Extron NAV E 101 DTP NAV System User Guide

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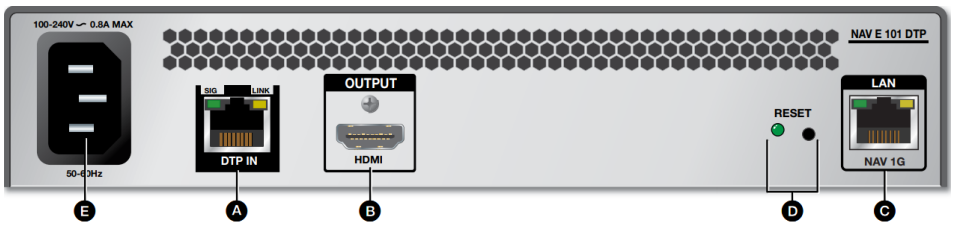
Installation

Step 1 — Mounting

Turn off or disconnect all equipment power sources and mount the NAV E 101 DTP as required.

Step 2 — Rear Panel Connections



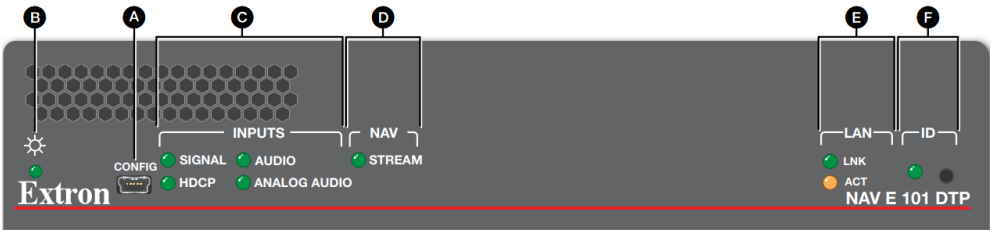
A DTP input port — Plug a compatible Extron DTP signal into this RJ-45 port using a TP cable. See TP connectors on page 5 to wire the connectors.

ATTENTION:

- Do not connect this port to a computer data or telecommunications network.

NOTE: The encoder can supply power to the connected DTP transmitter, such as a DTP 330 Tx, via power over DTP.
B HDMI Output port — Connect a display to this female HDMI connector for local loop-through monitoring of the source signal. See LockIt® Lacing Bracket on page 5 to securely fasten the HDMI connectors to the encoder.
C NAV 1G port — Connect to an Ethernet LAN on which one or more decoders also reside for streaming and control.
D Reset button and LED — This button initiates three modes of reset. See the NAV E 101 DTP User Guide, available at www.extron.com, for details.
E Power connector — Plug the encoder into a grounded AC source.

Step 3 — Front Panel Configuration Port Connection



A Configuration port — Plug a PC or other controlling device into the NAV E 101 DTP via this front panel mini-USB connector for configuration of the encoder. The port uses IP over USB technology; the IP address is always 203.0.113.22 and CANNOT be changed. The CONFIG port is also discoverable via Toolbelt (see the NAV E 101 DTP User Guide; the guide and Toolbelt are available for download at www.extron.com).

Indicators

B Power LED — Indicates power and startup status.

- Blinking — The unit is receiving power and is booting up.
- Lit steadily — The unit is receiving power and is operational.

C Input LEDs — Indicates status of the signal input.

- Signal — The encoder is receiving a DTP input.
- HDCP — The DTP signal is HDCP encrypted.
- Audio — The embedded digital audio input is selected.
- Analog Audio — The analog audio input is selected.

D NAV Stream LED — Indicates the output status of A/V stream.

- Lit steadily – The encoder is actively streaming a NAV output consisting of video, audio, or both to one or more NAV decoders.

- Blinking – The encoder is actively streaming a NAV output, but network errors are present.

E LAN LEDs — Indicates status of the network connection.

