

xWatch® Explosion-Proof Camera with X-Series Flame Detectors



xWatch with X3301

DESCRIPTION

The xWatch® Surveillance Camera can be attached directly to any of the Det-Tronics X-Series line of flame detectors through a factory installed integral connection adapter. With this arrangement, the camera views the same protected area as the detector.

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.

The xWatch and X-Series combination can be used in any fire and gas system application that requires CCTV surveillance capabilities.

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 / Flame Detector Combination

- Combine with any X-Series flame detector
- Provides high resolution color video surveillance and flame detection, all in real time
- Views the same 90 degree cone of vision as the 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
- Standard or custom DVR options available
- System integrable for alarm and detection recording

SPECIFICATIONS

xWatch Specifications

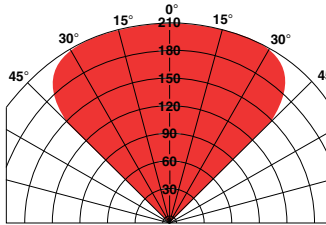
Operating Temperature	-20°C to +70°C
Storage Temperature	-30°C to +80°C
Relative Humidity	5 to 95%, non-condensing
Ingress Protection	NEMA/Type 4X
Sensor	Color low light CCD, 0.3 lux
Resolution	NTSC: 768 by 494 pixels, 570 lines of resolution PAL: 752 by 582 pixels, 570 lines of resolution
Video Output	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 (camera only)
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 316 Stainless Steel
Shipping Weight	Aluminum: 7 pounds (3.2 kg) (Camera/Detector Combo) Stainless Steel: 12 pounds (5.5 kg)
Flame Performance	Refer to the Instruction Manual for the specific detector model:

Detector	Instruction Manual
X3301	95-8527
X3302	95-8576
X5200	95-8546
X2200	95-8549
X9800	95-8554

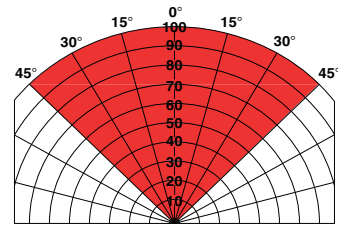
Certifications FM/CSA: Class I, Div. 1, Groups B, C and D (T5).
Class II, Div. 1, Groups E, F, and G (T5).
NEMA/Type 4X.

ATEX: CE 0539 II 2 G
(Pending)

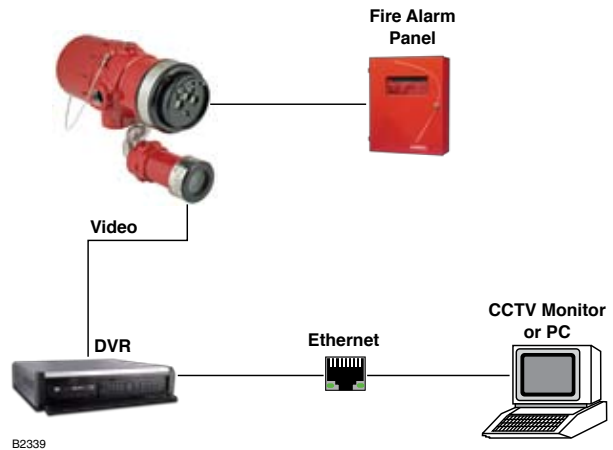
Field of View xWatch provides a 90 degree field of view to cover the same area as the X-Series Flame Detector.



Field of View of X3301 at Indicated Distance in Feet for n-Heptane



Field of View of X3301 at Indicated Distance in Feet for Methane



System Block Diagram

Specifications subject to change without notice.

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