

TouchLink Pro Touchpanels

TLP Pro 1225, 1525, and 1725 Series

TouchLink Pro Touchpanel Control Systems



Extron

Safety Instructions

Safety Instructions • English

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ATTENTION: This symbol, , when used on the product, is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.

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Instrucciones de seguridad • Español

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Instructions de sécurité • Français

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ATTENTION : Ce pictogramme, , lorsqu'il est utilisé sur le produit, signale à l'utilisateur des instructions d'utilisation ou de maintenance importantes qui se trouvent dans la documentation fournie avec l'équipement.

Pour en savoir plus sur les règles de sécurité, la conformité à la réglementation, la compatibilité EMI/EMF, l'accessibilité, et autres sujets connexes, lisez les informations de sécurité et de conformité Extron, réf. 68-290-01, sur le site Extron, www.extron.com.

Istruzioni di sicurezza • Italiano

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安全上のご注意 • 日本語

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안전 지침 • 한국어

경고: 이 기호 ⚠ 가 제품에 사용될 경우, 제품의 인클로저 내에 있는 접지되지 않은 위험한 전류로 인해 사용자가 감전될 위험이 있음을 경고합니다.

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안전 가이드라인, 규제 준수, EMI/EMF 호환성, 접근성, 그리고 관련 항목에 대한 자세한 내용은 Extron 웹 사이트(www.extron.com)의 Extron 안전 및 규제 준수 안내서, 68-290-01 조항을 참조하십시오.

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FCC Class A Notice

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. The Class A limits provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause interference. This interference must be corrected at the expense of the user.

NOTES:

- This unit was tested with shielded I/O cables on the peripheral devices. Shielded cables must be used to ensure compliance with FCC emissions limits.
- For more 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.

Battery Notice

This product contains a battery. **Do not open the unit to replace the battery.** If the battery needs replacing, return the entire unit to Extron (for the correct address, see the [Extron Warranty](#) section on the last page of this guide).

CAUTION: Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

ATTENTION : Risque d'explosion. Ne pas remplacer la pile par le mauvais type de pile. Débarrassez-vous des piles utilisées selon le mode d'emploi.

Conventions Used in this Guide

Notifications

In this user guide, the following are used:

WARNING: Potential risk of severe injury or death.

AVERTISSEMENT : Risque potentiel de blessure grave ou de mort.

CAUTION: Risk of minor personal injury.

ATTENTION : Risque de blessure mineure.

ATTENTION:

- Risk of property damage.
- Risque de dommages matériels.

NOTE: A note draws attention to important information.

Software Commands

NOTE: For commands and examples of computer or device responses mentioned in this guide, the character “Ø” is used for the number zero and “O” represents the capital letter “o”.

Directory paths that do not have variables are written in the font shown here:

Reply from 2Ø8.132.18Ø.48: bytes=32 times=2ms TTL=32

C:\Program Files\Extron

Variables are written in slanted form as shown here:

ping xxx.xxx.xxx.xxx -t

SOH R *Data* STX *Command* ETB ETX

Selectable items, such as menu names, menu options, buttons, tabs, and field names are written in the font shown here:

From the **File** menu, select **New**.

Click the **OK** button.

Specifications Availability

Product specifications are available on the Extron website, www.extron.com.

Extron Glossary of Terms

A glossary of terms is available at www.extron.com/technology/glossary.aspx.

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Introduction

This guide describes the function, installation, and operation of the following Extron Touchlink Pro Touchpanels:

- TLP Pro 1225MG
- TLP Pro 1525MG
- TLP Pro 1725MG
- TLP Pro 1225TG
- TLP Pro 1525TG
- TLP Pro 1725TG

Unless otherwise stated, the terms “touchpanel” or “TLP Pro” refer to any of the six models.

The touchpanels are ideal for any AV applications requiring large touchpanels with flexible mounting options and fully customizable interfaces.

This section covers the following topics:

- [About the TLP Pro 1225, 1525, and 1725 Series](#)
- [Features](#)
- [Application Diagram](#)
- [Requirements](#)

About the TLP Pro 1225, 1525, and 1725 Series

The TLP Pro 1225 Series touchpanels have 12.1 inch screens with a resolution of 1280x800.

The TLP Pro 1525 Series touchpanels have 15.6 inch screens with a resolution of 1366x768.

The TLP Pro 1725 Series touchpanels have 17.3 inch screens with a resolution of 1920x1080.

The MG models (TLP Pro 1225MG, TLP Pro 1525MG, and TLP Pro 1725MG) are wall-mountable. The TG models (TLP Pro 1225TG, TLP Pro 1525TG, and TLP Pro 1725TG) have a weighted base that can be tilted, which allows them to stand on any suitable table or desktop. A range of mounting options are available for all the models (see [Mounting](#) on page 27).

