

**ESFL-X480
ESFL-X480P**

Operational Manual

Motion Floodlight Color Covert Camera



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

2 By law, **110V ~ 120V** power must be installed by a licensed electrician. Conduit(s) may be required.



FEATURES

- 1/3" Hi-Res. Sony CCD
- 480 TV Lines
- 3.6mm Board Lens
- 140° PIR Motion Sensor with Wide View Design
- Halogen 300W Lighting Load Capacity (Included)
- IP55 Rating
- 110V AC ⚠️ 2

APPLICATIONS

IP55 Weatherproof housing is suitable for garage, entrance, warehouse, corridor, parking lot, garden, street, etc. where lighting and security is needed.

SPECIFICATIONS

High Resolution Color CCD Camera

Model	ESFL-X480	ESFL-X480P
Image Pick-up Device	1/3" Hi-Res. Sony Color CCD	
TV System	NTSC	PAL
Effective Picture Elements	768(H)x494(V)	752(H)x582(V)
Horizontal Resolution	480 TV Lines	
Minimum Illumination	0.2 Lux @ F2.0	
S/N Ratio	More than 48 dB	
Electronic Shutter	1/60 ~ 1/100,000 sec.	1/50 ~ 1/110,000 sec.
Gamma Characteristic	0.45	
Lens	3.6mm Board Lens / F2.0	
Gain Control	Auto	
White Balance	Auto	
Synchronous System	Negative Sync. Internal	
Video Output	1 Vp-p Composite Video / 75 Ohms	

Motion Sensor Floodlight

Voltage Requirement	USA Plug: 110V AC European & UK Plug: 220V AC Also Available
Lighting Load	Max 300W, J-Type
Detection Mode	Pyro-Sensor
Sensor Swiveling Angle	45° Vertical & Horizontal
Suitable Mounting	Wall & Ceiling Mount
Time Adjustment	4 sec. ~ 12 min., VR Adjustable
Lux Adjustment	Day ~ Night, VR Adjustable
Detection Range	16 ~ 40ft / 5 ~ 12m 140° (68°F / 20°C), VR Adjustable
Operating Temperature	-4°F ~ 104°F / -20°C ~ 40°C
Warm-up Time	30 sec.

*Specifications are subject to change without notice

LIST OF COMPONENTS

- One (1) ESFL-X480/ESFL-X480P with video/power cable
- One (1) Halogen Lamp 300W *Refer to back page for warranty
- One (1) Operational Manual

* For any returns, please include all components listed above with original packaging in **Resalable Condition**. **Absolutely No Returns** will be accepted if any component is missing/damaged.

VR ADJUSTMENT OF FLOODLIGHT



SENS: - / + Sensitivity Setting	"-"-wise ▶	Decrease detection range to Min. 5M
	"+"-wise ▶	Increase detection range to Max. 15M (based on 20°C)
LUX: ☀/☾ Timing of Lighting	"☀"-wise ▶	Standby on 24 hours
	"☾"-wise ▶	Standby at nighttime
TIME: - / + Lighting Time	"-"-wise ▶	Continually lighting in 5 seconds
	"+"-wise ▶	Continually lighting in 12 minutes

Comparison Chart

Directions (o'clock)	4 ↘	2 ↗	12 ↑	10 ↖	8 ↙
Lighting Time	12 min.	7 min.	5 min.	2 min.	5 sec.



IMPORTANT NOTE

1. Consult a licensed electrician

By law, **110V ~ 120V** power must be installed by a licensed electrician. Conduit(s) be required.

2. Installation for best results

Do not install the product in reverse or sideways to ensure the best performance of detection range and protect the product from dripping water. The motion sensor should not face the moving direction of objects. This will reduce the detection range.

3. 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.

4. Handle this camera with care

Avoid any shock or bumping of the camera. Improper handling could damage the camera. When replace a new halogen bulb, take it through a soft dry cloth, do not touch it directly by hand.

5. Requires a proper operating environment

This camera is designed for outdoor or indoor use. Install the product on a solid base and away from heat generating devices as the high temperature could cause wrong detection of the motion sensor. The allowable temperature range for operation of this camera is between -4°F ~ 104°F / -20°C ~ 40°C.

6. Clean the front face to the pick-up device

It is recommended that the pick-up device surface be cleaned before lens installation or whenever the lens is changed. Cleaning should be done by using a chamois, a very fine soft cloth, lens tissue, or cotton tipped applicator and ethanol to carefully remove any fingerprint or dust.

7. 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.

8. 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.

9. 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.

10. Damage requiring service

Unplug this video product from the wall outlet and refer service to qualified servicing personnel under the following conditions:

- When the power supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the video product.
- If the video product has been dropped or the cabinet has been damaged.
- When the video product exhibits a distinct change in performance.

11. Damage requiring service

Install bulb before powering on. Do not touch the surface of the bulb with bare hands. Handle the bulb with a soft cloth.



WARRANTY

OK-I USA Products are 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

The video cable and the power cable should not be tampered with. Cutting or modifying of the cables will result in termination of the warranty.

* The Halogen Lamp 300W is only covered under a 30-day warranty from the date of purchase.