Instruction Manual for Security Height Marker Camera

The Height Marker Camera was designed with ease of installation and high adjustability in mind. The curved front surface of the unit allows the camera to be rotated for site specific adjustments. The camera's 3.7mm IR corrected wide-angle lens provides a 74° field of view. The camera can be rotated 90° left and right of center to capture the desired view.
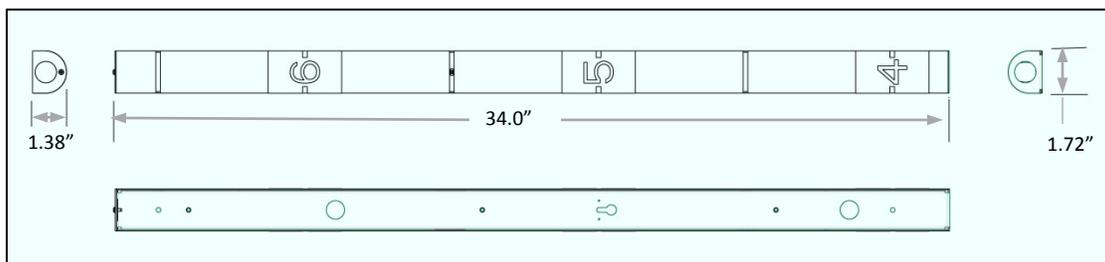
Sized to fit most standard door frames (1.7" width), and cable entry through the top, bottom, or rear of the unit allows the unit to be installed in a wide variety of locations. Equip the unit with an additional accessory camera and mount the Height Marker Camera between two doors to cover multiple exits with a single unit. Or position the additional accessory camera to view across the entrance to provide a full profile shot, while the other camera(s) faces in toward the flow of exit traffic.

Height Marker Cameras can be coupled with ceiling-mounted CCTV cameras to augment businesses' surveillance capabilities. The ceiling cameras capture the subject's height as he or she passes the highly visible height marker, while the camera inside captures facial images. When height marker tape is installed without an on-board camera, there is a risk of failing to capture quality facial images of subjects wearing a hat or hood.

NOTE:
Standard unit is painted white with color coded decals. Additional colors are available with or without height marker indicators. Please contact your Sales Representative or the manufacturer for details in matching the right camera solutions and specifications to the specific application requirements for best system performance.

Model		Description
HSW-H37		White Height Marker Camera w/Labels
HSB-H37		Black Height Marker Camera w/Labels
HSS-H37		Silver Height Marker Camera w/Labels
Specifications		**Height Marker Camera**
Image Sensor		1/3" 960H Exview HAD CCD II (Sony)
Signal System		NTSC
Signal Processing		DSP - Effio-E
Total Pixels		1020 (H) x 508 (V)
Effective Pixels		976 (H) x 494 (V)
Resolution		700 TVL
Mimimum Illumination		0.1Lux @ 30IRE, F1.2
S/N Ratio		>48dB
Control Method		OSD (See Maual for Complete Menu Options)
Electronic Shutter/AGC		1/60 - 1/100,000 sec / Auto / Maunual
White Balance		ATW, Push, Manual, AntiCR, User Defined
Backlight		Off, BLC, HLC
ATR		Off, On (Level Adjustment)
Day/Night		Auto, Color, B/W
Noise Reduction		Off, On (Level Adjustment)
Picture Adjust		Mirror, Brightness, Contrast, Sharpness, Hue, Gain
Motion Detection		Off, On (4 Areas)
Privacy		Off, On (4 Areas)
Camera ID		0~9, A~Z, Special Characters
Lens		3.7mm
Power Supply		12VDC
Power Consumption		80mA Max.
Operating Temperature		-10°C ~ +50°C (+14°F ~ +122°F), 80% RH Max
Construction		Powder Coated Aluminum Cover Powder Coated Steel Back Frame
Dimensions		1.72"W x 1.38"D x 34"L
Weight / Shipping		1.6-lbs / 3-lbs

1.38"   34.0"   1.72"

IMPORTANT SAFEGUARDS

1. Read Instructions - All the safety and operating instructions should be read before the unit is operated.
2. Retain Instructions - The safety and operating instructions should be retained for future reference.
3. Heed Warnings - All warnings on the unit and in the operating instructions should be adhered to.
4. Follow Instructions - All operating and use instructions should be followed.
5. Cleaning – Disconnect from power source before cleaning. Use a damp cloth for cleaning.
6. Do not use attachments not recommended by the product manufacturer as they may cause hazards.
7. Power Sources - This unit 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 supply you plan to use, consult your appliance dealer or local power company. For units intended to operate from battery power, or other sources, refer to the operating instructions.
8. Grounding or Polarization - This unit may be equipped with a polarized current line plug. 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 obsolete outlet. Alternately, this unit may be equipped with a 3-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 try to defeat these safety features.
9. Power-Cord Protection - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.
10. Power Lines - An outdoor system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outdoor system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal. U.S.A. models only - refer to the National Electrical Code Article 820 regarding installation of CATV systems.
13. Overloading - Do not overload outlets and extension cords as this can result in a risk of fire or electric shock.
12. Object and Liquid Entry - Never push objects of any kind into this unit through openings as they may touch dangerous voltage points that could result in a fire or electric shock. Never spill liquid of any kind on the unit.
13. Servicing - Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
14. Replacement Parts -When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
15. Coax Grounding - If an outside cable system is connected to the unit, be sure the cable system is grounded. U.S.A. models only--Section 810 of the National Electrical Code, ANSI/NFPA No.70-1981, provides information with respect to proper grounding of supporting structure, grounding of the coax to a discharge unit, size of grounding conductors, location of discharge unit, connection to ground, and requirements for the grounding electrode.

