

Explosion Proof Camera

Armadex OZC-3

ATEX/IECEX Zone 2 & 22



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 T135°C Dc
IECEX Certificate	<u>IECEX OBAC 25.0008X</u>
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	3840x2160 (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



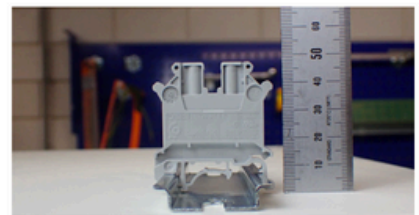
Slow Shutter Mode Off



Slow Shutter Mode On



Document Mode



Macro mode



Panorama mode



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IECEX Certificate of Conformity
INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres
for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX OBAC 25.0008X** Page 1 of 3 Certificate history:
Status: **Current** Issue No: 0
Date of Issue: **2025-08-11**
Applicant: **Armadex Explosion Protection B.V.**
Troststraat 33,
Ridderkerk, 2284 AN,
The Netherlands
Equipment: **Digital camera type Armadex OZC-3**
Optional accessory:
Type of Protection: **Intrinsic safety "i"**
Marking: **Ex ic IIC T4 Gc**
Ex ic IIB T135°C Dc

Approved for issue on behalf of the IECEx
Certification Body: **Piotr Tarnawski**
Position: **Head of Certification Body**
Signature: (for printed version)
Date: (for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:
Osrodek Badan, Atestacji i Certyfikacji OBAC Sp. z o.o.
Lubieszka 21
44-121 Gliwice
Poland

OBAC
Atestacji i Certyfikacji Sp. z o.o.
ul. Łubędzka 21
CERTIFICATE
Intended for use in potentially explosive atmospheres, pursuant to the Council of 26 February 2014.
ATEX 0069X, Issue 0
Type Armadex OZC-3
Explosion Protection B.V.
284 AN, Ridderkerk, Netherlands
Any acceptable variation thereto is specified in the herein referred to.
C Sp. z o.o. (The Institute for Research and Certification component or protective system has been found to comply with the requirements relating to the design and construction of equipment, use in potentially explosive atmospheres given in Annex II of the agreed technical documentation are recorded in the technical file.
Conformity Requirements has been assured by compliance with:
EN 60079-0:2018
EN 60079-1:2012
number, it indicates that the product concerned is subject to the requirements and tests of the specified equipment according to the ATEX Directive to further requirements of the Directive relating to its equipment.
The protective system must include the following:
II 3G Ex ic IIC T4 Gc
II 3D Ex ic IIB T135°C Dc
Head of Certification Body
Piotr Tarnawski M. Com.
Gliwice, 12 August 2025.
Piotr Tarnawski M. Com.

ARMADEX
of Conformity
EN ISO/IEC 17050-1:2010
Camera with Optical Zoom
Protection B.V.
Troststraat 33,
Ridderkerk, The Netherlands
www.armadex.com
sole responsibility of the manufacturer.
Camera with 4 x Optical Zoom
Rechargeable battery 3.6VDC, rated current max. 2A
II 3D Ex ic IIB T135°C Dc
conformity with the relevant EU harmonization
Protective Systems Intended for Use in Potentially Explosive Atmospheres
Referenced or references to the other technical specifications
EN 60079-0:2018
EN 60079-1:2012
Part 0: Equipment - General requirements
Part 11: Equipment protection by intrinsic safety "i"
Issued by OSRODEK BADAN, ATESTACJI I CERTYFIKACJI
resulting in Type Examination Certificate:
accompanying user manual of the equipment
THE MEANINGS OF THE LAW CONCERNING PRODUCT LIABILITY, THE USER MUST BE OBSERVED. THE APPARATUS SHALL ONLY BE OPERATED
Protection B.V.
The Netherlands
MSc. of Engineering
Signed for and on behalf of: Armadex Explosion Protection Ltd.
Place of issue: Aberdeen, UK
Date of issue: 10-09-2025
Name: G. A. van Tienhoven, MSc. of Engineering
Function: Director, IECEx Certified Person
Signature:



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