The screen layout is designed with the Extron GUI Designer software. The functions are assigned to the screen objects with the Extron Global Configurator Plus and Professional or Global Scriptor software. This provides versatility and adaptability to the configuration and control of an AV system.

A motion sensor, a light sensor, and a speaker provide sleep mode, auto dimming, and audible feedback.

Features

- **Capacitive touchscreen with 16 million colors** — Vibrant, edge-to-edge glass display with a more responsive control surface
- **Ultra-fast quad-core processor** — For quick page loads.
- **Full motion video preview and monitoring** — With HDMI and XTP inputs
- **Compatible with the full range of Extron IP Link Pro control processors and HC 400 Series systems** — Allows easy integration into existing systems
- **Power over Ethernet** — The touchpanel is powered directly by a PoE+ switch or injector, eliminating the need for bulky local power supplies.
- **Built-in speakers provide stereo audio** — For video preview and audible feedback from button presses.

- **3.5 mm headphone jack** — Provides local audio out from the touchpanel.
- **Light sensor** — Adjusts screen brightness as the ambient room lighting changes.
- **Configurable red and green status lights** — Indicate the availability or call status of a room.
- **Two high speed USB 2.0 ports** — For future expansion
- **Automatic clock synchronization** — Allows touchpanel to display the accurate time and date.
- **Energy-saving features** —
 - Adjustable sleep timer puts touchpanel into sleep mode
 - Motion detector wakes touchpanel
- **Mounting options for tilt models (TG models):**
 - Sit on a tabletop — weighted base allows up to 40° of tilt.
 - Threaded holes in baseplate allow for secure mounting to a table.
 - Kensington® lock support allows the touchpanels to be locked to a table or other flat surface.
 - Supports the optional SMA-1 Swivel Mount Adapter.
 - VESA FDMI Type D 100 mm mounting pattern standard can be used for VESA mounting.
- **Mounting options for wall-mount models (MG models):**
 - Mount on a wall, lectern, or any flat surface. The included mounting hardware enables multiple mounting options.
 - The optional back box, BB 700M can be used where local codes require a rear metal enclosure.
- **Fully customizable using Extron control system software** — GUI Designer combined with Global Configurator Plus, Global Configurator Professional, or Global Scripter.
- **Supports the Extron Control App.**
- **Manage, monitor, and control this device remotely** — Using GVE - GlobalViewer Enterprise Resource Management software

Application Diagram

The application diagram below shows the TLP Pro 1225MG. The other touchpanels described in this user guide can be used in similar configurations.

