Using the FLIR PTZ-35x140

with NetDVMS

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0009101001236-SP4.24019

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Introduction

The FLIR PTZ-35x140MS is a high-resolution multi-sensor camera system designed specifically for the security market for medium to long range security applications. It includes a sophisticated thermal imaging system that provides excellent night visibility and situational awareness. This model also contains a dual field-of-view thermal imaging system called Foveus, patented by FLIR, which provides a high resolution thermal image with a 5° view nested inside a wider 20° view. In addition to this thermal imaging system, is a high resolution daylight camera which provides optimal surveillance regardless of the time of day or lighting conditions.

Ocularis, when used with the NetDVMS network video recorder, allows you to switch modes of this sophisticated camera on the fly from within the Ocularis Client using the “Pelco D” protocol.

This document discusses the software configuration and use for the FLIR PTZ 35x140MS camera with NetDMVS and Ocularis. It assumes that all hardware is already configured (see the documentation included with the FLIR camera or www.flir.com) and the use of an Optelecom V30E analog encoder.

NetDVMS Configuration

Use the following procedures to configure the FLIR PTZ-35x140MS camera in NetDVMS.

- Add the Camera to NetDVMS
- Configure the Camera Driver
- Adjust FLIR Mode Settings

Add a Camera to NetDVMS

Add the FLIR camera to NetDVMS as you would any other camera.

1. Open the *NetDVMS Administrator* application.
2. Click **Add Device**.

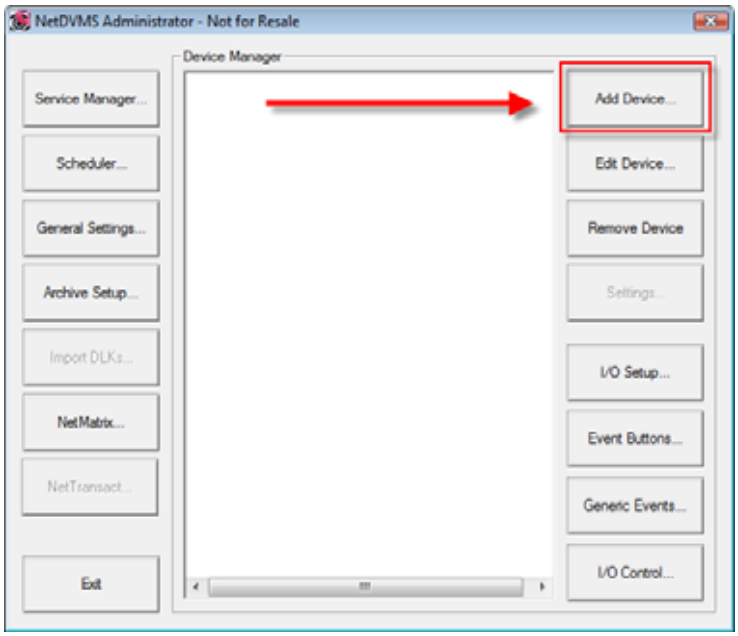

Figure 1 Adding a Device from NetDVMS Administrator

3. Enter the IP address for the camera. Click **Next**.

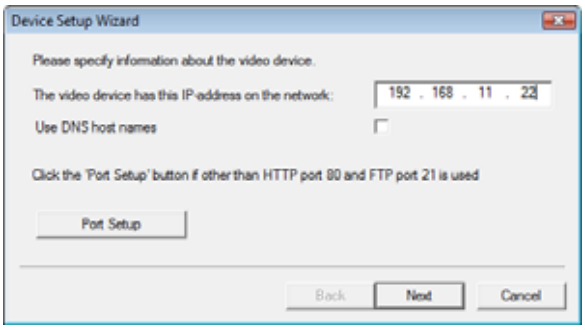

Figure 2 Add an IP Address for the Device

4. Enter the password for administrative access to the camera as well as the driver for the corresponding encoder used. Click **Next**.

