CEN-NVS100

Network Video Streamer

1 Installing the CEN-NVS100
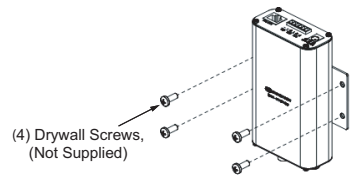
MOUNTING

A. Attach the Supplied Mounting Bracket.

Mounting Bracket
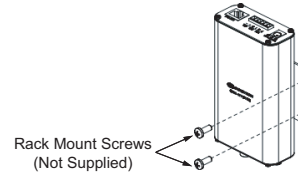
(4) Screws, M3 x 5mm
Phillips Flat Head
(Supplied)
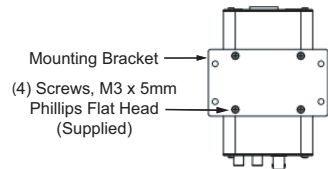
B. Mount the CEN-NVS100 to a Wall or to a Rack.

NOTE: The CEN-NVS100 must be installed in a temperature-controlled environment ranging from 32° to 104° F (0° to 40° C).

Wall Mounting:

(4) Drywall Screws,
(Not Supplied)

Rack Mounting:

Rack Mount Screws
(Not Supplied)

Mount the left or right side of the bracket to the front or rear rail of a rack (mounting of right side of bracket is shown).
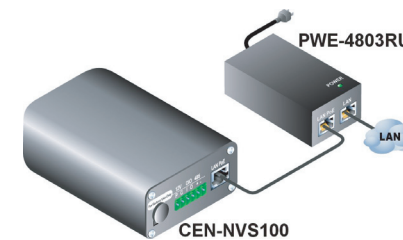
CONNECTIONS

(Front) Video Connection

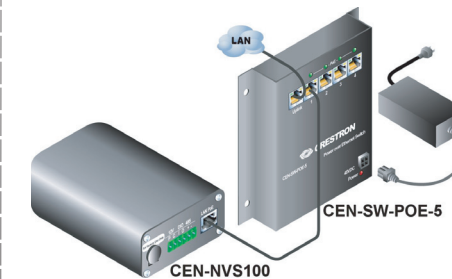If necessary, use the supplied BNC-to-RCA adapter to connect to the camera.

VIDEO CAMERA

(Rear) Power over Ethernet (PoE) Connection

Connection to Crestron® PoE Injector (Part No. PWE-4803RU)

PWE-4803RU

LAN

CEN-NVS100

Connection to Crestron PoE Switch (Part No. CEN-SW-POE-5 Shown)

LAN

CEN-SW-POE-5

CEN-NVS100

Connection to Third-Party PoE Power Source. For installation information, refer to the third-party device documentation.

**NOTE:** By default, the CEN-NVS100 uses DHCP.

(Rear, Optional) 6-pin Terminal Block Connection

Using the supplied terminal block mating connector, connect the 6-pin terminal block to external devices such as an alarm, sensor, and PTZ camera.

12V DIO 485
P C I O + −

P = (For factory use only)
C = Common
I = Digital Input
O = Digital Output
+ = RS-485, T+/R+
− = RS-485, T-/R-

For Future or Factory Use Only

(For Future Use)   (For Factory Use Only)
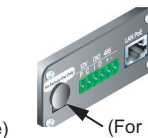
2 Configuring the CEN-NVS100

A. Access the Configuration Web Pages.

1. In the Device Discovery Tool of Crestron Toolbox™, select **Crestron CEN-NVS100.** The home page of the CEN-NVS100 opens.

CEN-NVS100 Home Page (Default)

2. Select **Configuration.** The "System" configuration page opens (refer to Step B).
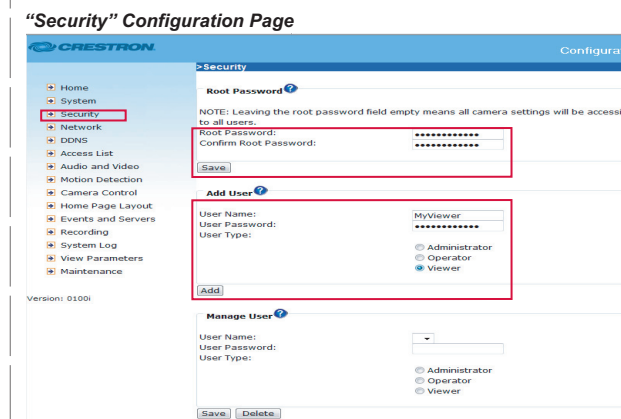
B. (Optional) Configure System Settings.

1. On the "System" configuration page, modify the default host name, **CEN-NVS100**, using a name that is meaningful for your environment.

