

MED-VFC-SCT-UPG

INSTALLATION MANUAL

DOC-288
Rev. 1.0

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notes

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CHAPTER 1 | INTRODUCTION

The MED-VFC-SCT-UPG is a camera upgrade package featuring the VID-CAM-MONO-4 FireWire-B camera for Video Freeze applications. The package includes the VID-CAM-MONO-4 camera, the required FireWire B to A cable and a CD containing this manual and installation drivers.

Camera specifications:

Resolution (H x V pixels)	659 px x 494 px
Pixel Size horizontal/vertical	9.9 μm x 9.9 μm
Mono/Color	Mono
Interface	FireWire-b
Exposure Control	Programmable via the 1394 bus
Design	Housed
Housing Temperature	0 °C - 50 °C
Lens Mount	C-mount
Conformity	<ul style="list-style-type: none"> • CE • RoHS • IP30 • FCC • DCAM
Sensor Vendor	Sony
Sensor Name	ICX414
Sensor Technology	Progressive Scan CCD, global shutter
Sensor Size (optical)	1/2 inch
Sensor Type	CCD
Sensor Size (mm)	6.52 mm x 4.89 mm

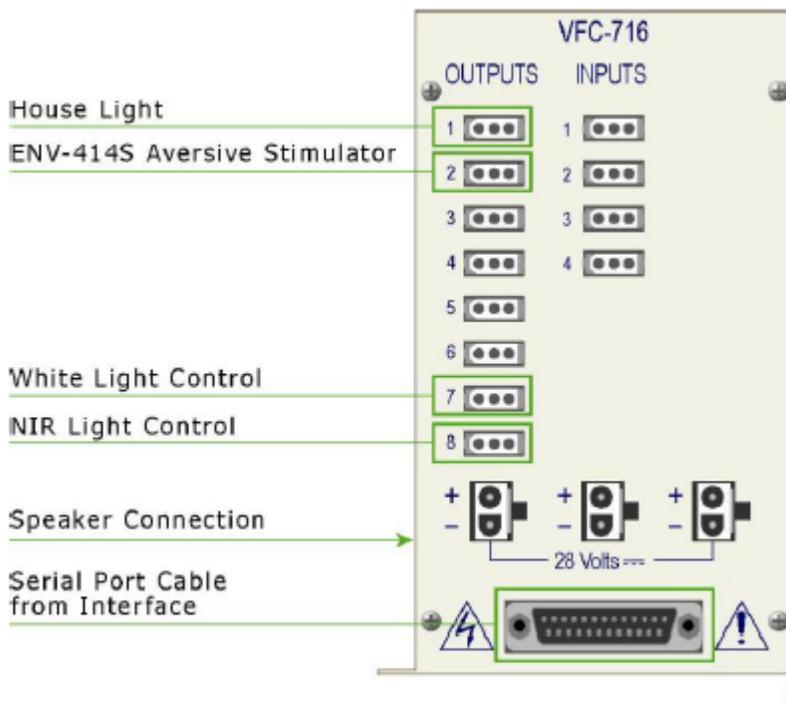
CHAPTER 2 | CAMERA INSTALLATION

Cable and Camera Replacement

Before proceeding, be sure all equipment and the PC are powered off.

