds when a UHS-II card is inserted.
From 6 August 2024, a SanDisk SDXC Extreme Pro 128GB 200mb/s, is included when purchasing an Armadex Ex-M OZC 3 camera.

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Optimized Features for Hazardous Area Operations

The OZC-3 is equipped with features and modes tailored for hazardous environments:

- Data and Timestamp: Simplifies record-keeping with easy logging.
- Construction Mode:
  - Removing dust particles from images.
  - Automatically adjusting brightness in dark areas for clarity.
  - Adapting to outdoor lighting, such as minimizing shadows in direct sunlight.
- Slow Shutter: Allows long exposure times to capture detailed images in low-light settings.
- Document Mode (Label Capture): Ensures legible captures of labels, facilitating digital reporting and analysis.
- Macro Mode: Provides extreme close-up detail from just 1 cm away, ideal for examining cracks and damage.
- Environmental Logging: Records location, ambient temperature, and pressure readings with a manometer.
- OI.Share: Enables seamless connection to a hazardous area smartphone for immediate image viewing and transfer.

Construction Mode Off

Construction Mode On

Construction Mode Off

Construction Mode On

Slow Shutter Mode Off

Slow Shutter Mode On

Document Mode

Macro mode

Panorama mode

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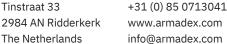
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