

**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 utilization of a digital video recorder (DVR) captures the video image of an incident which can be analyzed for what happened before, during, and after the event.

**FEATURES AND BENEFITS****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

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

### Certifications

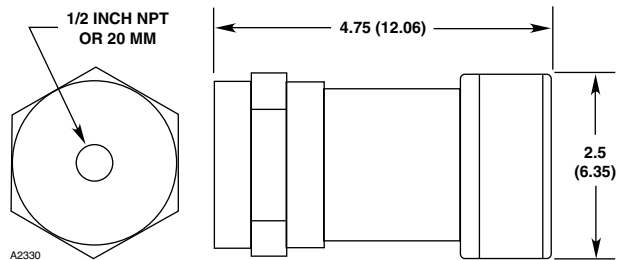


**FM/CSA:** Class I, Div. 1, Groups B, C and D (T5).  
Class II/III, Div. 1, Groups E, F, and G (T5).  
NEMA/Type 4X.

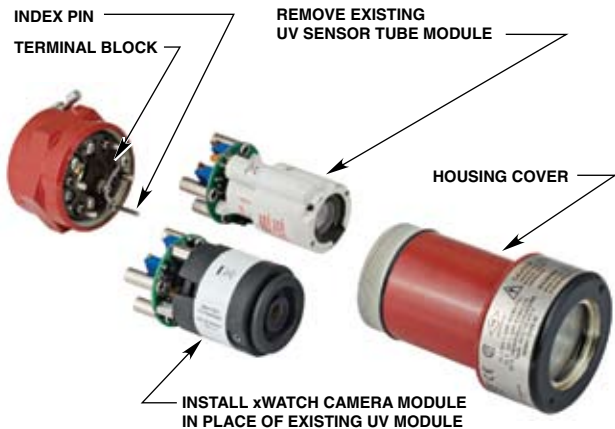
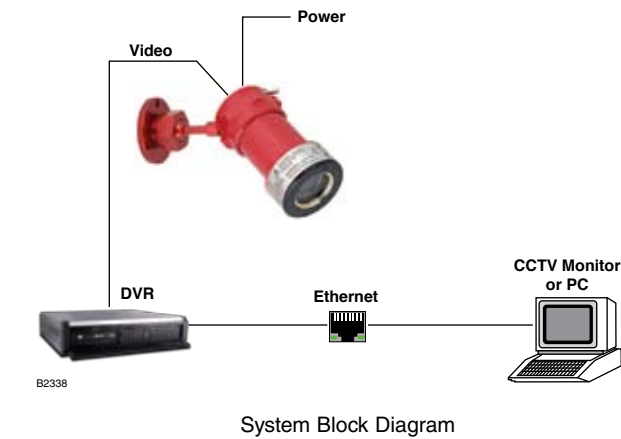
**ATEX:** CE 0539 II 2 G  
Ex d IIC T5 IP66  
FM07ATEX0053  
Ta = -40°C to +75°C.

**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)



**NOTE: REQUIRES REWIRING TO VIDEO EQUIPMENT.**

Converting C7050 to xWatch

Specifications subject to change without notice.

Det-Tronics the DET-TRONICS logo, and xWatch are registered trademarks or trademarks of Detector Electronics Corporation in the United States, other countries, or both. Other company, product, or service names may be trademarks or service marks of others.

©Copyright Detector Electronics Corporation 2009. All rights reserved.



### Detector Electronics Corporation

6901 West 110th Street • Minneapolis, Minnesota 55438 USA

Operator: (952) 941-5665 or (800) 765-FIRE

Customer Service: (952) 946-6491 • Fax (952) 829-8750

<http://www.det-tronics.com> • E-mail: [det-tronics@det-tronics.com](mailto:det-tronics@det-tronics.com)