Explosion-safe Time lapse camera AR-027

Up to 6 months of uninterrupted use

Features

- ATEX-certified
- Suitable for use in locations with gas and dust, zone 2 and 22
- 1,3 mega pixel
- Focal length 35 mm
- Video in MP4 format, 1920 x 1080 px
- 16 GB SD data card included
- Ingress protection level IP67
- Coated aluminum housing
- Wall mount bracket and pole support optional

II 3 G Ex nR IIC T6 Gc
II 3 D Ex tc IIIC T80°C Dc

Description

With a timelapse camera, activities can be recorded over a longer period of time. Think of monitoring a construction project, larger infrastructural works or the construction of ships. With the development of an explosion-safe variant, these options are now also available for explosion-hazardous areas classified as zone 2 and zone 22.

To create an explosion-safe solution, a “restricted breathing” housing according to EN 60079-15:2010 was used. This housing could be used because the camera does not produce sparks or heat in normal operation. To increase the gas tightness, the impact-resistant polycarbonate window was fixed in the housing and the tap holes for the cable glands were hermetically sealed with a blind plug and synthetic resin. The housing is also provided with an extra casing (sun shroud) to reduce heating of the housing caused by direct sunlight. With this, the “breathing” of the housing was reduced as much as possible.

To make the camera usable for a longer period, it has been connected to a high-capacity pack of non-chargeable batteries. Dependent on the camera settings, recordings up to 6 months are possible.

The Artidor time lapse camera is certified in accordance with European Directive 2014/34/EU (ATEX 114) for use in gas or dust hazardous areas and is CE marked.

nen standards committee member

ISO 9001

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Technical data

Explosion safety:	II 3 G Ex nR IIC T6 Gc, II 3 D Ex tc IIIC T80°C Dc
Applicable EU directives:	2014/34/EU (ATEX 114)
CE conformity:	EN 60079-0:2018, EN 60079-15:2010 and EN 60079-31:2014
LCD display:	1,4” IPS LCD
Resolution:	1,3 mega pixel
Lens opening	118°
Focal length	19 mm (comparable to 35 mm format)
Diaphragm:	f/2.0
Video:	MP4 format, 1920 x 1080 px
Recording interval:	1 second up to 24 hours
Memory card:	16 GB SD card for storage of up to 5.000 photo’s in highest quality included (up to 128 GB possible)
Supply voltage:	6 V DC
Time of operation:	6 months (day light setting, 1 minute interval, 16 hours / day)
Material:	Aluminum housing, silicone seals
Ingress protection level:	IP67 according to EN 60529
Mounting:	Four mounting 1/4“ holes in line, 51 and 74 mm apart
Ambient temperature:	+0 °C to +45 °C
Dimensions housing:	430 x 164 x 120 mm (excl. mounting bracket)
Weight:	2,5 kg

Ordering codes

Type number	Details
AR-027/001	Time laps camera incl. 16 GB SD memory card
AR-027/002	Wall mount bracket for outdoor use, 30 cm
AR-027/003	Pole mount adaptor for AR-027/002

This document is subject to change without notice.