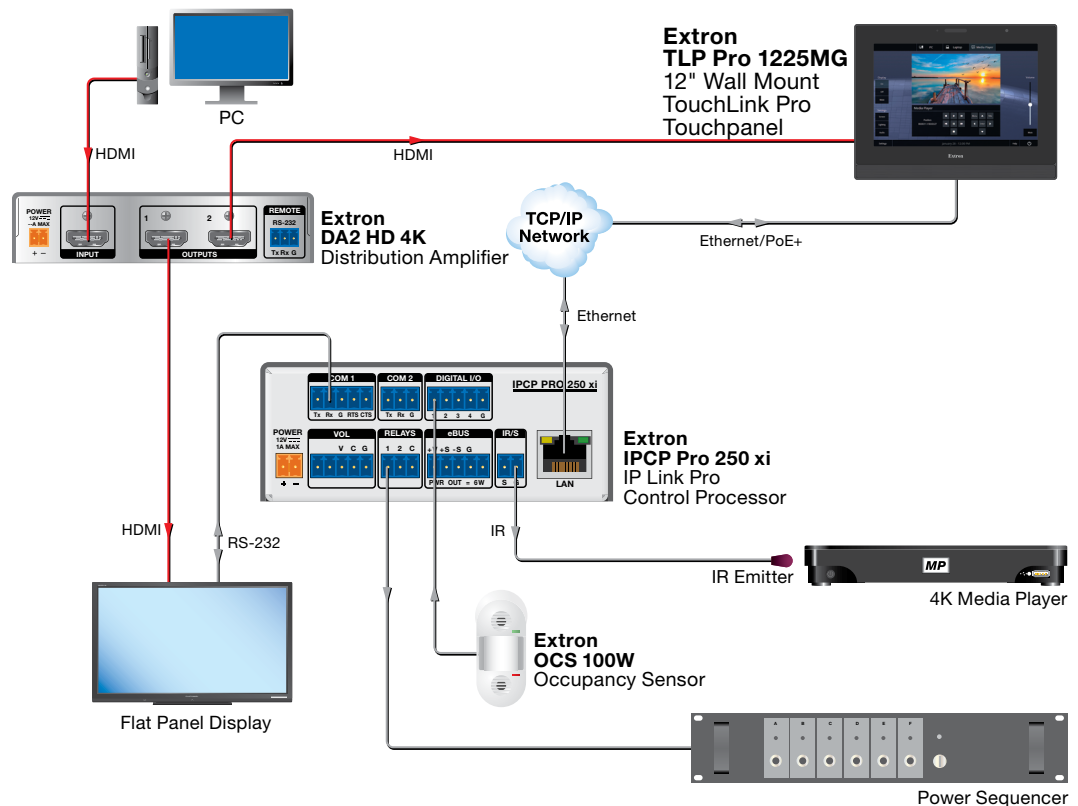


Figure 1. Application Diagram

Requirements

Software

For a complete list of the requirements for running GUI Designer, Global Configurator Plus and Professional, Global Scripter, and Toolbelt see the Extron web page for that software.

NOTE: These touchpanels are not compatible with Global Configurator 3 or GUI Configurator.

Hardware

An Extron IP Link Pro control interface must also be connected to the same network domain as the TouchLink panel. See www.extron.com for a list of suitable controllers.

NOTE: These touchpanels are not compatible with Extron IP Link (non-Pro) controllers.

Installation Overview

This section contains an overview of the installation process. Follow the links for a more detailed explanation of each step.

1. Before starting, download and install the latest versions of the following software:
 - ☐ **GUI Designer** — For designing layouts for Extron TouchLink Pro touchpanels and third party touch interfaces.
 - ☐ **Global Configurator Plus and Professional** — For setting up and configuring the control processor and touchpanel.
 - ☐ **Global Scripter** — Provides an integrated development environment for Extron control systems programming.
 - ☐ **Toolbelt** — Provides device discovery, device information, firmware updates, and configuration of network settings, system utilities, and user management for TouchLink Pro devices.

For more information, see [Using the Software](#) on page 23 or see the Extron web page for the software.

2. Obtain the following network information from your network administrator:
 - ☐ **Dynamic Host Configuration Protocol (DHCP)** status (on or off). If DHCP is off, you will also require:
 - ☐ **IP address**
 - ☐ **Subnet mask**
 - ☐ **Gateway**
 - ☐ **Username** — This can be either **admin** or **user**.
 - ☐ **Password** — The factory configured passwords for all accounts on this device have been set to the device serial number. Passwords can be changed during configuration. Passwords are case sensitive.

NOTE: If the device is reset to default settings, the password is the default password configuration. The default password is **extron** (for either **admin** or **user** accounts).

- ☐ **MAC address** — Make a note of the touchpanel MAC address, which can be found on the rear panel label (you need to remove the rear cover for TG models).
- ☐ **SSL security certificates and IEEE 802.1X authentication** — Extron touchpanels come with a factory-installed Secure Sockets Layer (SSL) security certificate. IEEE 802.1X authentication is also supported once enabled. See [Secure Sockets Layer \(SSL\) Certificates](#) on page 36 or [IEEE 802.1X Certificates](#) on page 36 for more information.

3. Mount and cable the units:

ATTENTION:

- Do not power on the touchpanels or control processors until you have read the Attention notice on [page 12](#).
- Ne branchez pas les écrans tactiles ou les contrôleurs avant d'avoir lu les mises en garde [page 12](#).

- ☐ Mount the units. There are several mounting options for TouchLink Pro touchpanels (see [Mounting](#) on page 27).

NOTE: If you use the setup menu to configure the wall-mount models, do not mount the unit before configuring them as you need access to the rear panel **Menu** button.

- ☐ Connect cables to the touchpanels (see [TLP Pro 1225, 1525, and 1725 Series Rear Panel Features](#) on page 8).
- ☐ Connect the power cords and power on all devices (see [XTP/LAN/PoE input](#) on page 10 or [Power supply input](#) on page 9).

NOTES:

- The TLP Pro 1225MG, 1525MG, and 1725MG models must be powered by Power over Ethernet.
- The TLP Pro 1225TG, 1525TG, and 1725TG models have the option to be powered by a 12 VDC power supply or Power over Ethernet.
- The TLP Pro 1725MG and TLP Pro 1725TG are shipped with an Extron PI 140 power injector supplied. For the other models a suitable power source must be purchased separately.

4. Set up the touchpanels for network communication:

- ☐ Connect the PC that you are using for setup, the control processor, and the touchpanel to the same Ethernet subnetwork.
- ☐ Use the [Setup Menu](#) (see page 14) or Toolbelt to set the DHCP status and, if necessary, the IP address, subnet mask, gateway, and related settings for the touchpanel.