- Link — Lit steadily indicates that a network link is established. Blinking indicates a link speed less than 1G.
- Act — Blinking indicates network traffic. The blink rate corresponds to activity.

F ID button and LED — The recessed ID button identifies the encoder to the NAVigator and decoder when pressed. The LED blinks when the encoder is in pairing mode (see Pairing devices via front panel on page 5 for details).

Operation

Power

When the encoder is powered up (see figure 1, E on page 1), the encoder runs a series of self-tests that blink the front panel Power LED and all other indicators. The encoder then boots the NAV operating system. It can take approximately 45 seconds for self-test and system startup to complete. When the process is complete, the Power LED lights steadily.

NOTE: The encoder is NOT operational until the boot process is complete (the Power LED is lit steadily).

System Operation

The encoder can be configured and controlled using embedded web pages or Extron Toolbelt (see the NAV E 101 DTP User Guide available at www.extron.com and the Toolbelt Help file).

Connection via web pages

Connection to the encoder and its embedded web pages can be made via either the front panel Configuration (USB) port (using IP over USB technology) (see figure 2, A on page 2) or the rear panel NAV 1G port (see figure 1, C on page 1).
Access the encoder using HTML pages as follows:

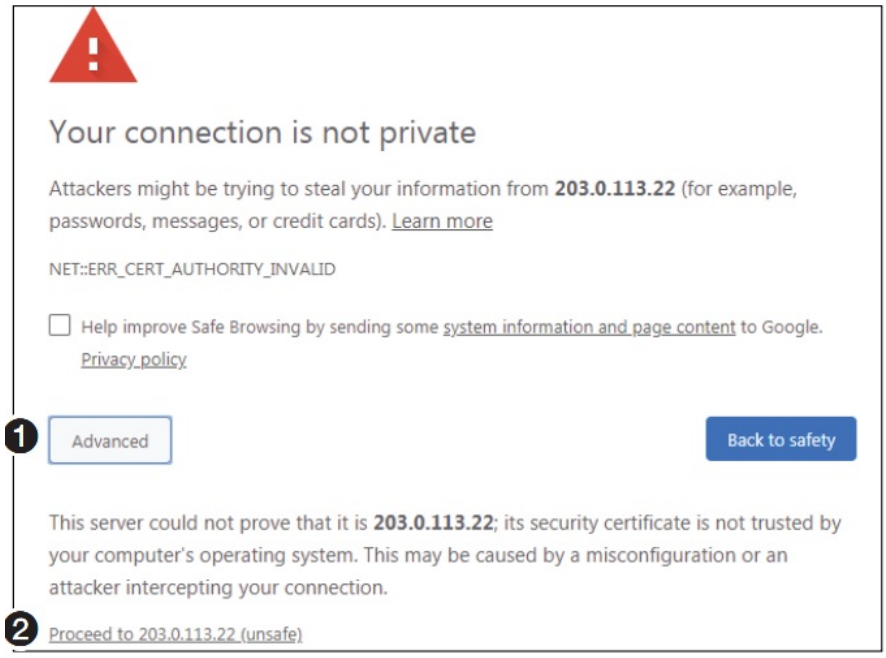
1. Open a web browser.

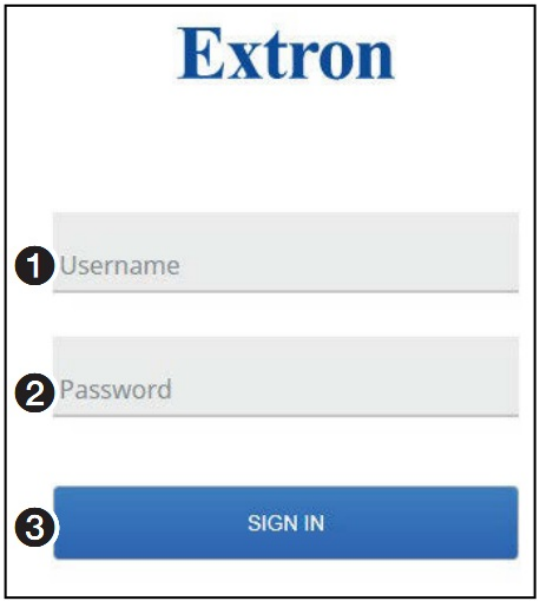
   NOTES:

   - Suggested browsers to fully support the NAV system are: Google Chrome™, Mozilla® Firefox®, and Microsoft® Edge™.
   - The network must be properly configured for multicasting (IGMP). Failure to do so may result in degraded performance.
2. Enter the IP address of the encoder in the browser Address field **Default settings**

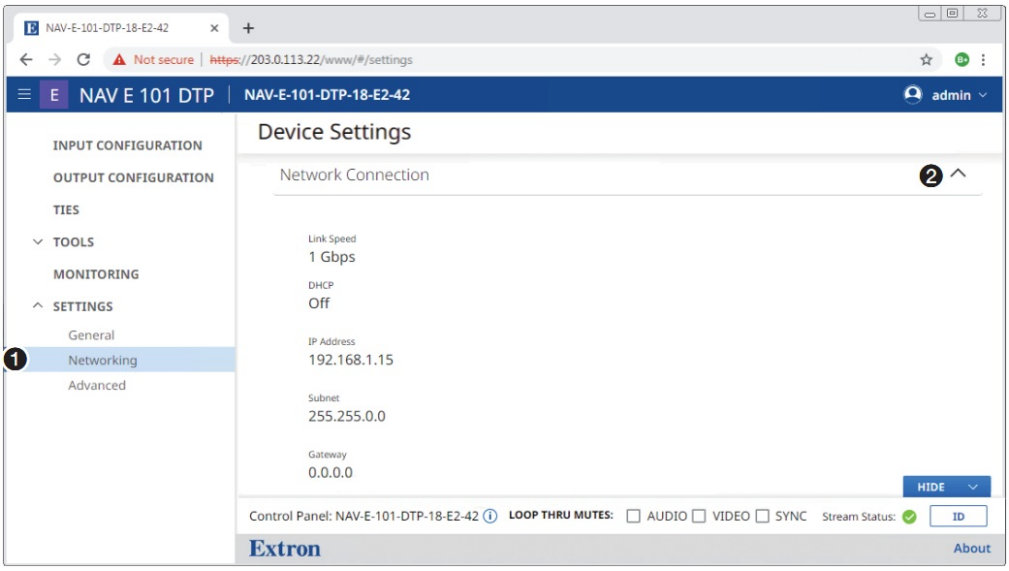
Port	DHCP	IP address	Subnet mask
Config (USB)*		203.0.113.22	
NAV 1G (RJ-45)†	On		

3. Press the keyboard key. The browser displays a privacy error message (see figure 3 for an example in the Chrome browser).





4. Click Advanced (see figure 3, 1). The button changes to Hide Advanced and explanatory text and a link appear below the button.
5. Click Proceed to (unsafe) (2). The browser opens to the Login dialog box (see figure 4).
6. Enter the Username (see figure 4, 1) and Password (2) and click SIGN IN (3). The browser opens to the home page of the embedded encoded web pages (see figure 5 on page 4).



