

xWatch® Explosion-Proof Camera X7050



DESCRIPTION

The xWatch® Surveillance Camera produces a high resolution color video picture using a camera module that is mounted inside an explosion-proof NEMA 4X rated housing. The device's explosion-proof rating makes it suitable for Class I, Div. 1, Groups B, C and D locations. xWatch can be used alone or in combination with fire and gas detectors in any application that requires CCTV surveillance capabilities.

The xWatch can be used in any of three configurations:

- xWatch can be used as a stand alone device to perform typical CCTV functions.
- An xWatch camera module can be retrofitted in place of the UV tube module in an existing C7050 Flame Detector to provide basic visual information.
- xWatch can be ordered from the factory as a combined unit with any X-Series flame detector. With this arrangement, the camera views the same protected area as the detector.

In the event of a fire or gas alarm, the operator can immediately view the monitored area to determine whether personnel are present and safe. An accurate evaluation of the hazard's size, nature, location and severity can be determined quickly and safely.

The use of a digital video recorder (DVR) to capture the event provides a permanent record for future analysis of what occurred.

HIGHLIGHTS

xWatch Camera

- ▲ Low cost surveillance of any flame, gas, or toxic hazard location
- ▲ Easy connection to a video switcher using twisted pair wiring
- ▲ Use existing wiring if suitable
- ▲ Easy retrofit into standard C7050 housing
- ▲ Simple no tool exchange of the tube module to camera
- ▲ Compact housing for easy installation in small spaces

xWatch / Flame Detector Combination

- ▲ Combines high resolution color video surveillance and flame detection
- ▲ Views the same 90 degree cone of vision as the flame detector
- ▲ Combine with any X-Series flame detector
- ▲ Superior false alarm rejection
- ▲ Real verification of detection capability with automatic and magnetic optical integrity
- ▲ Combine with detector system upgrades in remaining unused detector locations
- ▲ Compatible with LON based detectors
- ▲ Ideally suited for remote and/or inaccessible areas
- ▲ Informed, appropriate response to incidents
- ▲ Pre- and post-event analysis of video recording

SPECIFICATIONS

Operating Temperature	-20°C to +70°C (-4°F to +158°F)
Hazardous Location Rating	-40°C to +75°C (-40°F to +167°F)
Storage Temperature	-30°C to +80°C (-22°F to +176°F)
Relative Humidity	5 to 95%, non-condensing
Ingress Protection	NEMA/Type 4X
Sensor	Color low light CCD
Resolution	NTSC: 768 by 494 pixels, 570 lines of resolution PAL: 752 by 582 pixels, 570 lines of resolution
Video Output	NTSC or PAL two wire twisted pair
Shutter	Electronic shutter, 1/60 – 1/100,000 second
Operating Voltage	24 Vdc nominal, 18 to 30 Vdc
Power Consumption	2.8 watts
Field of View	90 degrees
User Interface	Conventional off-the-shelf video switchers and controllers can be used for the interface.
Housing Material	Aluminum or Stainless Steel (316/CF8M Cast)
Shipping Weight (Approximate)	Aluminum: 1.2 lbs. (0.6 kg) Stainless Steel: 2.2 lbs. (1.0 kg)

Certifications

FM/CSA:



Class I, Div. 1, Groups B, C and D (T5).
Class II/III, Div. 1, Groups E, F, and G (T5).
NEMA/Type 4X.

ATEX:



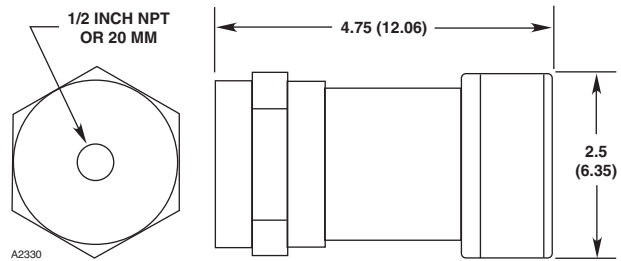
CE 0539 II 2 G
Ex d IIC T5 IP66
FM07ATEX0053
Ta = -40°C to +75°C.

IECEX:

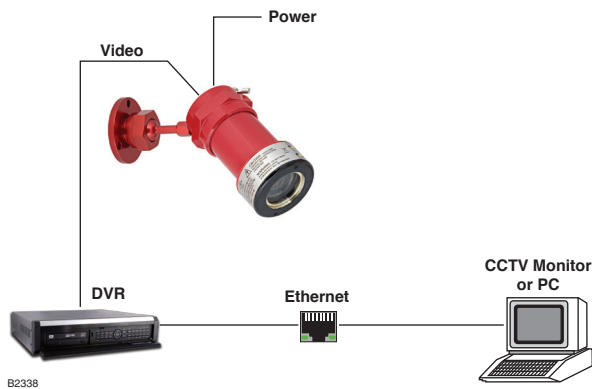


Certificate of Conformity
IECEX FMG 07.0019
Ex d IIC T5 IP66
Ta = -40°C to +75°C.

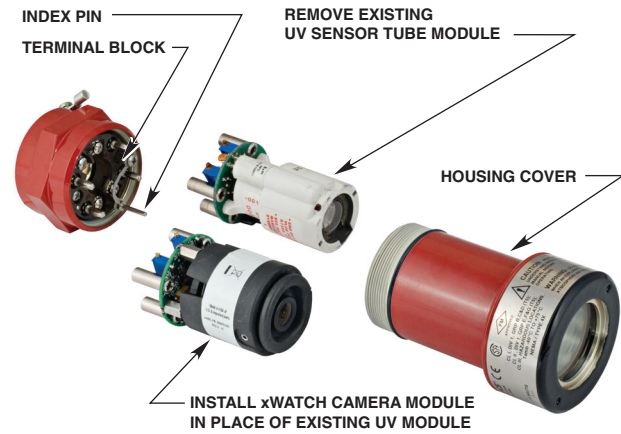
Dimensions



xWatch Dimensions in Inches (Centimeters)



System Block Diagram



NOTE: REQUIRES REWIRING TO VIDEO EQUIPMENT.
Converting C7050 to xWatch

Specifications subject to change without notice.

All trademarks are the property of their respective owners.
© 2015 Detector Electronics Corporation. All rights reserved.



Corporate Office
6901 West 110th Street | Minneapolis, MN 55438 USA
Operator: 952.941.5665 or 800.468.3244
Customer Service: 952.946.6491 or 800.765.3473
www.det-tronics.com | Email: det-tronics@det-tronics.com