

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 detector 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.

Using video recording equipment, the video image of the incident can provide information for analyzing 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
- 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

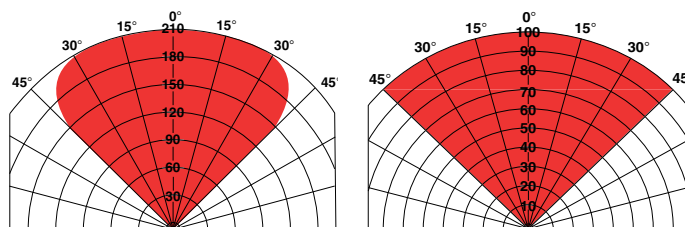
SPECIFICATIONS

xWatch Specifications

Operating Temperature	-20°C to +70°C												
Hazardous Location Rating	-40°C to +75°C (-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)												
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 Combination) Stainless Steel: 12 pounds (5.5 kg)												
Flame Performance	Refer to the Instruction Manual for the specific detector model:												
	<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;">Detector</th> <th style="text-align: left;">Instruction Manual</th> </tr> </thead> <tbody> <tr> <td>X3301</td> <td>95-8527</td> </tr> <tr> <td>X3302</td> <td>95-8576</td> </tr> <tr> <td>X5200</td> <td>95-8546</td> </tr> <tr> <td>X2200</td> <td>95-8549</td> </tr> <tr> <td>X9800</td> <td>95-8554</td> </tr> </tbody> </table>	Detector	Instruction Manual	X3301	95-8527	X3302	95-8576	X5200	95-8546	X2200	95-8549	X9800	95-8554
Detector	Instruction Manual												
X3301	95-8527												
X3302	95-8576												
X5200	95-8546												
X2200	95-8549												
X9800	95-8554												

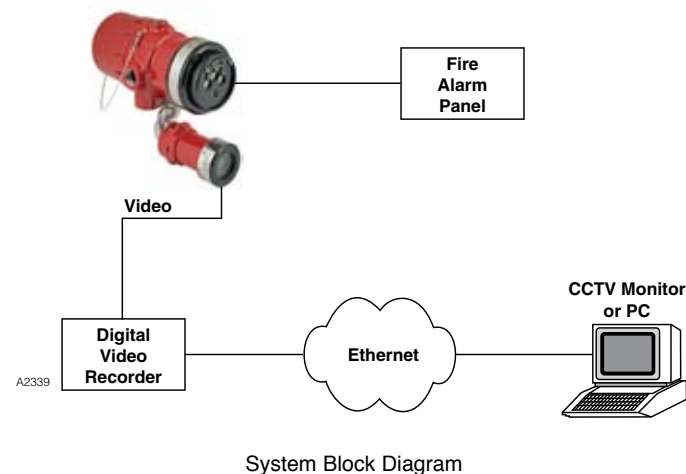
Certifications	FM/CSA: Class I, Div. 1, Groups B, C and D (T5). Class II/III, Div. 1, Groups E, F, and G (T5). NEMA/Type 4X. CENELEC: CE 0539 Ex II 2 G (Pending) EEx d IIC T4-T6 DEMKO 06 ATEX T6 (Tamb = -55°C to +50°C) T5 (Tamb = -55°C to +65°C) T4 (Tamb = -55°C to +75°C) IP66.
-----------------------	--

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



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: dettronics@dettronics.com