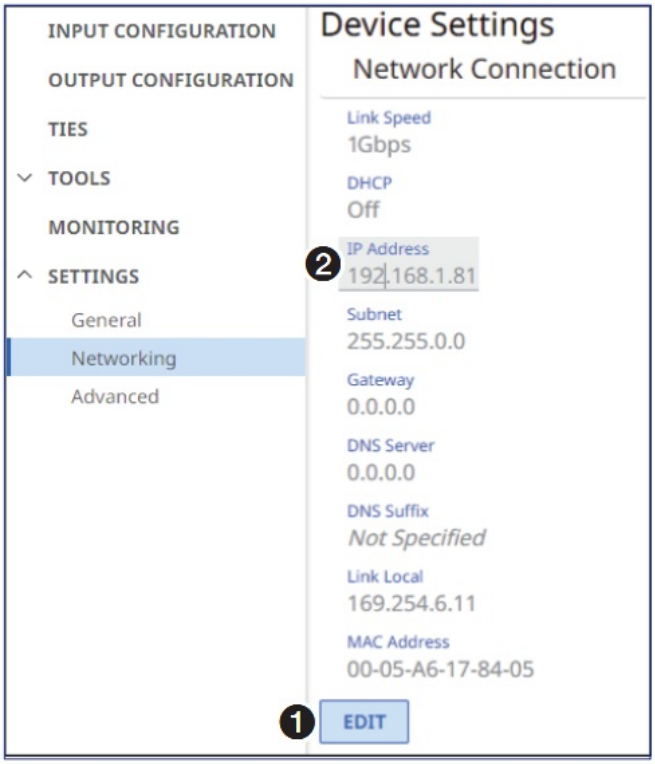
NOTE: Detailed descriptions of communication, configuration, and monitoring are provided in the NAV E 101 DTP User Guide, available at **www.extron.com.**

Connection settings

View and change connection settings as follows:

1. On the home page, click Settings (see figure 5, 1) > Networking.
2. Click the Network Connection drop-down menu (2). The Network Connection pane opens (see figure 6), showing protected views of the network connection settings.

   NOTE: Editing of connection settings is disabled when the device is assigned to an Extron NAVigator System Manager.
3. To change the settings, click Edit (see figure 6, 1). The Edit button changes to Save.
4. Click in the desired field (2) and edit it as desired.
5. Repeat step 4 as necessary for other values.
6. Click Save.



Pairing devices via front panel

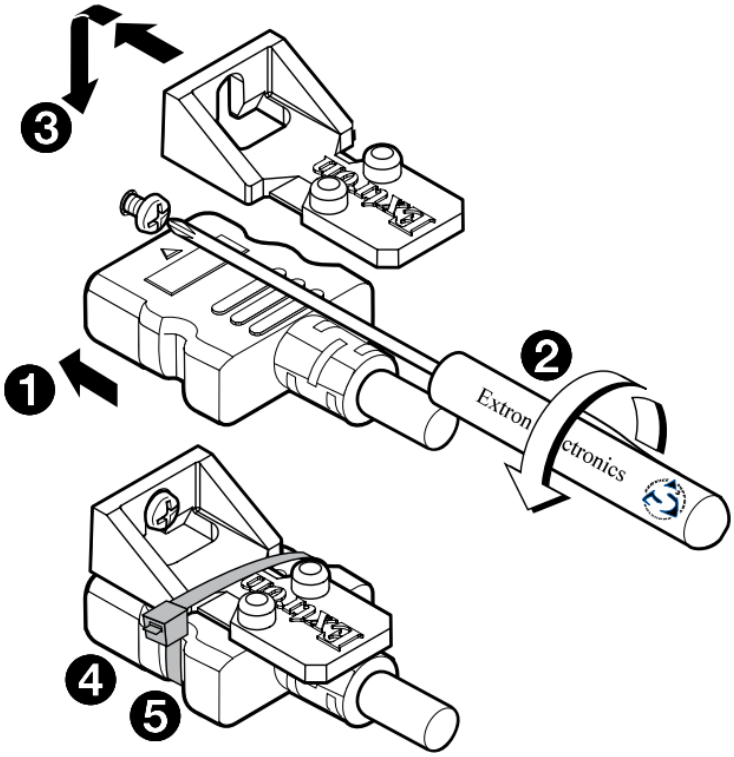
Pair devices from the front panel as follows:

1. Use a Tweeker or other small screwdriver to press and hold the encoder front panel ID button for approximately 3 seconds, until the ID LED blinks. The encoder enters pairing mode, which allows decoders to receive AV streams from encoders.
2. One at a time, use a Tweeker or other small screwdriver to press and hold the decoder front panel ID button for approximately 3 seconds, until the ID LED blinks three times. The decoder is now paired to the encoder.
3. Repeat step 2 for each decoder.
4. Use a Tweeker or other small screwdriver to press and release the encoder front panel ID button. The encoder exits pairing mode.
5. Repeat steps 1 through 4 to pair decoders to other encoders.
   After all devices are connected, powered on, and paired, the system is fully operational

Connection Details

LockIt Lacing Bracket

1. Plug the HDMI cable into the panel connection (see 1, at right).
2. Loosen the HDMI connection mounting screw from the panel enough to allow the LockIt lacing bracket to be placed over it (2). The screw does not have to be removed.
3. Place the LockIt lacing bracket on the screw and against the HDMI connector (3), then tighten the screw to secure the bracket.



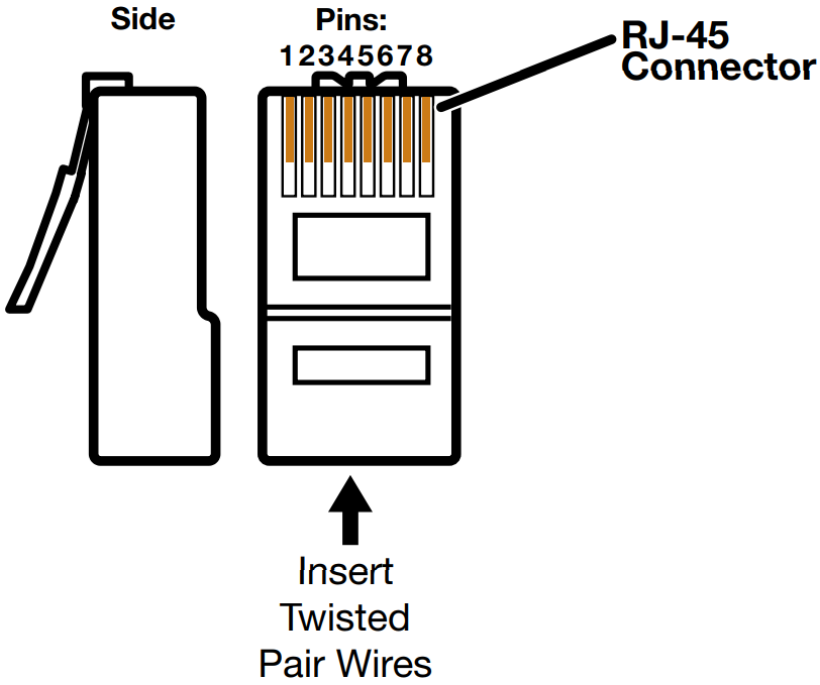
ATTENTION:

• Do not overtighten the HDMI connector mounting screw. The shield it fastens to is very thin and can easily be stripped.

• Ne serrez pas trop la vis de montage du connecteur HDMI. Le blindage auquel elle est attachée est très fin et peut facilement être dénudé.

4. Loosely place the included tie wrap around the HDMI connector and the LockIt lacing bracket (4).
5. While holding the connector securely against the lacing bracket, use pliers to tighten the tie wrap, then remove any excess length (5)

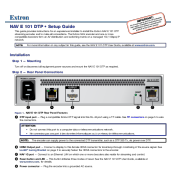
TP connectors



Pin	TIA/EIA T 568BWire color
1	White-orange
2	Orange
3	White-green
4	Blue
5	White-blue
6	Green
7	White-brown
8	Brown

For information on safety guidelines, regulatory compliances, EMI/EMF compatibility, accessibility, and related topics, see the Extron Safety and Regulatory Compliance Guide on the Extron website

Documents / Resources

	**Extron NAV E 101 DTP NAV System** [pdf] User Guide NAV E 101 DTP, NAV E 101 DTP NAV System, NAV System

References

- **Extron - The AV Technology Leader**