5. Configure or program the Touchpanels — the *GUI Designer Help File*, the *Global Configurator Plus and Professional Help File*, the *Global Scriptor Help File*, and the *Toolbelt Help File* provide step-by-step instructions and detailed information.

The *Global Configurator Help File* also includes an introduction to that software, and sections on how to start and configure a project.

Global Scriptor provides an Extron-exclusive Python library (ControlScript) and Global Scriptor modules to get you started (see the *Global Scriptor Help File* for more information).

NOTE: Frequently touched devices, such as touchscreens, require regular cleaning to ensure their surfaces remain sanitary. Plastic surfaces and cosmetic finishes can be damaged by long term exposure to chemicals. For [Best Practices for Cleaning Your Extron Products](#), see page 33.

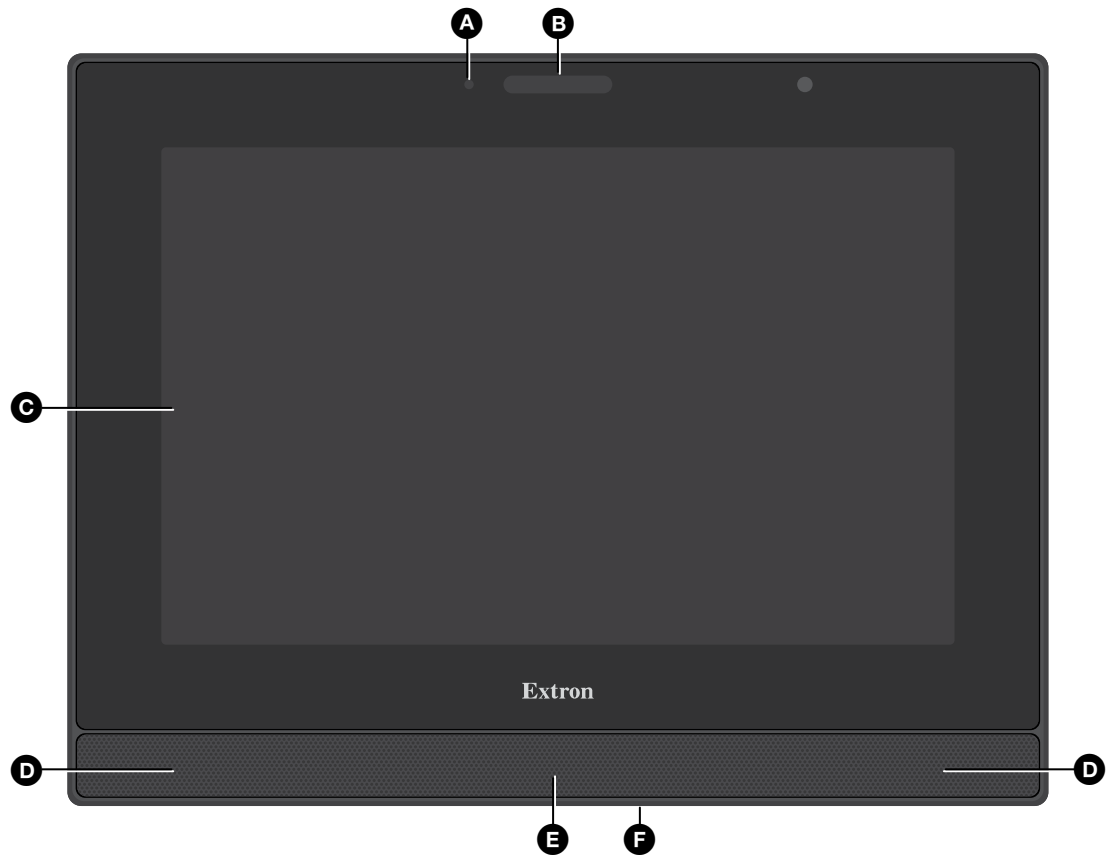
Panel Features

This section describes:

- [TLP Pro 1225, 1525, and 1725 Series Front Panel Features](#)
- [TLP Pro 1225, 1525, and 1725 Series Rear Panel Features](#)
- [Connecting Power](#)
- [Routing Cables \(TG Models\)](#)

TLP Pro 1225, 1525, and 1725 Series Front Panel Features

Figure 2 shows the TLP Pro 1225MG front panel. The TLP Pro 1525MG and 1725MG are very similar.



- A** [Ambient light sensor](#) (see page 7)
- B** [Status light](#)
- C** [Capacitive touch screen](#)
- D** [Speakers](#) (2)
- E** [Motion sensor](#)
- F** [Menu button](#) (MG models only)

Figure 2. TLP Pro 1225MG Front Panel

Figure 3 shows the TLP Pro 1225TG front panel. The TLP Pro 1525TG and 1725TG are very similar.

