



## Tech Tip 090033

### Bosch Encoder Setup Guide

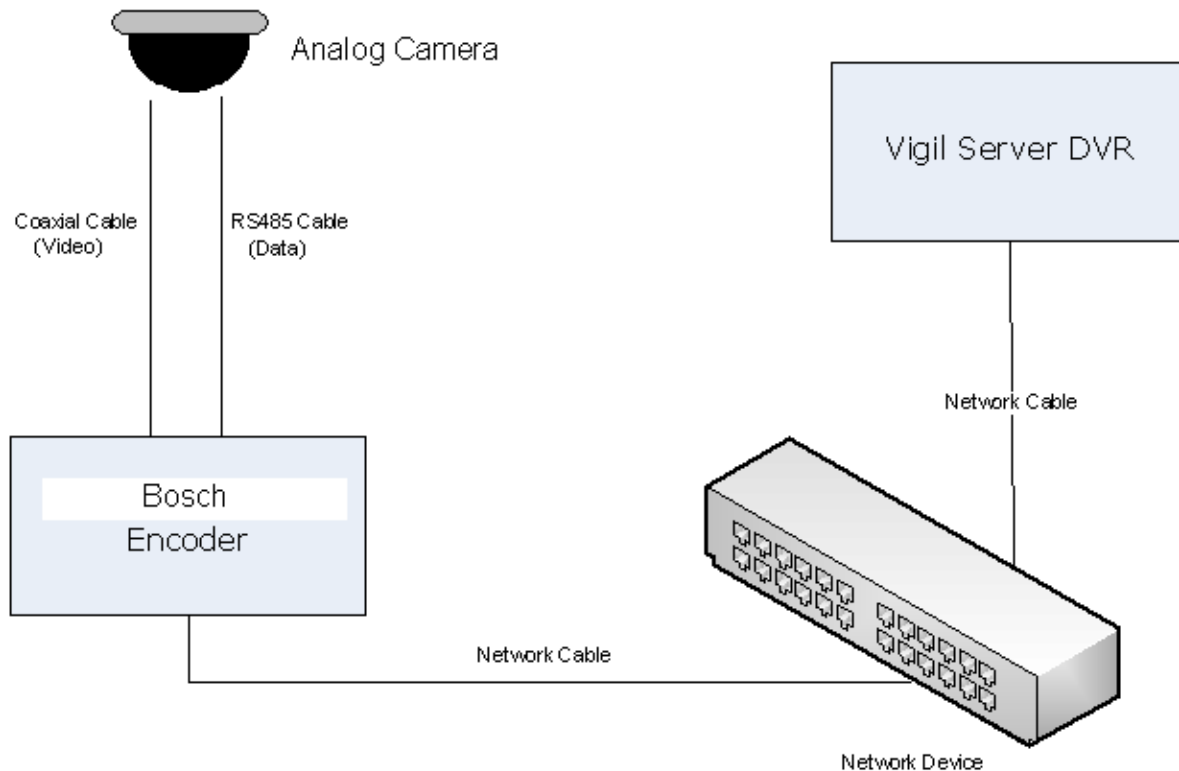
<b>Tech Tip Number:</b>	090033
<b>Date:</b>	November 23, 2009
<b>Product Affected:</b>	Vigil Server version 6.00 and higher
<b>Purpose:</b>	This bulletin provides instructions on how to configure Vigil Server to use a Bosch encoder to display and control cameras.

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## 1 Basic Hardware Configuration Layout

The analog camera connects to the encoder using coaxial cable to transmit the video signal and RS485 cable to transmit camera control signals (optional). The encoder communicates with the Vigil Server DVR over the network. Please note that in order to avoid unnecessary network traffic, connect the Vigil Server DVR and the IP Cameras to the same network device when possible. Please refer to the detailed wiring diagram on the following page for wiring details.



Note: To avoid unnecessary network traffic, connect the Vigil Server DVR and the IP Cameras to the same network device when possible.

