

**Operational Manual**  
**Fire Sprinkler Covert Camera**



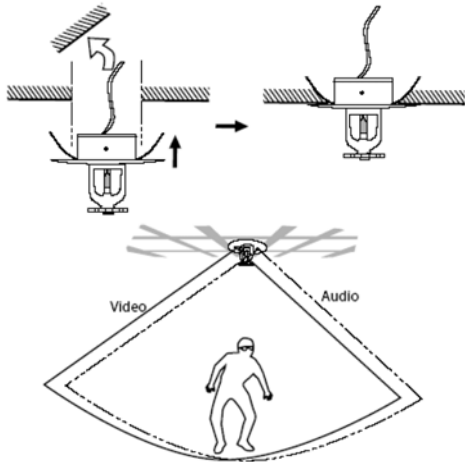
Please read the Operational Manual before attempting to use this product.

**FEATURES**

- 1/3" Sony Super HAD CCD
- 420 TV Lines
- 4.3mm Pinhole Lens
- 0.1 Lux
- 12V~18V DC

**INSTALLATION**

There is one BNC female socket for video output and one plug for power supply attached to the camera.



**PACKAGE CONTENTS**

- One (1) ESFS-N4243/ESPF-N4243P Camera with power/video cable
- One (1) Operational Manual



**LIMITED WARRANTY**

This product is covered under warranty for one year from the date of purchase. The warranty will automatically be voided if any of the following occurs:

- 1. Camera sticker is removed**  
If the camera sticker is removed, we will not be able to confirm any information regarding when and where the product was purchased. We have no other way to verify the purchase record without the serial number on the camera sticker; therefore, it should not be removed.
- 2. Camera is modified in any way**  
If the camera is scratched, damaged, or modified in a manner not described in this manual, the warranty will be voided immediately. It is the customer's responsibility to keep the camera in good condition.
- 3. Video or power cable is cut**  
Cutting or modifying of the cables will result in termination of the warranty.

**SPECIFICATIONS**

Model	ESFS-N4243	ESFS-N4243P
TV System	NTSC	PAL
Image Sensor	1/3" Sony Super HAD CCD	
DSP	Sony	
Total Pixel	512(H) x 492(V)	512(H) x 582(V)
Synchronizing System	Internal	
Resolution	420 TV Lines	
Minimum Illumination	0.1 Lux	
S/N Ratio	More than 46dB	
Auto Gain Control	Auto	
White Balance	ATW	
Back Light Compensation	Auto	
Gamma	0.45	
Electronic Shutter	1/60~1/100,000sec	1/50~1/100,000sec
Video Output	1Vp-p composite / 75 Ω	
Lens	4.3mm Pinhole Lens	
Power Supply	12V~18V DC	
Power Consumption	80mA	
Scanning Frequency	15.734 KHz (H), 59.95 Hz (V)	
D/A Bit	10 D/A bit	
Operating Temperature	-4°F ~ 140°F / -10°C ~ +60°C	

\*Specifications are subject to change without notice



**CAUTION**

- 1. Never point the camera toward the sun**  
Do not expose the lens directly to the sun or to strong light as this may damage the pick-up device.
- 2. Handle this camera with care**  
Avoid any shock or bumping of the camera. Improper handling could damage the camera.
- 3. Requires a proper operating environment**  
This camera is designed for indoor use. The allowable temperature range for operation of this camera is between -4°F ~ 140°F / -10°C ~ 60°C.
- 4. Clean the front face or lens**  
It is recommended that the lens be cleaned before lens every 3~6 months. Cleaning should be done by using a chamois, a very fine soft cloth, lens tissue, or cotton tipped applicator and rubbing alcohol to carefully remove any fingerprint or dust.
- 5. Check the power source voltage**  
The power source voltage should be within the specified range. (Camera must meet the specifications). Camera must be connected to a surge protector at all times.
- 6. Objects and liquid entry**  
Never push objects of any kind into this camera as this may touch dangerous voltage points of short out parts that could result in a fire or electric shock. Never spill any kind of liquid on the video product.
- 7. Servicing**  
Do not attempt to service this video product by yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all service to qualified servicing personnel.
- 8. Damage requiring service**  
Unplug this video product from the wall outlet and refer service to qualified servicing personnel under the following conditions:
  - a. When the power supply cord or plug is damaged.
  - b. If liquid has been spilled, or objects have fallen into the video product.
  - c. If the video product has been exposed to rain or water.
  - d. If the video product has been dropped or the cabinet has been damaged.
  - e. When the video product exhibits a distinct change in performance.
- 9. Please follow your local privacy laws and regulations when using this camera in a public setting. Seller is not responsible for any improper usage of this camera.**