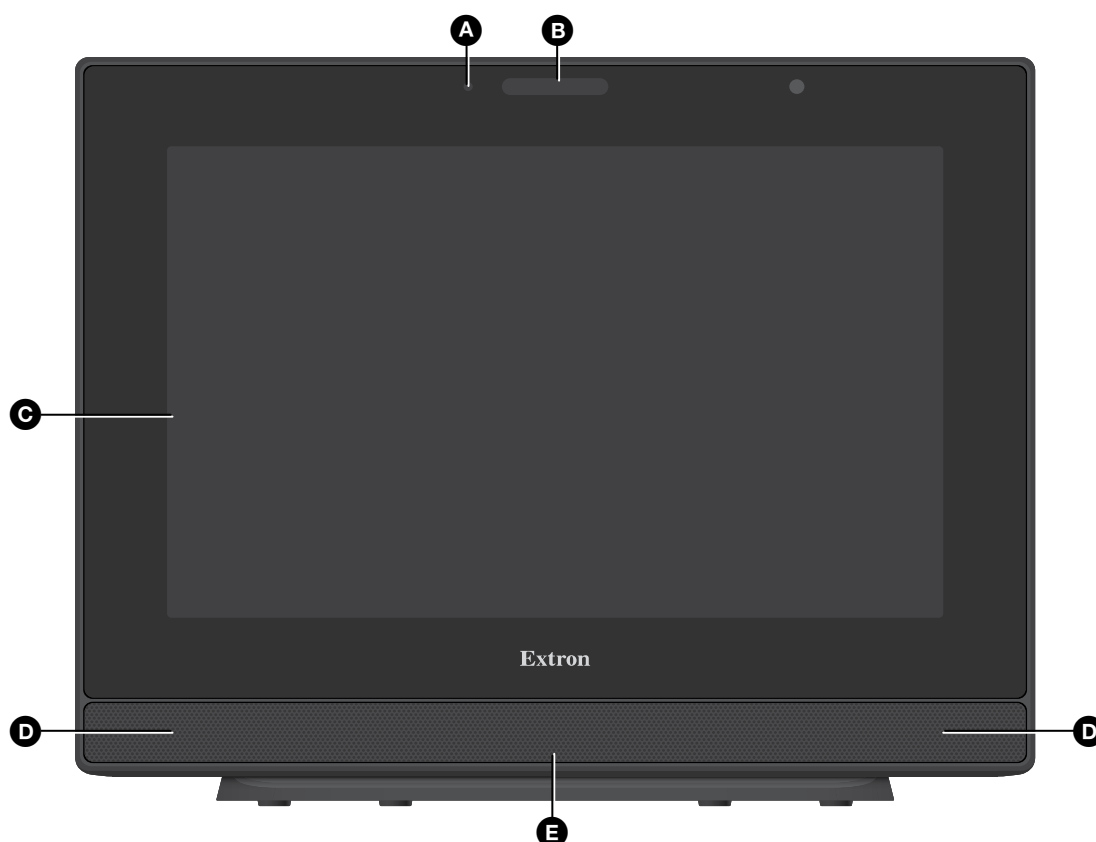


Figure 3. TLP Pro 1225TG Front Panel

The following callouts refer to both [figure 2](#) (see page 6) and figure 3. The links below take you to figure 2.

- A Ambient light sensor** — Monitors ambient light level and adjusts screen brightness, based on the settings configured using the Setup Menu.
- B Status light** — One LED light bar, above the screen, which can be programmed to provide system feedback. For information about programming this light, see the *Global Configurator Plus and Professional Help File* or the *Global Scripiter Help File*.
- C Capacitive touch screen** — With a touch overlay.
 - The TLP Pro 1225 series models have a 12.1 inch screen with a 1280x800 resolution.
 - The TLP Pro 1525 series models have a 15.6 inch screen with 1366x768 resolution.
 - The TLP Pro 1725 series models have a 17.3 inch screen with 1920x1080 resolution.
- D Speakers (2)** — Located below the screen, one on each side of the panel, provide stereo audio for video preview and audible feedback from button presses.
- E Motion sensor** — Detects motion between three to five feet from the touchpanel, and at least 15° from the center axis (see [Configuring the Motion Sensor](#) on page 17)
- F Menu Button** (MG models only) — Located under the touchpanel. It is used to activate the [Setup Menu](#) (see page 14).

TLP Pro 1225, 1525, and 1725 Series Rear Panel Features

Figure 4 shows the TLP Pro 1225MG rear panel. The TLP Pro 1525MG and 1725MG are very similar.