2. Configure DI (Digital Input) and DO (Digital Output) settings.
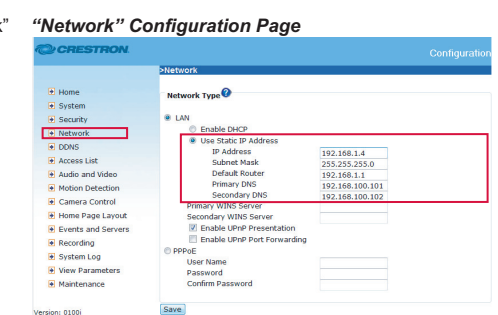
3. Click **Save.**

"System" Configuration Page
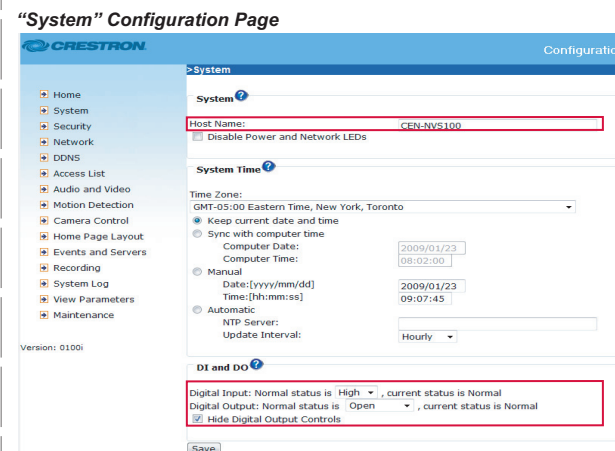
C. Configure Security Settings.

1. Click **Security.** The "Security" configuration page opens.

2. In the *Root Password* pane, assign an administrator password and then click **Save** at the bottom of the pane. A log-in window appears.

3. Enter *root* as the user name, and then enter the password you entered in step 2.

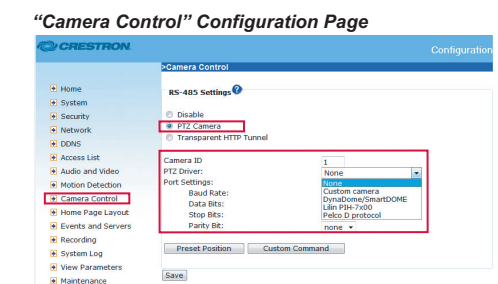4. In the *Add User* pane, create a user account whose user type is set to **Viewer**, and then click **Add.**

"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

IP Address   192.168.1.4
Subnet Mask   255.255.255.0
Default Router   192.168.1.1
Primary DNS   192.168.100.101
Secondary DNS   192.168.100.102

E. (Optional) Configure Camera Control Settings.

1. Click **Camera Control.** The "Camera Control" configuration page opens.

2. Click **PTZ Camera**, and then configure the camera settings as required.

3. Click **Save.**

"Camera Control" Configuration Page

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CRESTRON®

quickstart guide

③ Adding the CEN-NVS100 to Your Crestron System

To add the CEN-NVS100 to your Crestron system, perform the steps in **Option 1** or **Option 2:**

- **Option 1** uses VisionTools® Pro-e (VT Pro-e) programming and provides streaming video capabilities only.
- **Option 2** uses both SIMPL Windows and VT Pro-e programming and provides the following capabilities: streaming video, touchpanel control of PTZ cameras, control system response for digital I/O, motion detection, and video detection.
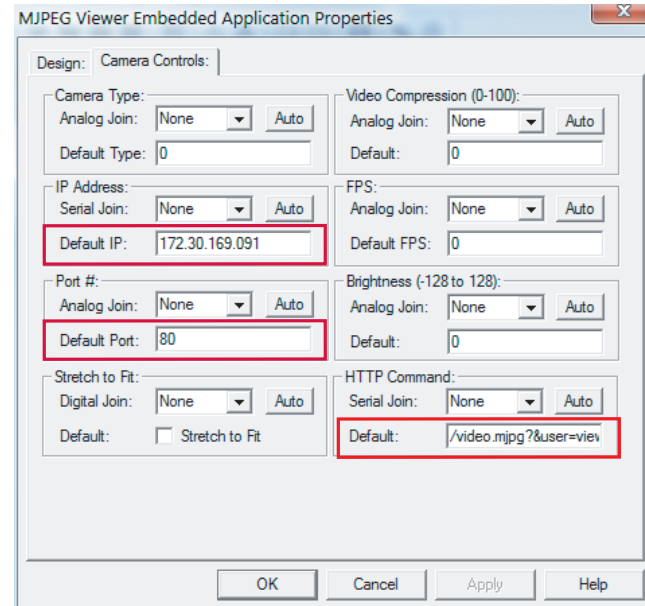
Option 1: VT Pro-e Programming Only

A. For the desired touchpanel in the *ProjectView* tab, open the *Embedded Applications* folder and then double-click **MJPEG Viewer** to open the "MJPEG Viewer Embedded Application Properties" window.