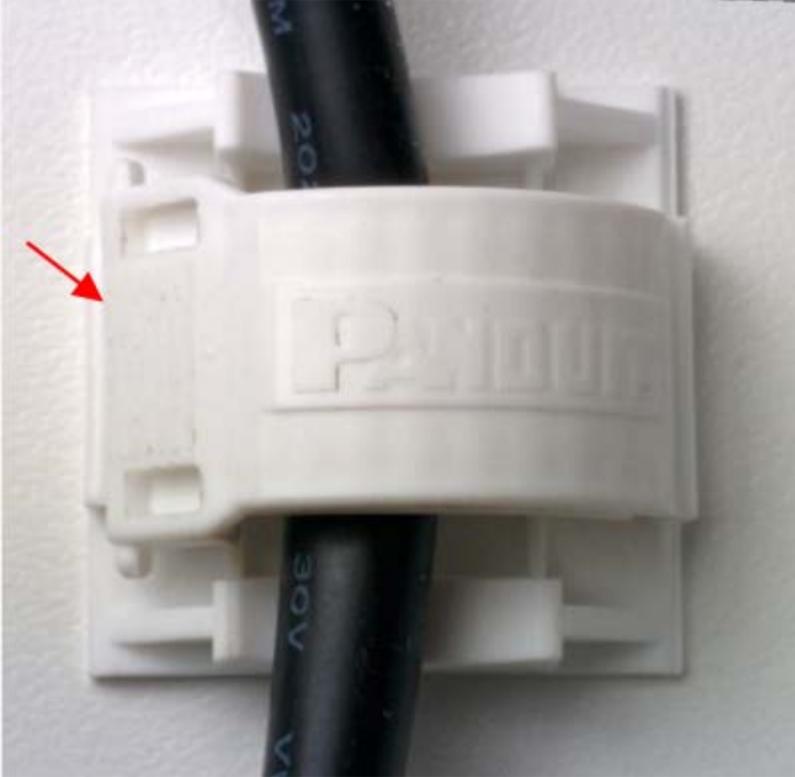
Replacing the cable requires removing the animal chamber from the sound attenuating cubicle (SAC) in order to reach the back of the SAC. If your cables are not already labeled please take the time to label where each cable plugs into the inputs and outputs on the VFC-716 connection panel. Disconnect your inputs and outputs, the serial data cable, the serial cable connected to the grid floor, the power cable connected to the VFC-716 and the fan cable and carefully slide the animal chamber out of the SAC and set it aside.

Figure 2-1 - VFC-100 Connection Panel Wiring Guide



Disconnect the cable from the camera and release the cable clips that secure the camera cable along the side and back of the SAC. Using your finger or small flat bladed screw driver, gently pry open the clips. The clips will slide open from one side only, see Figure 2-2.

Figure 2-2- Opening Side of Cable Clip

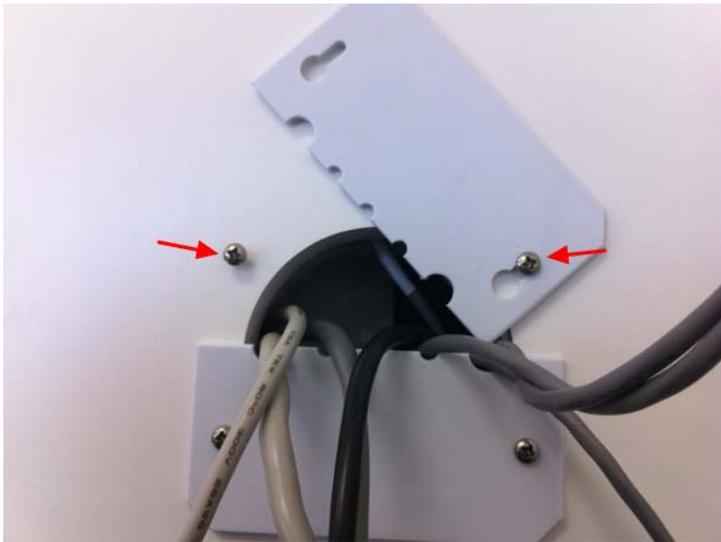


Loosen the top screws of the cable grommet plate on the side of the SAC. The top portion of the grommet will now lift up and out of the way, see Figure 2-3.