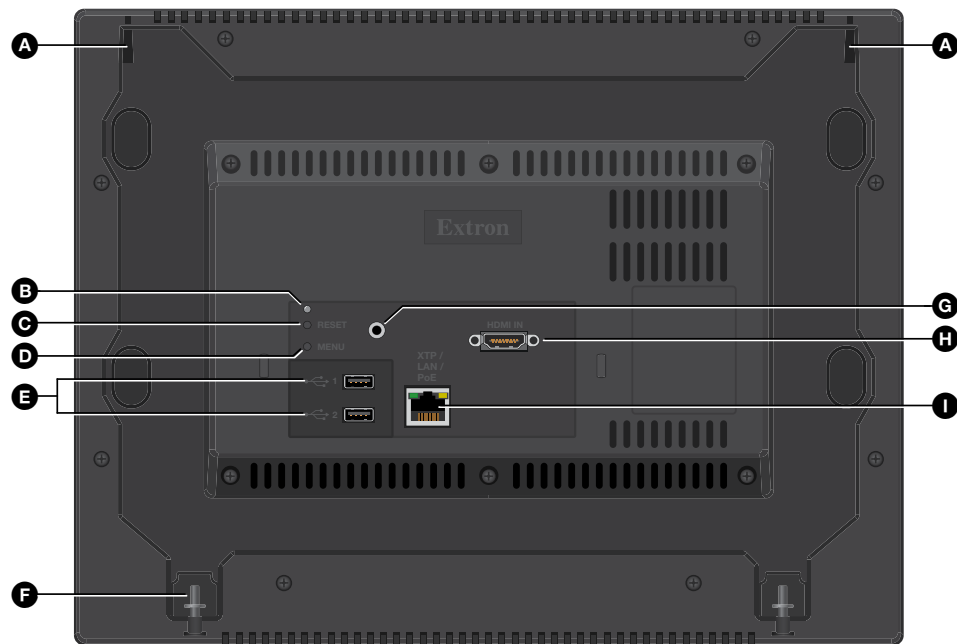


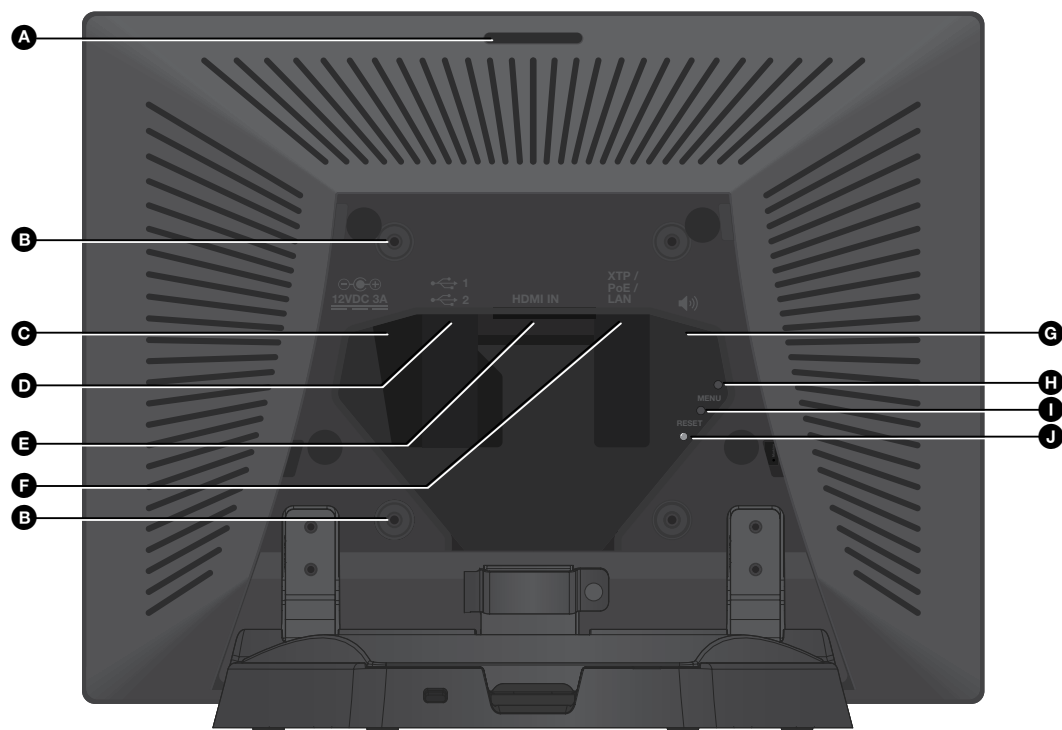
Figure 4. TLP Pro 1225MG Rear Panel

- A Mounting plate notches (2)** — Fit over the hooks at the top of the mounting plate (see [Wall Mounting](#) on page 28).
- B Reset LED** — Provides feedback about the reset status when the user presses the reset button.
- C Reset button** — Pressing the **Reset** button allows the unit to be reset in any of four different modes (see [Reset Modes](#) on page 34).
- D Menu button** — Activates the setup menu (see [Setup Menu](#) on page 14).
- E USB connectors (2)** — For peripheral controls.
- F Mounting screw slot (2)** — Insert the provided screws here. Secure the touchpanel to the mounting plate (see [Wall Mounting](#)).
- G Audio output** — For use with headphones or assistive listening devices.
- H HDMI input** — For alternative video input.
- I XTP/LAN/PoE input** — The TLP Pro 1725MG ships with the Extron PI 140 power injector provided. For the TLP Pro 1225MG or 1525MG, a power injector must be purchased separately.
 - **XTP input** — Connect the touchpanel to the XTP source using a twisted pair cable, terminated with an RJ-45 connector. For complete information about which cables to use, see the user guide for your XTP product.
 - **LAN input** — Connect the touchpanel to the LAN using a twisted pair cable, terminated with an RJ-45 connector.
 - **PoE input** — the connector can be used with a PoE power injector (see [Power over Ethernet](#) on page 11).

NOTE: Some XTP models are able to remotely power these touchpanels but not all have that capability. Go to the [Extron website](#) and check the product page for your XTP model to ensure it can power your touchpanel.

An Extron IP Link Pro control processor must also be connected to the same network as the TouchLink Pro touchpanel.

Figure 5 shows the TLP Pro 1225TG rear panel. The TLP Pro 1525TG and 1725TG are very similar.



- | | | |
|------------------------------|---|--|
| A Rear status light | E HDMI input | H Menu button (see page 10) |
| B Vesa mounting holes | F XTP/LAN/PoE input (see page 10) | I Reset button (see page 10) |
| C Power supply input | G Audio output (see page 10) | J Reset LED (see page 10) |
| D USB connectors | | |

Figure 5. TLP Pro 1225TG Rear Panel

- A Rear status light** — This LED light bar can be programmed to provide system feedback.
- B VESA mounting holes (4)** — For use with D-type VESA mounting kits with the 100 x 100 mm mounting pattern.