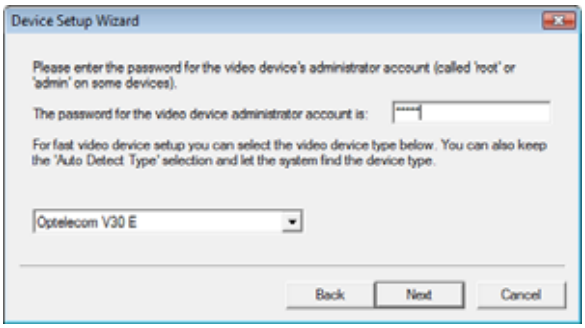

Figure 3 Enter password and select driver

5. When the camera is found, click **Next** on the following screen:

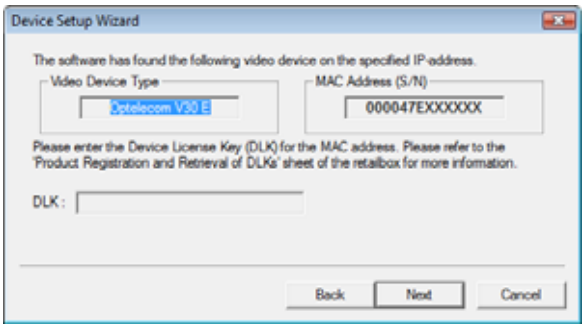

Figure 4 Device Found

6. Enter a display name for the camera.

Figure 5 Assign a name to the device

This is the label that will appear to the user.

7. Click **Finish**.

Further configuration is required for this camera.

