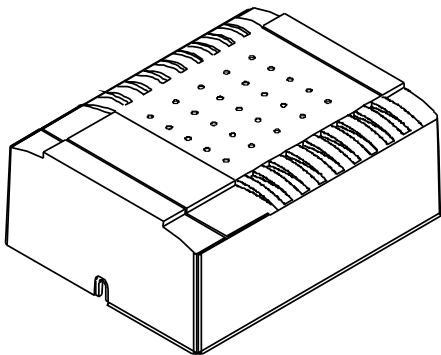


INSTRUCTION MANUAL

ACTION BOX

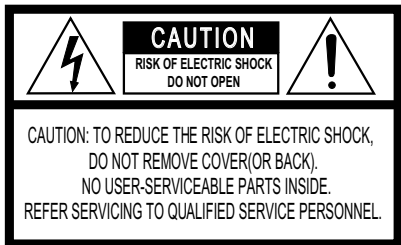


Please read this manual thoroughly before use, and keep it handy for future reference.

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. DO NOT INSERT ANY METALLIC OBJECT THROUGH THE VENTILATION GRILLS.

CAUTION



EXPLANATION OF GRAPHICAL SYMBOLS



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

PRECAUTIONS

Safety : Should any liquid or solid object fall into the cabinet, unplug the unit and have it checked by the qualified personnel before operating it any further. Unplug the unit from the wall outlet if it is not going to be used for several days or more.

To disconnect the cord, pull it out by the plug. Never pull the cord itself.

Allow adequate air circulation to prevent internal heat build-up. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes.

Installation : Do not install the unit in an extremely hot or humid place or in a place subject to excessive dust or mechanical vibration.

The unit is not designed to waterproof. Exposure to rain or water may damage the unit.

Cleaning : Clean the unit with a slightly damp soft cloth. Use a mild household detergent. Never use strong solvents such as thinner or benzene as they might damage the finish of the unit.

FCC COMPLIANCE STATEMENT


FCC INFORMATION : THIS EQUIPMENT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS A DIGITAL DEVICE, PURSUANT TO PART 15 OF THE FCC RULES. THESE LIMITS ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST HARMFUL INTERFERENCE WHEN THE EQUIPMENT IS OPERATED IN A COMMERCIAL ENVIRONMENT. THIS EQUIPMENT GENERATES, USES, AND CAN RADIATE RADIO FREQUENCY ENERGY AND IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL, MAY CAUSE HARMFUL INTERFERENCE TO RADIO COMMUNICATIONS. OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE HARMFUL INTERFERENCE IN WHICH CASE THE USER WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT HIS OWN EXPENSE.

CAUTION : CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

THIS CLASS A DIGITAL APPARATUS COMPLIES WITH CANADIAN ICES-003.

CET APPAREIL NUMÉRIQUE DE LA CLASSE A EST CONFORME À LA NORME NMB-003 DU CANADA.

IMPORTANT SAFEGUARDS

1. **READ INSTRUCTIONS** -- All the safety and operating instructions should be read before the appliance is operated.
2. **RETAIN INSTRUCTIONS** -- The safety and operating instructions should be retained for future reference.
3. **CLEANING** -- Unplug video monitor or equipment from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
4. **ATTACHMENTS** -- Do not use attachments not recommended by the video monitor or equipment manufacturer as they may result in the risk of fire, electric shock or injury to persons.
5. **WATER AND MOISTURE** -- Do not use video monitor or equipment near water -- for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, or the like.
6. **ACCESSORIES** -- Do not place video monitor or equipment on an unstable cart, stand or table. The video monitor or equipment may fall, causing serious injury to a child or adult, and serious damage to the equipment. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.
- 6A. Video monitor or equipment and cart combinations should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the equipment and cart combination to overturn. 
7. **VENTILATION** -- Slots and openings in the cabinet and the back or bottom are provided for ventilation, and to ensure reliable operation of the video monitor or equipment and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the video monitor or equipment on a bed, sofa, rug, or other similar surface. Video monitor or equipment should never be placed near or over a radiator or heat register. Video monitor or equipment receiver should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.
8. **POWER SOURCES** -- Video monitor or equipment should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your video monitor or equipment dealer or local power company. For video monitor or equipment designed to operate from battery power refer to the operating instructions.
9. **GROUNDING OR POLARIZATION** -- This video monitor may be equipped with a polarized alternating - current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

Alternate Warnings - This video monitor is equipped with a three-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