- C Power supply input** — Connect a 12 VDC, 3.0 A Limited Power Source (LPS) power supply to this DC plug connector.

NOTE: The TLP Pro 1225TG, 1525TG, and 1725TG models have the option to be powered by a 12 VDC power supply or Power over Ethernet.

ATTENTION:

- Do not power on the touchpanels until you have read the Attention notice on [page 12](#).
- Ne branchez pas les écrans tactiles avant d'avoir lu la mise en garde [page 12](#).

- D USB connectors (2)** — For peripheral controls.
- E HDMI input** — For alternative video input.

F XTP/LAN/PoE input (see [figure 5](#) on page 9)— The TLP Pro 1725TG ships with the Extron PI 140 power injector provided. For the TLP Pro 1225TG or 1525TG, a power injector must be purchased separately.

- **XTP input** — Connect the touchpanel to the XTP source using a twisted pair cable, terminated with an RJ-45 connector. For complete information about which cables to use, see the user guide for your XTP product.
- **LAN input** — Connect the touchpanel to the LAN using a twisted pair cable, terminated with an RJ-45 connector.
- **PoE input** — The connector can be used with a PoE power injector (see “Power over Ethernet”, below).

NOTE: Some XTP models are able to remotely power these touchpanels but not all have that capability. Go to the [Extron website](#) and check the product page for your XTP model to ensure it can power your touchpanel.

An Extron IP Link Pro control processor must also be connected to the same network as the TouchLink Pro touchpanel.

- G Audio output** — For use with headphones or assistive listening devices.
- H Menu button** — Activates the setup menu (see [Setup Menu](#) on page 14).
- I Reset button** — Pressing the reset button allows the unit to be reset in any of four different modes (see [Reset Modes](#) on page 34).
- J Reset LED** — Provides feedback about the reset status when the user presses the **Reset** button.

Connecting Power

The TLP Pro 1725MG and 1725TG ship with the Extron PI 140 power injector provided. For the TLP Pro 1225MG, 1225TG, 1525MG or 1525TG, a power injector must be purchased separately.

- The TLP Pro 1225MG, 1525MG, and 1725MG must be powered by a PoE power source.
- The TLP Pro 1225TG, 1525TG, and 1725TG can be powered by a PoE power source or by a 12 VDC power supply.

ATTENTION:

- Do not power on the touchpanels until you have read the Attention notice on [page 12](#).
- Ne branchez pas les écrans tactiles avant d'avoir lu la mise en garde [page 12](#).