Configure the Camera Driver

1. The camera now appears in the NetDVMS Device Manager. Expand and select the device and click **Edit Device**.

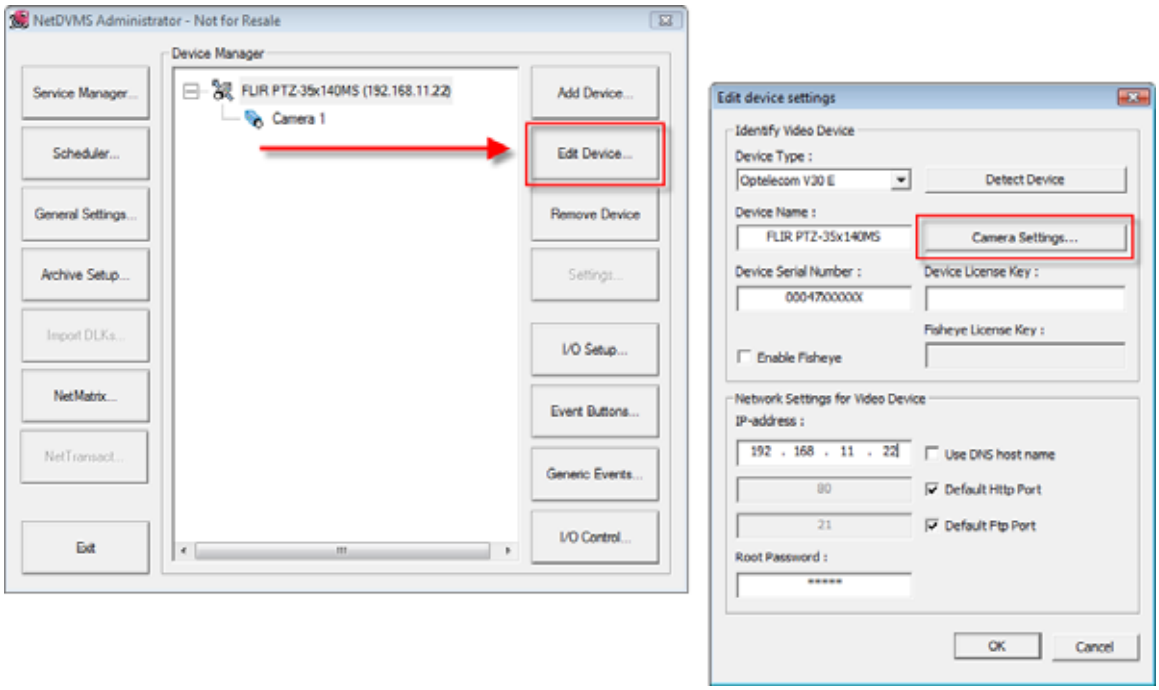

Figure 6 Configure Driver Settings

2. From the *Edit device settings* screen, click **Camera Settings**.

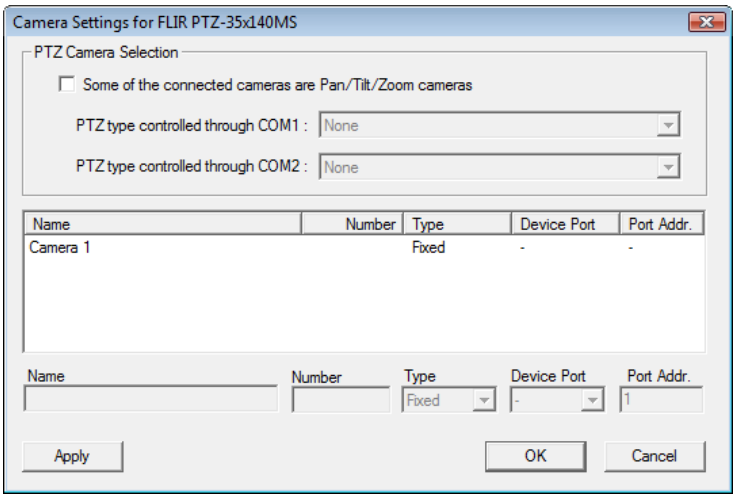

Figure 7 Modify Driver Settings

3. Check the *Some of the connected cameras are Pan/Till/Zoom cameras* checkbox.
4. In the *PTZ type controlled through COM1* drop-down, select **Pelco-D**.
5. Click the row that says “Camera 1” to enable entry in the fields at the bottom of the pop-up.

6. fill out the fields according to the following:

Field Name	***Description***
Name	This is the camera label that will be displayed. You may change the name here.
Number	This is a number assigned as a shortcut to the camera. It is not currently used but a number must be entered.
Type	Select **Moveable** from the drop-down menu.
Device Port	Select **COM1**
Port Addr	Default is '1' and this is the recommended setting.

7. Click **Apply**.

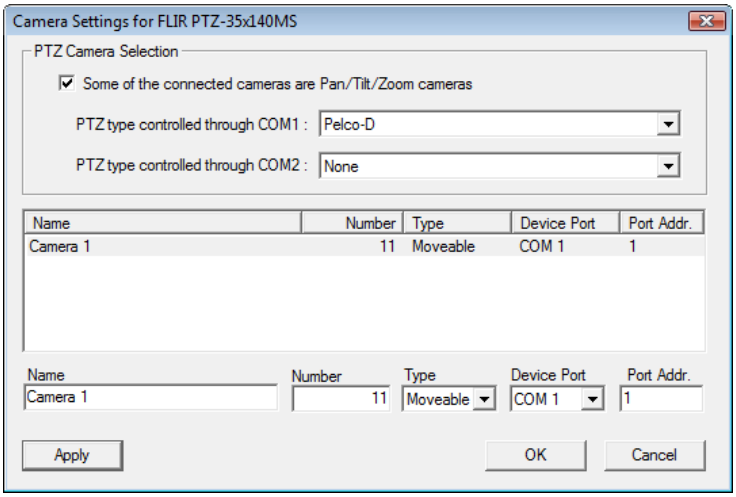

Figure 8 Modify Driver Settings

8. Click **OK** to close this pop-up.
9. Click **OK** to close the *Edit Device* pop-up.
10. To be sure that all changes are saved, click the **Exit** button to avoid possible data loss.

The next step is to configure the various FLIR modes.

Adjust FLIR Mode Settings

Operators using *Ocularis Client/Client Lite* may change the modes of the FLIR camera on the fly while viewing camera video. Follow these steps to configure FLIR presets to be able to allow these functions.