IMPORTANT SAFEGUARDS

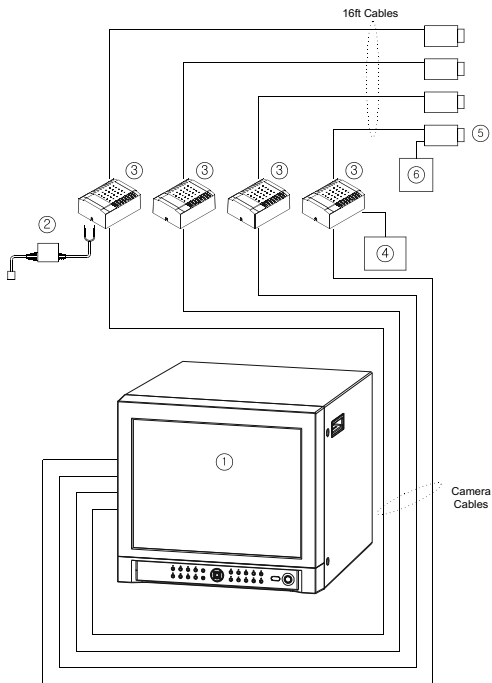
10. **POWER CORDS** -- Do not allow anything to rest on the power cord. Do not locate video monitor or equipment where the cord will be abused by persons walking on it.
11. **HEED WARNINGS** -- Follow all instructions marked on the video monitor or equipment.
12. **LIGHTNING** -- For added protection for video monitor or equipment during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the video product due to lightning and power-line surges.
13. **OVERLOADING** -- Do not overload outlets and extension cords as this can result in a risk of fire or electric shock.
14. **OBJECT AND LIQUID ENTRY** -- Never push objects of any kind into video monitor or equipment through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
15. **SERVICING** -- Do not attempt to service video monitor or equipment yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
16. **DAMAGE REQUIRING SERVICE** -- Unplug video monitor or equipment from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - A. When the power-supply cord or the plug has been damaged.
 - B. If liquid has 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 does not operate normally by following the operating instructions, adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video product to its normal operation.
 - E. If the video product has been dropped, or the cabinet damaged.
 - F. When the video product exhibits a distinct change in performance -- this indicates a need for service.
17. **REPLACEMENT PARTS** -- When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
18. **SAFETY CHECK** -- Upon completion of any service or repairs to this video product, ask the service technician to perform safety checks to determine that the video product is in proper operating condition.
19. **FIELD INSTALLATION** -- This installation should be made by a qualified service person and should conform to all local codes.
20. The socket outlet shall be installed near the equipment and shall be easily accessible.

TABLE OF CONTENTS

INTRODUCTION	7
INSTALLATION	8
RELAY OUTPUT	11
ALARM INPUT	11
TAMPER SWITCH	11
BOX DIP SWITCH	11
EXTERNAL POWER ADAPTER JACK	11
EQUIPMENT SPECIFICATIONS	

1. INTRODUCTION

The purpose of this box is to provide to activate the relay and alarm inputs to MUX monitor. This box uses with your MUX together.



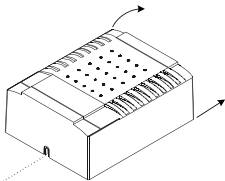
1: Observation system Monitor
3: Action Boxes
5: Camera

2: External power adapter
4: Alarm Sensor
6: Intercom Box

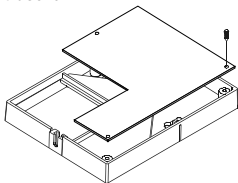
2. INSTALLATION

The installation of the Alarm Box must be in accordance with all local and national electrical and mechanical codes. Make sure all equipment is powered down until the system has been completely installed.

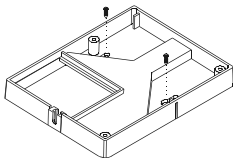
- A. Unpack the Action box from the packing material.
- B. Loosen the screw holding the cover and remove the cover.



- C. Remove the circuit board.



- D. Place the Action box in a convenient location near the camera (within reach of the 16ft cable)..
- E. Fasten the bottom plate of the box with screws.



- F. Fit the circuit board.
- G. Connect the Action Box to the camera by routing the 16ft cable between the "CAMERA" port on the Action Box to the "MONITOR" port on the camera.
- H. Connect the Action Box to the MUX Monitor by routing the camera cable between the "INPUT" port on the Action Box to the one of the eight camera inputs (CA1, CA2,..., CA8) on the back of the MUX monitor.



