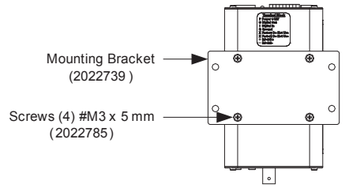
CEN-NVS200

Network Video Streamer

quickstart guide

1 Mounting the CEN-NVS200

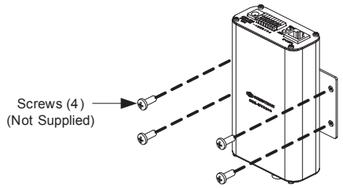
1. Attach the included mounting bracket.



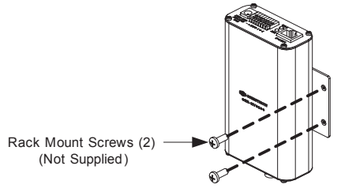
2. Mount the CEN-NVS200 on a flat surface or on a rack rail.

NOTE: The CEN-NVS200 must be installed in a temperature-controlled environment ranging from 32° to 131° F (0° to 55° C).

CEN-NVS200 Surface Mounting



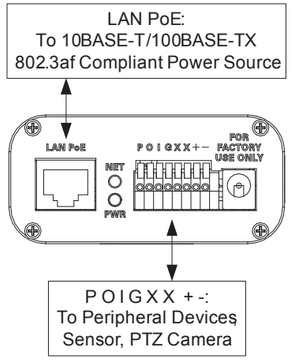
CEN-NVS200 Rack Mounting



Mount the left or right side of the bracket on a front or rear rack rail (right-side mounting shown).

2 Hardware Hookup

(Top) LAN PoE and 8-Position Terminal Block Connections



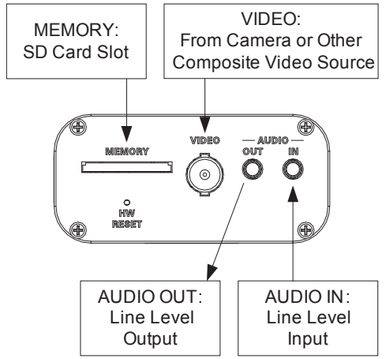
P = 12 Volts
O = Digital output
I = Digital input
G = Ground
+ = RS-485, T+/R+
- = RS-485, T-/R-

NOTE: Do not connect anything to the **X** terminals.

NOTE: For connection to a third-party PoE power source, refer to third-party device documentation.

NOTE: By default, the CEN-NVS200 uses DHCP. If DHCP is not available, the IP address defaults to 169.254.0.99 and a subnet mask of 255.255.0.0 will be used. If another device uses that address, another address in the local link address space is selected (169.254.xxx.xxx).

(Bottom) Video and Audio Connections



NOTE: The CEN-NVS200 accepts SD cards up to 16 GB.

If necessary, use the supplied BNC to RCA adapter to connect the camera.

3 Configuring the CEN-NVS200

A. Access the Configuration Web Pages

1. In the Crestron Toolbox™ application's Device Discovery Tool, select **Crestron CEN-NVS200**. The CEN-NVS200 home page opens.

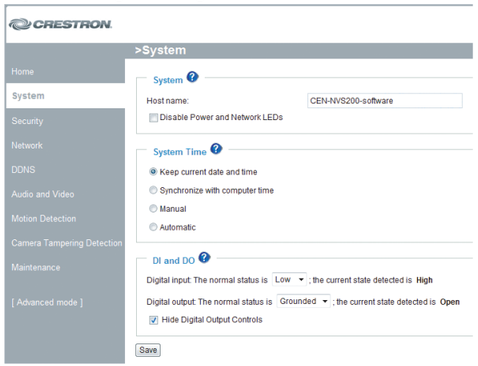
CEN-NVS200 Home Page (Default)

2. Select **Configuration**. The "System" configuration page will open (refer to section 3B).

B. (Optional) Configure System Settings

1. On the "System" configuration page, modify the default host name, **CEN-NVS200**, using a name that is meaningful for your environment.
2. Configure DI (Digital Input) and DO (Digital Output) settings.
3. Click **Save**.