1. Reopen the *NetDVMS Administrator*.
2. The PTZ settings need to be accessed, so pause the Recording Server by clicking the **Service Manager** button and clicking **Pause**.
3. Once the recording server is paused, select the FLIR camera and click the **Setting** button.

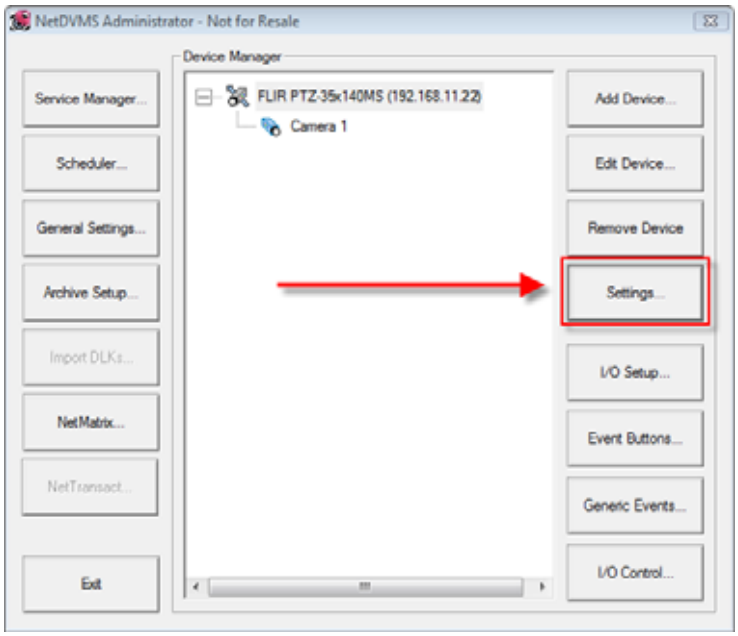

Figure 9 Modify Camera Settings

4. The *Camera Settings for FLIR PTZ-35x140MS* screen appears. Click the **PTZ Preset Positions** button in the lower right corner.
5. The *PTZ Preset Positions* pop up appears. The *Preset Positions* list is prepopulated with the presets as defined by the manufacturer.

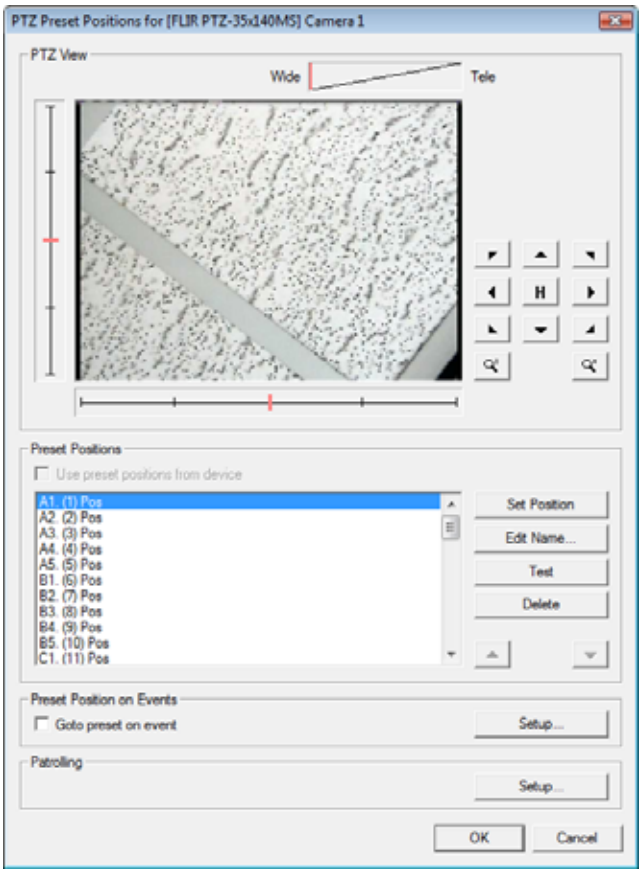

Figure 10 PTZ Preset Position Settings

In order for operators to control the various modes of this camera, presets must be configured using specific names.

