

Explosion Proof Camera

Armadex Ex-M OZC

ATEX Zone 2 Certified



Equipment for Hazardous Areas

Key Benefits

- Suitable for ATEX Zone 2
- Tough, Lightweight Camera Body
- 5X Optical Zoom Lens
- Optical Image Stabilization (OIS)
- Remote Camera Operating
- Splash-proof housing (IP56)

ATEX Marking

Ex II 3G Ex h ic IIC T4 Gc



ATEX Certified Camera

The ARMADEx Ex-M OZC is the only explosion proof camera that is equipped with a 5x optical zoom function. The ATEX Camera is suitable for use in ATEX Zone 2 (Gas). The compact yet rugged camera body is shockproof against drops up to 1.8m, waterproof up to 25m, freezeproof up to -10 degrees Celsius and dustproof.

Only 207 grams including battery and housing suitable for rough outdoor environments. Crystal clear pictures due to intelligent Optical Zoom Lens. No shaky images and videos thanks to OIS hardware solution. On a fully charged battery, an estimated 240 still images may be taken on auto mode. The smart function of the explosion proof camera can directly share pictures to phones, laptops, tablets, and desktops using Bluetooth. With the geotagging function, locations are automatically added to pictures, also adjusting the time zone. When using the FUJIFILM app, the camera may be operated remotely. Very useful when equipment needs to be photographed over time. Workers may also use this function when they cannot operate the camera, in tight spots for example.

The ATEX Camera is engineered and manufactured in-house by our experts, as is the case for all our ATEX Equipment. Please note that due to ATEX Regulations, the flash is disabled.

Explosion Safety Specifications (ATEX)

EU Directive	2014/34/EU (ATEX114)
ATEX marking gas	II 3G Ex h ic IIC T4 Gc
ATEX Zone	2 (Category 3G)
Applied standards	EN 60079-0:2012 +A11:2013, EN 60079-11:2012, EN ISO 80079-36:2012

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Full specifications ARMADEX Ex-M OZC

These are the specifications of the OEM Fujifilm XP140 product. Please note that the ARMADEX Ex-M OZC comes without flash functionality and has a splash proof housing (IP56)

Model name		ARMADEX Ex-M OZC
Number of effective pixels		16.4 million pixels
Image sensor		1/2.3-inch CMOS with primary color filter
Storage media		Internal memory (approx. 90MB) SD / SDHC / SDXC memory card
File format	still image	JPEG (Exif Ver 2.3*2) (Design rule for Camera File system compliant / DPOF-compatible)
	movie	Movie File Format: MOV Movie Video Compression: H.264 Audio: Linear PCM Monaural
Battery life for still images		Approx. 240 frames (AUTO mode)
Number of recorded pixels		L : [4:3] 4608×3456 [3:2] 4608×3072 [16:9] 4608×2592 [1:1] 3456×3456 M: [4:3] 3264×2448: [3:2] 3264×2176 [16:9] 3264×1840 [1:1] 2432×2432 S : [4:3] 2048×1536 [3:2] 2304×1536 [16:9] 1920×1080 [1:1] 1728×1728
Lens	name	Fujinon 5 x optical zoom lens
	focal length	f=5.0mm–25.0mm, equivalent to 28mm–140mm on a 35mm format
	full-aperture	F3.9 (Wide)–F4.9 (Telephoto)
	constitution	13 elements in 11 groups (includes 4 aspherical elements)

Digital zoom	Intelligent digital zoom: approx. 2× (up to approx. 10×, with 5× optical zoom)
Aperture	F3.9 / F6.2 (Wide) F4.9 / F8 (Telephoto)
Focus distance (from lens surface)	Wide: Approx. 9cm to infinity / 3.5in to infinity Telephoto: Approx. 1.0m to infinity / 3.2 ft to infinity
Sensitivity	AUTO / AUTO (400) / AUTO (800) / AUTO (1600) Equivalent to ISO 100 / 200 / 400 / 800 / 1600 / 3200 / 6400 / 12800
Exposure control	TTL 256-zone metering
Exposure mode	Programmed AE
Shooting modes	SR Auto, Program AE, Multiple Exposure, Portrait, Portrait Enhancer, Landscape, Advanced Filter, Panorama, Sport, Night, Night (Tripod), Fireworks, Sunset, Snow, Beach, Underwater, Party, Flower, Text, CALS
Image Stabilizer	CMOS shift type
Face / Eye detection	Yes
Exposure compensation	-2.0EV–+2.0EV 1/3EV step
Shutter speed	Auto mode: 1/4sec. to 1/2000sec. Panorama: 1/60sec. to 1/2000sec. Night (Tripod): 4sec. to 1/2000sec. Fireworks: 4sec. to 1/2sec.
Flash	Disabled due to ATEX Regulations
LCD monitor	3.0-inch, approx. 920K-dot, TFT color LCD monitor, approx. 100% coverage