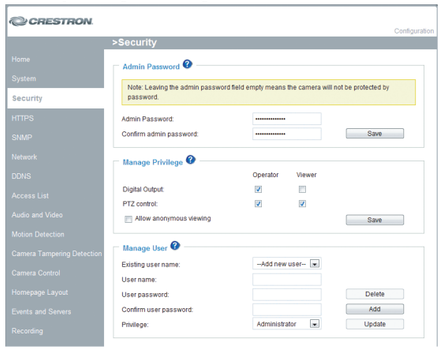
"System" Configuration Page



C. Configure Security Settings

1. Click **Security**. The "Security" configuration page opens.
2. In the *Admin Password* pane, assign an administrator password, an then click **Save** at the bottom of the pane. A log-in window opens.
3. Enter *admin* as the user name, and then enter the password assigned in step 2.
4. In the *Manage User* pane, create a user account with *Privilege* set to **Viewer**, and then click **Add**.

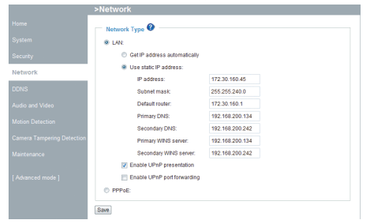
"Security" Configuration Page



D. Configure Network Settings

1. Click **Network**. The "Network" configuration page opens.
2. Configure a static IP address and related network information.
3. Click **Save**.

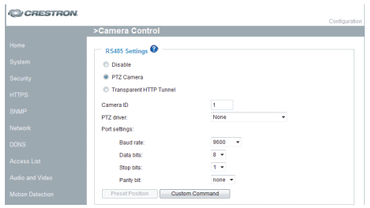
"Network" Configuration Page



E. (Optional) Configure Camera Control Settings

1. In the column of options on the left side of the page, click **Advanced Mode**.
2. Click **Camera Control**. The "Camera Control" configuration page opens.
3. Click **PTZ Camera**, and then configure the camera settings as required.
4. Click **Save**.

"Camera Control" Configuration Page



CEN-NVS200

For details, refer to the latest version of the **CEN-NVS200** Operations & Installation Guide, Doc. 7111.

QUICKSTART DOC. 7112B (2030044) 02.16

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Specifications subject to change without notice.

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4 Adding the CEN-NVS200 to Your Crestron System

To add the CEN-NVS200 to your Crestron® system, perform the steps in either Option 1 or Option 2:

- Option 1 uses the Crestron VisionTools® application for programming and provides streaming video capabilities only.
- Option 2 uses both SIMPL Windows and VT Pro-e programming and provides streaming video, touch screen control of PTZ cameras, control system response for digital I/O, motion detection, and video detection.

Option 1: VT Pro-e® Application Programming Only

1. In the *ProjectView* tab for the touch screen, open the Embedded Applications folder, and then double-click MJPEG Viewer to open the "MJPEG Viewer Embedded Application Properties" window.
2. Click the *Camera Controls* tab.
3. Enter the IP address, port number, and HTTP command into the appropriate fields, and then click **OK**.

NOTE: For the HTTP command, enter the viewer name and viewer password assigned when creating a viewer user account in section 3, step C4 on the reverse side of this guide. For example, if the viewer name is *MyViewer* and the password is *viewmycamera*, enter the following:

http://192.168.194.185/video3.mjpg?user=MyViewer&pw=viewmycamera

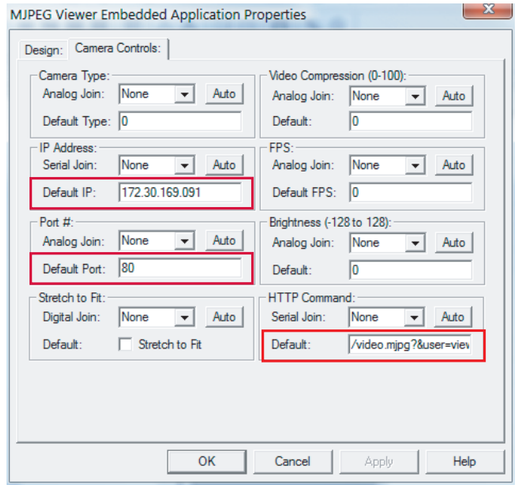
NOTE: The URL will change depending on which video is desired. URLs can be found on the "System" configuration page.