FCC INFORMATION
WARNING - This equipment complies with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. Limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates and can radiate radio frequency energy, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna or increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Intentional or unintentional changes or modifications not expressly approved by the party responsible for compliance shall not be made. Any such changes or modifications could void the user's authority to operate the equipment. The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems", available from U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4.

1. UNPACKING

Unpack carefully. This equipment should be handled with care.

Check for the following items:

• Verify the unit model number.

• Verify that parts listed below have been included.

If an item appears to have been damaged in shipment, replace it properly in its carton and notify the shipper. If any items are missing, notify your dealer or Sales Representative or Customer Service. The shipping carton is the safest container in which the unit may be transported. Save it for possible future use.
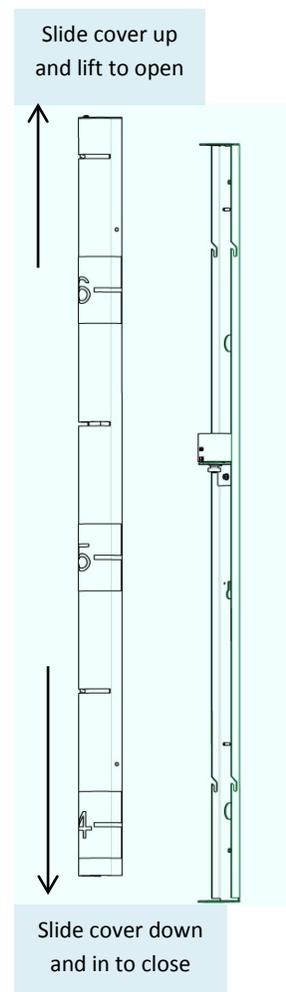
Height Marker Camera

Hardware Kit

2 x Cable Ties

2 x Cable Tie Mounts

3 x Plastic Wall Anchor

3 x #8 cross recessed self-tapping screw, 1-1/2" length

1 x Barrel Plug Connector, 2.1mm pin, 36" length, stripped leads

1x Power Supply 120V to 12VDC 500mA

2. INSTALLATION

Tools required:

#2 Cross Recessed Screwdriver (Philips)

Level

Wire Splice and Crimper or Wire Nuts

Drill with 3/16" bit (Optional 1/8" bit)

Optional: Drill with ½" bit

Optional: De-burr tool

Slide cover up and lift to open

1. Choose desired location for camera installation. Verify mounting structure and surface is capable of supporting the camera and no obstacle or interference is present from existing installed devices or wiring.
2. Measure a distance of 5 feet from the finished floor height and mark vertical location.
3. Mark centerline of horizontal location.
4. For plastic anchors, drill a 3/16" hole at intersection of the vertical and horizontal marks. If the anchors are not being used, drill a 1/8" hole in mounting surface.
5. Install plastic anchor and #8 screw. Do not tighten.
6. Remove cover from Height Marker Camera by removing screw from top cover, then slide cover up and lift.
7. Place center mounting keyhole in base over installed #8 screw. Level and align camera base and frame.
8. Mark top and bottom mounting locations.
   If wiring connection is being made through the back of the camera base frame. Mark wire ingress location.
9. Remove camera base frame and set aside.
10. Drill 3/16" hole at mounting location marks and install anchors.
    If wiring connection is being made through the back of the camera base frame. Drill wire ingress holes.
11. Place base over installed #8 screw, tighten screw, install and tighten top and bottom mounting screws.

Slide cover down and in to close

12. Feed external wiring for power and video into base frame through rear hole or conduit knockout. If top knockout is used, the wire must feed through it and cover retained loosely until final step of installation.
13. Attach video and power. A 2.1mm barrel power connector is provided; the striped lead is for 12VDC+. Connect leads with butt splices or wire nuts. Use cable tie mounts and ties to secure and strain relieve connections.
14. Adjust camera field of view by loosen white knurled nut below camera bracket and rotating camera assembly to desired position.
15. Place cover over base frame about 3/4" inch above bottom of frame. With light pressure, push toward base and down until cover is seated against bottom of frame and cover is secure.
16. Place top cover plate in position and tighten screw with light pressure. Do not over torque.

3. On-Screen-Display (OSD)

The camera's capabilities can be set-up for best performance based on a variety of lighting condition and other functional requirements by means of an OSD menu. The OSD menu can be activated and controlled by means of the mini-joystick dongle attached to the camera and mounted to the back frame of the camera case. For the specific functions of the camera accessible through the OSD menu, refer to the Effio-E Menu addendum sheet found in the installation hardware kit.

4. SERVICE

If the unit ever needs repair service, the customer should their dealer or manufacturer's Sale Representative.

5. CARE AND MAINTENANCE

If the unit needs cleaning, use a soft damp cloth to wipe the external cover.