



CNL Generic Matrix Camera Driver V1.0.0

Release Documentation and Installation Guide

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For Internal Use Only

Version History

1.0	K Sheglova	Created as new	2006-02-21
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Introduction

The following document outlines the instructions and prerequisites for the new device driver. It contains installation and upgrade instructions as well as technical prerequisites and system requirements.

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1. Version Information

1.1 Versions

IPSecurityCenter Build Version:	1.0
Driver version:	1/0
Hardware Version:	N/A
Firmware Version:	N/A

The driver is compatible with the following matrix drivers:

Vicon V1466 Matrix Driver
Honeywell (VCL) HMAX Matrix Driver
360 Vision Matrix Driver
AD180 Matrix Driver

The driver is compatible with the following video drivers:

Visimetrics Octar Driver

1.2 Driver Functionality

The Generic Matrix Camera is used as the camera type for all matrix devices and provides a camera which can be used to view and control cameras connected to the matrix. They are automatically created and attached to matrix devices when they come online.

1.2.1 Client Functionality

- **Camera Orientation:**
This property allows the tilt directions to be changed for the camera. Set this property to 'Inverted' if tilting the camera down causes it to tilt up.
- **Monitor Select Mode:**
This indicates to the matrix the monitor selection mode for the camera. There are three different modes:
 - Manual** – This mode should only be used if the selection of the monitor is done by calling the 'Switch Monitor' method on the matrix prior to the camera being displayed.
 - Specific** – Displays the camera on the monitor specified in the 'Display Monitor' property. The 'Display Monitor' property uses 1-based indexes (i.e. '1' specifies the first monitor output)
 - Next Available** – A monitor that is not in use by an operator is searched for. If no available monitor is found then a monitor is acquired from another user if their PTZ priority is higher.
- **PTZ control / Video display of the camera:**
If the camera is connected just to a matrix then a PTZ interface is provided in the output control. If the camera is connected to a matrix and a compatible video server then video is displayed for the interface the camera is connected to and PTZ operations are performed through the matrix.

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1.2.2 Server Functionality

- PTZ functionality – Applicable to all PTZ devices: Lock Camera, Unlock Camera

The camera may also show methods and properties particular to the type of matrix (e.g. 'Flip', 'Add Preset') it is connected to. Refer to the specific matrix documentation for these.

2 System Requirements

There are no specific system requirements for the Generic Matrix Camera.

3 Operating System Requirements

3.1 Server

Microsoft Windows XP SP2

Microsoft .NET Framework Version 1.1

3.2 Client

Microsoft Windows XP SP2

Microsoft .NET Framework Version 1.1

4 Best Practices

The Generic Matrix Camera is compatible with all matrix devices. A consequence of this is that it can be physically connected to two matrix devices through IPSecurityCenter. This should not be done. A matrix camera should only ever be connected to one matrix and, optionally, a video server.

5 Installation Notes

As cameras can be attached to two devices (matrix and video server) any device status handling (e.g. when the camera goes offline) should be done through their parent devices if possible.

6 Caveats

7 Troubleshooting

8 Related Documentation

9 Disclaimer