Crestron MJPEG Viewer

Please use the following URL to stream to the Crestron MJPEG Viewer
Stream3: http://172.30.176.39/video3.mjpg?user=admin&pw=[secretpassword]
Stream4: http://172.30.176.39/video4.mjpg?user=admin&pw=[secretpassword]

4. Save the project.

"MJPEG Viewer Embedded Applications Properties" Window

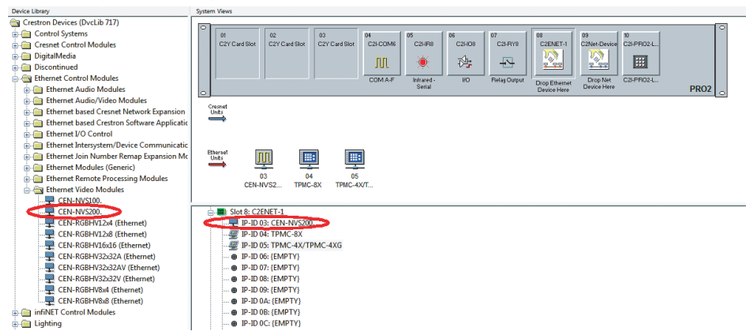


Option 2: SIMPL Windows and VT Pro-e Programming

SIMPL Windows Programming

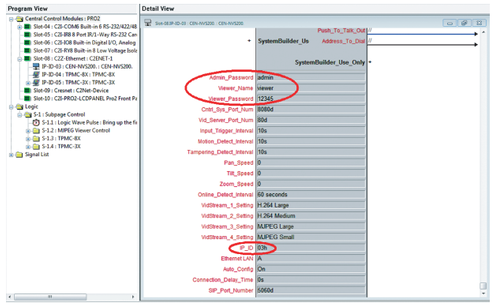
1. Drag the CEN-NVS200 from the **Ethernet Control Modules | Ethernet Video Modules** folder of the *Device Library* and drop it in the *System Views*.

Device Library and Sample System Views



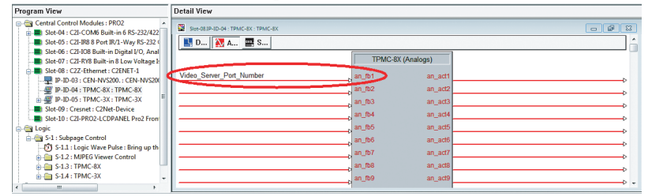
2. Double-click the CEN-NVS200 in the system tree to open the "Device Settings" window, and then set the IP address of the CEN-NVS200 (use the IP address set in section 3, step D2). If desired, also change the IP ID of the CEN-NVS200.
3. In the *Program View* section of the window, select the CEN-NVS200.
4. In the *Detail View* section, enter data into the following text boxes:
   - *Admin_Password* (Use the administrator password entered in section 3, step C2)
   - *Viewer_Name* (Use the user name entered in section 3, step C4)
   - *Viewer_Password* (Use the password entered in section 3, step C4)
   - *IP_ID* (Use the IP ID assigned to the symbol)

CEN-NVS200 Module Parameters

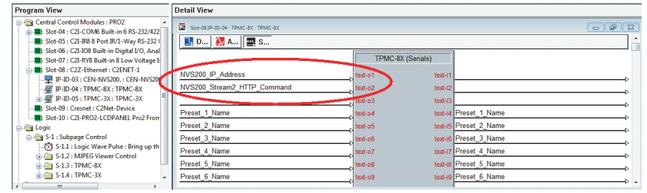


5. Connect the CEN-NVS200 module outputs (*Video_Server_Port_Number*, *NVS200_IP_Address*, *NVS200_Stream2_HTTP_Command*, and all others required for your application) to the touch screen definition.

Sample TPMC-8X Port Number Analog Join



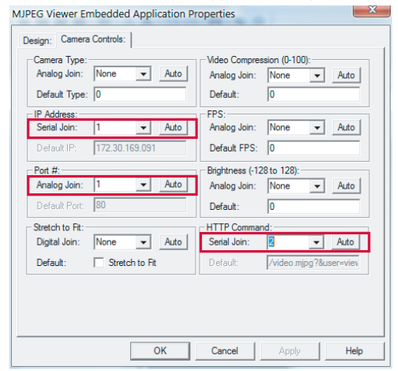
Sample TPMC-8X IP Address and HTTP Command Serial Joins



VT Pro-e Programming

1. In the *ProjectView* tab for the touch screen, open the Embedded Applications folder, and then double-click MJPEG Viewer to open the "MJPEG Viewer Embedded Application Properties" window.
2. Click the *Camera Controls* tab.
3. In the *IP Address*, *Port #*, and *HTTP Command* panes, set the join numbers using the same numbers assigned (in "SIMPL Windows Programming," step 5, above) in the SIMPL Windows program, and then click **OK**.
4. Save the project.

"MJPEG Viewer Embedded Application Properties" Window



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