B. Click the *Camera Controls* tab.

C. 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 ②, step C4 of this guide. For example, if the viewer name is *MyViewer* and the password is *viewmycamera,* enter the following:
>
> */video.mjpg?user=MyViewer&pw=viewmycamera*

D. Save the project.

"MJPEG Viewer Embedded Application Properties" Window
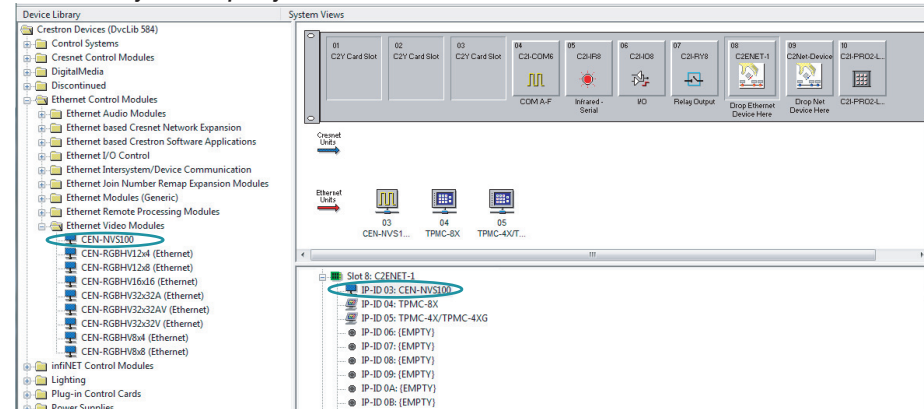

Option 2: SIMPL Windows and VT Pro-e Programming

SIMPL Windows Programming:

A. From the *Ethernet Control Modules | Ethernet Video Modules* folder of the *Device Library,* drag the CEN-NVS100 into the *System Views.*
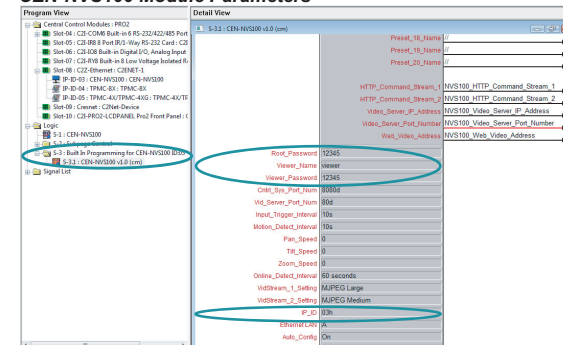
Device Library and Sample System Views

B. Double-click the CEN-NVS100 in the system tree to open the "Device Settings" window, and then set the IP address of the CEN-NVS100 (use the IP address set in section ②, step D2). If desired, also change the IP ID of the CEN-NVS100.

C. In the *Logic* folder of *Program View,* select the *Built In Programming for CEN-NVS100* subfolder.

D. In the *Detail View,* enter data into the following text boxes:

- *Root_Password* (use the root password entered in section ②, step C2)
- *Viewer_Name* (use the name entered in section ②, step C4)
- *Viewer_Password* (use the password entered in section ②, step C4)
- *IP_ID* (use the IP ID assigned to the CEN-NVS100)

CEN-NVS100 Module Parameters

E. Connect the CEN-NVS100 module outputs (*Video_Server_Port_Number, HTTP_Command_Stream_1, Video_Server_IP_Address,* and all others required for your application) to the touchpanel definition.

Sample TPMC-8X Port Number Analog Join
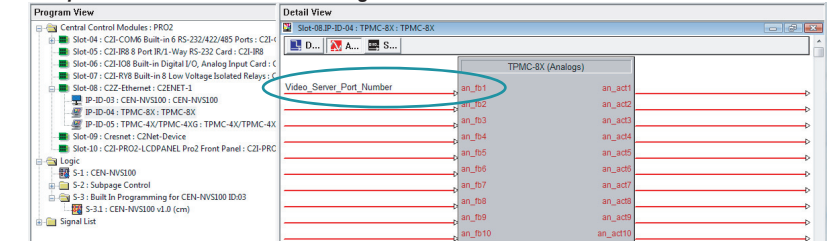
Sample TPMC-8X IP Address and HTTP Command Serial Joins
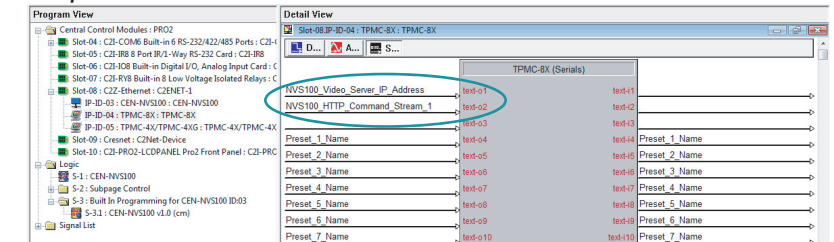
VT Pro-e Programming:

A. For the desired touchpanel in the *ProjectView* tab, open the *Embedded Applications* folder and then double-click **MJPEG Viewer** to open the "MJPEG Viewer Embedded Application Properties" window.

B. Click the *Camera Controls* tab.

C. In the *IP Address, Port #,* and *HTTP Command* panes, set the join numbers using the same numbers assigned in step E (above) of the "SIMPL Windows Programming" section, and then click **OK.**

D. Save the project.

"MJPEG Viewer Embedded Application Properties" Window

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