6. Identify 8 presets to define. It can be any eight and for ease of configuration, we suggest using 8 contiguous presets.

FLIR_ACTIVE_DLTV
FLIR_DLTV_AUTOFOCUS
FLIR_ACTIVE_IR
FLIR_BLACK_HOT
FLIR_WHITE_HOT
FLIR_PLATEAU_VALUES
FLIR_AGC_TYPE
FLIR_IR_FFC

Table 1 FLIR Preset Names

7. Select the first preset to be configured, and click the **Edit Name** button.
8. In the *Preset Position* pop-up, enter a preset name from the list in Table 1.

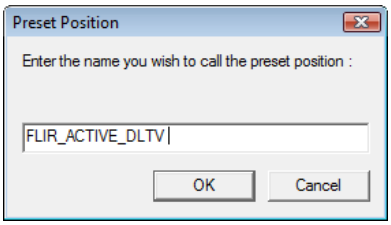

Figure 11 Preset Position Name

9. Click **OK**.
10. Repeat this process for each of the modes listed in Table 1.

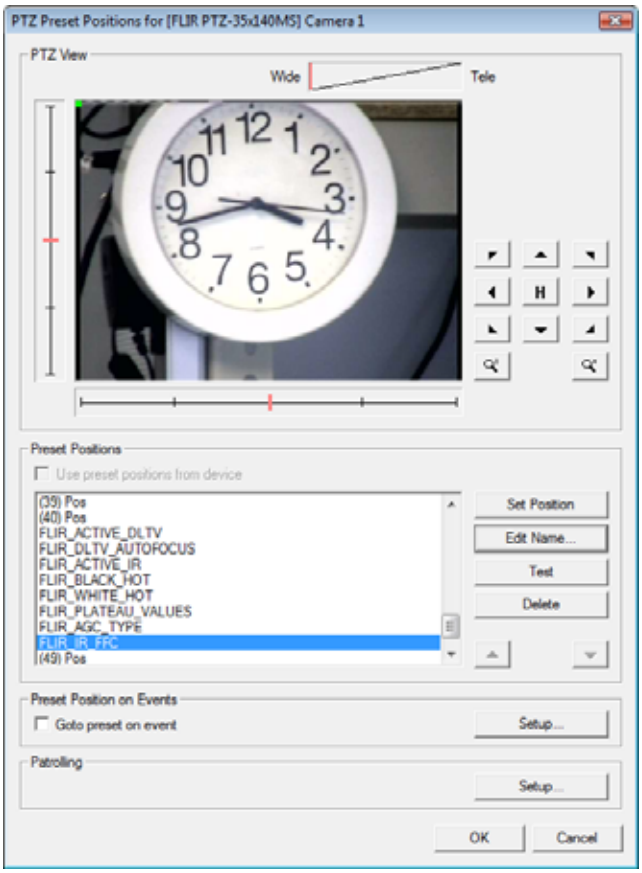

Figure 12 Preset Position Settings

11. When done, click OK to save and close the *PTZ Preset Positions* pop up.
12. Click **OK** to close the *Camera Settings* pop up.
13. Click **Exit** to save changes, restart the Recording Server and close the *NetDVMS Administrator*.

The FLIR camera has now been configured in NetDVMS.

Assign Device Privileges

The next step is to assign rights for this camera to each user. If using Ocularis, this is done via the *Ocularis Administrator* application. Refer to the *Ocularis Administrator User Manual* for further instructions.

If using NetDVMS directly with *Ocularis Client Lite*, this is done in the NetDVMS *Image Server Administrator*. Refer to the *NetDVMS User Manual* for further instructions.

In either case, be sure that the user has privileges to control the presets for this camera.