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Movie recording	Standards	4K: 3840×2160 (15P) Full HD: 1920×1080 (59.94P / 50P / 24P / 23.98P) Full HD (Square): 1080×1080 (59.94P / 50P / 24P / 23.98P) HD: 1280×720 (59.94P / 50P / 24P / 23.98P) HD (Square): 720×720 (59.94P / 50P / 24P / 23.98P) HD (High Speed Movie): 1280×720 1.6 times slow motion (record 100P, playback 59.94P) 2 times slow motion (record 100P, playback 50P) 3.3 times slow motion (record 100P, playback 29.97P) 4 times slow motion (record 100P, playback 25P) *Use a SD card with UHS Speed Class "3" or higher.
	Access Mode	Infrastructure
Wireless Transmitter	Standards	IEEE 802.11b/g/n (standard wireless protocol)

Blue-tooth®	Standards	Bluetooth Ver 4.1 (Bluetooth low energy)
	Operating Frequency	2402–2480MHz (Center frequency)
Wireless function		Smartphone sync. Setting (Location setting / Time setting) / Wireless communication (Image transfer) / View & Obtain Images / Remote camera shooting / PC Autosave / instax Printer Print/ Pairing registration / Delete pairing registration / Bluetooth ON/OFF setting / Auto image transfer
Power supply		Li-ion battery NP-45S (included)
Dimensions		109.6mm (W) × 71.0mm (H) × 27.8mm (D) / 4.3in. (W) × 2.7in. (H) × 1.0in. (D) *excluding projections
Weight		Weight approx.207.4g / 7.3oz. (including battery and memory card) approx.190.6g / 6.7oz. (excluding battery and memory card)
Accessories included		Li-ion battery NP-45S, AC Power adapter, USB cable, Hand strap, User Manual

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EU Declaration of Conformity

ATEX DIRECTIVE 2014/34/EU



No. EX-M21ATEX2249X.EU

The product:

Model: Zone 2 Explosion Proof Camera with optical zoom
Type: EX-M OZC
Consisting of: Camera PCB, optical zoom motor, lens actuator and battery
Supply: Rechargeable Battery 3.7 VDC, max.100 mA,

Marking affixed: II 3G Ex h ic IIC T4 Gc

The manufacturer:

Ex-Machinery Explosion Proof Equipment B.V., Tinststraat 33, 2984 AN, Ridderkerk, The Netherlands

This declaration of conformity is issued under the sole responsibility of the manufacturer

The object of the declaration described above is in conformity with the relevant Union harmonization legislation:

ATEX DIRECTIVE 2014/34/EU: "Concerning equipment and protective systems intended for use in potentially explosive atmospheres"

References to the relevant harmonized standards:

The following harmonized standards are applied in relation to which conformity is declared:

EN 60079-0:2012 + A11:2013 EN 60079-11:2012 EN ISO 80079-36:2016

Additional information considered relevant to this declaration:

(X) Specific conditions of use are specified in the accompanying user manual of the product

Signed for and on behalf of

Ex-Machinery,

G.A. van Tienhoven M.Sc. Engineering
Managing Director
www.ex-machinery.com

Ridderkerk, 8-6-2021

THIS DECLARATION IS NOT A WARRANTY OF ATTRIBUTES WITHIN THE MEANING OF THE LAW CONCERNING PRODUCT LIABILITY. THE SAFETY INSTRUCTIONS GIVEN IN THE INSTALLATION MANUAL MUST BE OBSERVED. THE APPARATUS SHALL ONLY BE OPERATED UNDER THE CONDITIONS AS DESCRIBED IN THE USER MANUAL