Once the hardware is setup according to the above diagram, please check the following settings:

## 2 Web Settings COM Configuration for Camera Control

1. Open Internet Explorer and enter the IP Address of the Bosch encoder to get to the camera web settings.
2. At the top of the screen, click *Settings*.
3. On the left pane, click *Advanced Mode > Interfaces > COM1*.



4. Check the COM settings, they should be set to:

**Serial port function** = Transparent  
**Baud Rate** = 9600  
**Data Bits** = 8  
**Stop Bits** = 1  
**Parity check** = None  
**Interface mode** = RS485

5. Click *Set* to save any changes to the COM Settings.

### 3 Vigil Server Camera Configuration

1. In **Vigil Server**, click on **Settings** and then select an available camera input on the left.
2. Enable the **Network Camera** checkbox on the right, select the desired recording speed from the dropdown list and click *OK*.
3. In the *Network Camera Settings* window, enter these settings:

**Type:** Bosch

**Address:** Enter the address of the Bosch Encoder as configured in the above Web Setting Configuration steps.

**Camera Number:** Enter which Bosch encoder camera number to use.

**Stream Type:** Choose JPEG, H263 Stream1, or H263 Stream 2 as the stream type.

**Decoding FPS:** The Decoding FPS controls the maximum FPS available in the Vigil Live Viewer. The recommended setting for best CPU performance is 1 FPS.

**User Name / Password:** Enter the user name and password for the Bosch encoder, if applicable.

The screenshot shows the 'Network Camera Settings' dialog box. The 'Type' is set to 'Bosch'. The 'Address' is '10.1.12.193'. The 'Port' is '80'. The 'Camera Number' is '2'. The 'URL' is '/snap.jpg?JpegCam=2'. The 'Stream Type' is 'JPEG'. The 'Timeout' is '5' seconds. The 'Decoding FPS' is '1 FPS'. The 'Live Resolution' is 'Full Resolution'. There are empty fields for 'User' and 'Password'. There are checkboxes for 'Recompress' and 'Fast Decompression'. The 'OK' button is highlighted.

4. Click **OK** on the *Network Camera Settings* window.
5. Click **OK** on the *DVR Settings* window.
6. **Repeat the Vigil Server setup steps for each Bosch camera.**
7. Please check to ensure that all of the cameras are displayed in the live viewer and also in the playback window.

#### 4 Vigil Server COM Configuration

1. In **Vigil Server**, click on **Settings**.
2. Go to the **DVR Settings** tab > **Hardware** sub tab and click **AUX Device Settings**.
3. In the *AUX Device Settings* window click **Add**.
4. In the *Edit DIO Device* window, enter these settings:

**Type:** Bosch IP Device

**Address:** Enter the address of the Bosch Encoder as configured in the above Web Setting Configuration steps.

**User Name / Password:** Enter the user name and password for the Bosch encoder, if applicable.

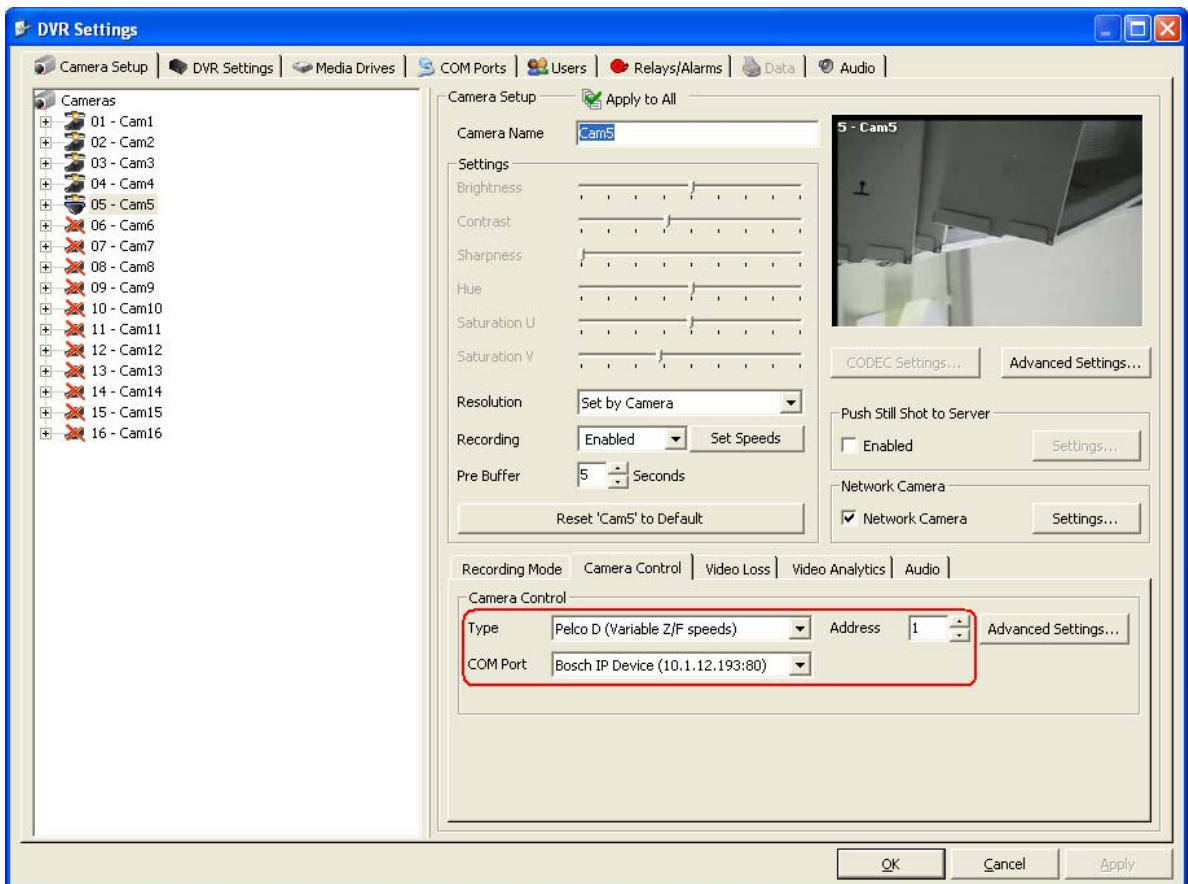


The image shows a Windows-style dialog box titled "Edit DIO Device". At the top, there is a "Type" dropdown menu currently set to "Bosch IP Device". Below this is a section titled "Network Settings" which contains several input fields: "IP Address" with the value "10.1.12.193", "Port" with the value "80", "User Name" (empty), "Password" (empty), and "Timeout" with the value "2". At the bottom of the dialog, there are three buttons: "Test IP" (with a dotted border), "OK", and "Cancel".

5. Click **OK** on the *Edit DIO Device* window.
6. Click **OK** > **OK** to save the settings.

## 5 Vigil Server Camera Control Configuration

1. Again, in **Vigil Server**, click on **Settings** and then select the Bosch camera that was configured in Section 3: Vigil Server Camera Configuration.
2. In the bottom of the *Camera Setup* tab, select the **Camera Control** sub tab.



3. In the **Type** dropdown, select **Pelco D**.
4. In the **COM Port** dropdown, select **Bosch IP Device**. The IP address in the brackets should match the IP address for the Bosch encoder you wish to use.
5. Select an **Address** number to use for the camera control. Each camera using the same Bosch IP Device should have a unique address.
6. Click **OK** on the *DVR Settings* window.
7. Please check to ensure that the camera can be controlled in the live viewer.

## Contact Information

If you require more information, or if you have any questions or concerns, please contact 3xLogic Technical Support:  
Toll Free (North America): 1-877-3XLOGIC (1-877-395-6442)  
Email: [support@3xlogic.com](mailto:support@3xlogic.com)  
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