Add the FLIR to a View

While not required, you likely want to include the newly added FLIR to one of the views available to the operator(s). If using Ocularis, views are created in the *Ocularis Administrator* application. Refer to the *Ocularis Administrator User Manual* for further instructions.

If using NetDVMS directly with *Ocularis Client Lite*, views are created in the *Ocularis Client Lite* setup mode. Refer to the *Ocularis Client/Client Lite User Manual* for further instructions.

Using the FLIR

Once the FLIR has been added and configured in NetDVMS and appropriate privileges have been assigned and views created, the operator may now change the mode of the FLIR while viewing its video.

1. Log in to *Ocularis Client/Client Lite*.
2. Open a view that contains the FLIR camera. Or right-click to display the *Circular Control* Menu and select the FLIR from the *Select Camera* quadrant.
3. Position the mouse over the FLIR pane to display the *Interactive Overlay Controls*.

Figure 13 Interactive Overlay Controls

4. Click the *presets* control to display configured presets for this camera.

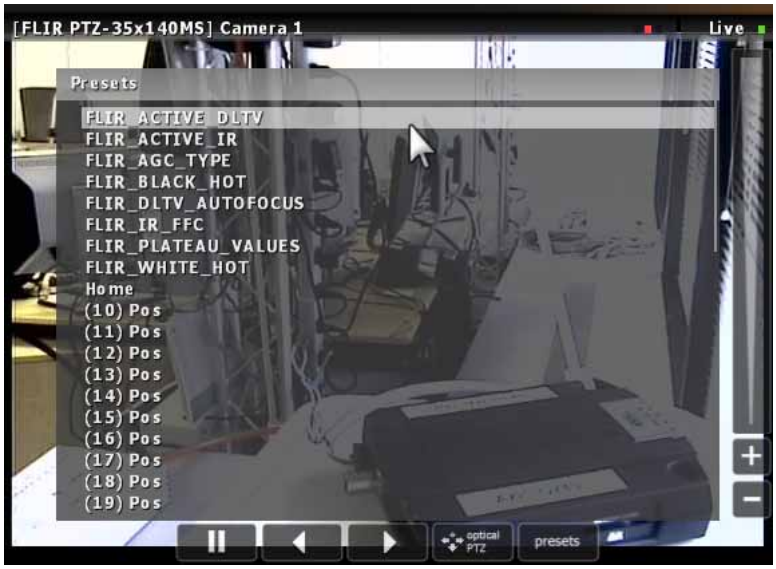

Figure 14 Select Mode from Preconfigured Presets

5. Select from the preconfigured presets to change the mode of the FLIR camera.

> ***Note:*** *The mode of the FLIR is set at the camera. Therefore, if one user changes the mode, it will be changed for all users. Also, the mode that is displayed, is the mode that the video is streamed and, therefore, the mode that the video will be recorded.*

Pelco D Aux Command Reference

For more information, see the FLIR (www.flir.com) and Pelco (www.pelco.com) websites.

Pelco Aux Command	Command	TVIS7 or SR100	NetDVMS Preset Names
Aux 1 on	FF 01 00 09 00 01 0B	Black Hot	FLIR_BLACK_HOT
Aux 1 off	FF 01 00 0B 00 01 0D	White Hot	FLIR_WHITE_HOT
Aux 2 on	FF 01 00 09 00 02 0C	Active = DLTV	FLIR_ACTIVE_DLTV
Aux 2 off	FF 01 00 0B 00 02 0E	Active = IR	FLIR_ACTIVE_IR
Aux 3 on	FF 01 00 09 00 03 0D	Toggle Plateau Values	FLIR_PLATEAU_VALUES
Aux 3 off	FF 01 00 0B 00 03 0F	Toggle AGC Type	FLIR_AGC_TYPE
Aux 4 on	FF 01 00 09 00 04 0E	DLTV Autofocus (toggle)	FLIR_DLTV_AUTOFOCUS
Aux 4 off	FF 01 00 0B 00 04 10	IR FFC	FLIR_IR_FFC

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