

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



xWatch with X3301

DESCRIPTION

The xWatch® Explosion-Proof Camera is available as a factory installed option with any of the Det-Tronics X-Series line of flame detectors. With this arrangement, the camera and detector share the same field of view. This option is available with X3301 and X3302 Multispectrum IR, X5200 UVIR, X2200 UV and X9800 IR Flame Detectors.

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.

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 / 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
- ▲ System integrable for alarm and detection 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) (-55°C to +75°C CSA)
Storage Temperature	-30°C to +80°C
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 (camera only)
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 (Camera/Detector Combo)	Aluminum: 7 pounds (3.2 kg) Stainless Steel: 12 pounds (5.5 kg)
Performance and Power Consumption (Detector only)	Refer to Instruction Manual for specific detector model:

Detector	Instruction Manual
X3301	95-8527 or 95-8704
X3302	95-8576
X5200	95-8546
X2200	95-8549
X9800	95-8554

Certification

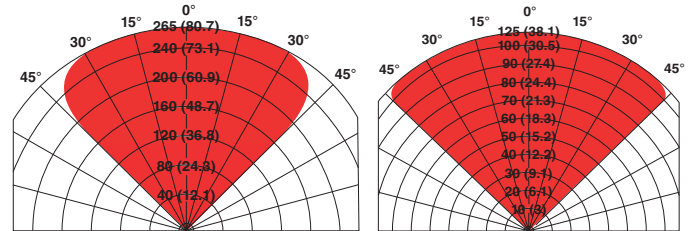


Class I, Div. 1, Groups B, C and D (T5).
Class II/III, Div. 1, Groups E, F, and G (T5).
NEMA/Type 4X.

Note: X3301 (with camera) Temperature Class is T4A.

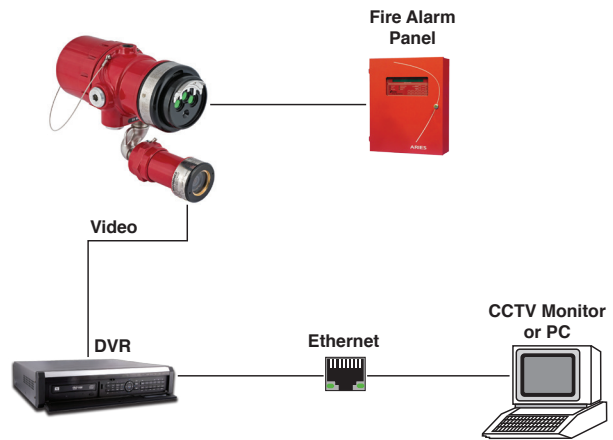
Field of View

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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Corporate Office
6901 West 110th Street | Minneapolis, MN 55438 USA
Phone: 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