Remove the old cable and feed the new camera cable in through the grommet opening. Route the cable along the back of the SAC and up the side to the camera location. **Do not close the cable clips at this point.**

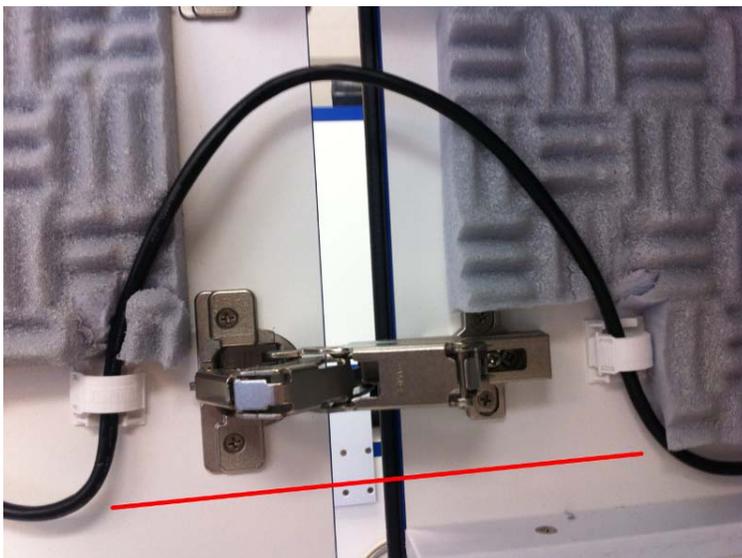
Attach the VID-CAM-MONO-4 to the door bracket using the two thumb screws and attach the cable to the camera. Be sure to note the orientation of the plug, the cable will only connect in one orientation and damage will occur if the cable is forced in the wrong direction.

Figure 2-3- Cable Clam Shell



Secure the cable in place using the cable clips starting from the camera and working back to the grommet. To reduce cable fatigue, include enough slack in the cable after the first clip to create a peak in the cable where it crosses the door hinge and seam, see Figure 2-4. The red line in Figure 2-4 indicates where your old cable may have been routed and where the cable should not be routed. A decent sized peak should be present when the door is fully open. Continue securing the cable along the side and back of the SAC using the clips. When done, replace the cable grommet and secure it in place.

Figure 2-4- Peak in Camera Cable



Replace the animal chamber and connect the inputs and outputs, the serial data cable, the serial cable connected to the grid floor, the power cable connected to the VFC-716 and the fan power cable. At this point do not connect the camera cable to the PC or the FireWire hub.

Driver Installation

Power up the PC, Video Freeze equipment and then start Windows Device Manager. In Windows XP click Start > right click My Computer > Properties > Hardware tab > Device Manager button and expand the Med Associates Devices category. In Windows 7 click Start > right click Computer > Properties > Device Manager and expand the Med Associates Devices category. If you have existing cameras you will see them listed.

Place the MED-VFC-SCT-UPG CD in the CD drive and click Install at the welcome splash screen. If the CD does not auto-start, navigate to your CD drive in Explorer and double-click the autorun.exe file and choose Install at the welcome screen.

If installing more than one camera, work on one camera one at a time. If the cable(s) is longer than 6m (~20ft) use the FireWire hub(s) originally supplied with the Video Freeze system and be sure the hub power supply is plugged in to the hub and wall outlet.

When the new driver is installed, plug the camera into the PCI FireWire card or hub. Windows will install the drivers and the camera will appear in the Med Associates Devices category in Device Manager. **Do not connect more than 2 cameras to a hub or PCI FireWire card. Do not exceed more than 2 cameras plugged into 1 PCI FireWire card.**

If there are additional cameras to be installed, the next camera may now be connected to the appropriate hub or PCI FireWire card. Windows will automatically install the drivers and the camera will appear in Device Manager.

Once all cameras appear in Device Manager, close Device Manager and start Video Freeze. Complete the camera calibration as outlined in the Video Freeze manual, DOC-019, chapter 5.

APPENDIX A | CONTACT INFORMATION

Please contact Med Associates, Inc. for information regarding any of our products.

Visit our website at www.med-associates.com for contact information.

For technical questions, email support@med-associates.com.