Caution:

Care should be taken when routing the cable from the camera to the alarm device. Try not to put unnecessary strain on the cable or connectors. Damage may result to cable if it is pulled by the connectors. Do not place the cable next to fluorescent lights; interference may result. Do not use staples to support the cable, as you may damage the cable. If the provided camera cable is not long enough, do not substitute a telephone cable. Using a telephone cable could damage the camera and/or alarm device.

- I. Route steps D through H for additional Action Boxes.
- J. Turn on the MUX Monitor after all Action Boxes accessories have been installed.

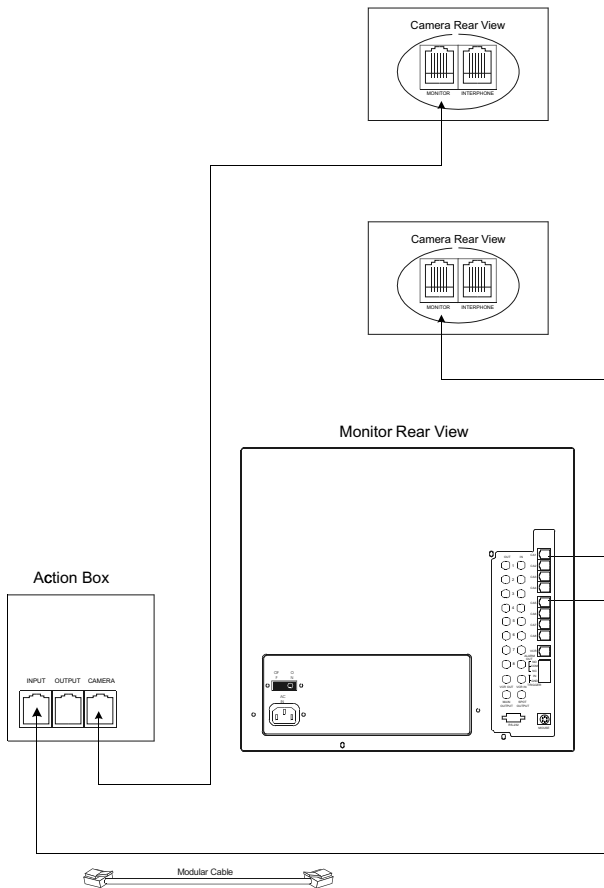
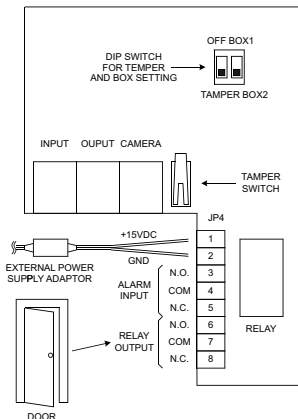


FIGURE 1. INSTALLATION

3. Relay Output

This figure shows the screw terminals to which, for example, a door-striker can be connected.



4. Alarm Input

This box provides inputs for additional alarm or switch closure devices with N.O and N.C contacts. If the N.C contacts are not used, the N.C to COM terminals must be interconnected with a jumper wire.

5. Tamper Switch

on the circuit board a tamper switch secures the box. When opening the box this switch triggers an alarm on the MUX monitor. To suppress a continuous alarm message while the box cover is off, the tamper switch may be set to OFF position.



Note:

Don't forget to reactivate the tamper switch by switching the tamper switch from OFF position to the TAMPER position.

6. Box DIP Switch

The Box DIP Switch must be set to BOX2 position.

7. External power adapter jack

If the distance from a MUX Monitor to a camera is over 300ft(or 90m), connect the external power adapter to the Action box. (the external power adapter: 15Vdc/1.2A). Power connects to JP4 Pin 1 (VCC) and Pin 2 (GND).

EQUIPMENT SPECIFICATIONS

Connections	INPUT	6-pin modular jack, RJ11
	CAMERA	6-pin modular jack, RJ11
	Alarm Input	3-screw terminal block (N.O., COM, N.C.)
	Relay Output	3-screw terminal block (N.O., COM, N.C.)
	Power Input	2-screw terminal block (VCC, GND)
Power Supply	Through the modular cable (15Vdc) or External Power Supply Adapter (15Vdc / 1.2A)	
Power Requirement	15Vdc / 100mA	
Power Consumption	1.5 W	
Contact Ratings Relay	30V, 5AAC/DC	
Physical Characteristics	Dimensions	110W X 87D X 43H mm
	Net Weight	155g (approx.)
Operating Environment	Ambient temperature	0° - 35° C (32° - 95° F)
	Ambient humidity	10% - 90% (non-condensing)