12 VDC Power Supply

Connect a 12 VDC, 3 A power supply to the DC connector on the back of the TLP Pro 1225TG, 1525TG, and 1725TG models.

Power over Ethernet

Figure 6 shows the Extron PI 140. Your power injector may look different.

1. Connect a straight-through Ethernet cable from the power injector to a switch or router (❶). This cable carries network information from the switch or router to the power supply input.
2. Connect a second straight-through cable from the power injector to the XTP/PoE/LAN connector of the touchpanel (❷). This cable carries the network information and 48 VDC from the power injector to the touchpanel.
3. Connect the IEC power cord to a convenient 100 VAC to 240 VAC, 50-60 Hz power source (❸).

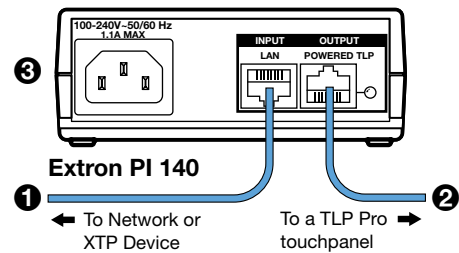


Figure 6. Connecting the Power Injector

Alternatively, use an Ethernet cable to connect the XTP/LAN/PoE+ port of the interface to a PoE+ switch or connect the touchpanel directly to an XTP model that is capable of remotely powering a touchpanel (see the [note](#) on page 10).

ATTENTION:

- Always use a power supply provided by or specified by Extron. Use of an unauthorized power supply voids all regulatory compliance certification and may cause damage to the supply and the end product.
 - Utilisez toujours une source d'alimentation fournie ou recommandée par Extron. L'utilisation d'une source d'alimentation non autorisée annule toute conformité réglementaire et peut endommager la source d'alimentation ainsi que le produit final.
- The installation must always be in accordance with the applicable provisions of National Electrical Code ANSI/NFPA 70, article 725 and the Canadian Electrical Code part 1, section 16.
 - Cette installation doit toujours être en accord avec les mesures qui s'applique au National Electrical Code ANSI/NFPA 70, article 725, et au Canadian Electrical Code, partie 1, section 16.
- These products are intended for use with a UL Listed power source marked "Class 2" or "LPS" and rated 12 VDC, minimum 3.0 A. or 56 VDC (PoE), minimum 0.8 A.
 - Ces produits sont destinés à une utilisation avec une source d'alimentation listée UL avec l'appellation « Classe 2 » ou « LPS » et normée 12 Vcc, 3,0 A minimum ou 56 Vcc (PoE), 0,8 A minimum.
- The power supply shall not be permanently fixed to the building structure or similar structure.
 - La source d'alimentation ne devra pas être fixée de façon permanente à une structure de bâtiment ou à une structure similaire.
- Unless otherwise stated, the AC/DC adapters are not suitable for use in air handling spaces or in wall cavities. The power supply is to be located within the same vicinity as the Extron AV processing equipment in an ordinary location, Pollution Degree 2, secured to the equipment rack within the dedicated closet, podium, or desk.
 - Sauf mention contraire, les adaptateurs AC/DC ne sont pas appropriés pour une utilisation dans les espaces d'aération ou dans les cavités murales. La source d'alimentation doit être située à proximité de l'équipement de traitement audiovisuel dans un endroit ordinaire, avec un degré 2 de pollution, fixé à un équipement de rack à l'intérieur d'un placard, d'une estrade, ou d'un bureau.
- Extron power supplies are certified to UL/CSA 60950-1 and are classified as LPS (Limited Power Source). Use of a non-LPS or unlisted power supply will void all regulatory compliance certification.
 - Les sources d'alimentation Extron sont qualifiées UL/CSA 60950-1 et sont classées LPS (Limited Power Source). L'utilisation d'une source d'alimentation non-listée ou non-listée LPS annulera toute certification de conformité réglementaire.
- The length of the exposed wires in the stripping process is critical. The ideal length is 3/16 inches (5 mm). If they are any longer, the exposed wires may touch, causing a short circuit between them. If they are any shorter, the wires can be easily pulled out even if tightly fastened by the captive screws.
 - La longueur des câbles exposés est primordiale lorsque l'on entreprend de les dénuder. La longueur idéale est de 5 mm (3/16 inches). S'ils sont un peu plus longs, les câbles exposés pourraient se toucher et provoquer un court circuit. S'ils sont un peu plus courts, ils pourraient sortir, même s'ils sont attachés par les vis captives.
- Do not tin the wire leads before installing into the connector. Tinned wires are not as secure in the connector and could be pulled out.
 - Ne pas étamer les conducteurs avant de les insérer dans le connecteur. Les câbles étamés ne sont pas aussi bien fixés dans le connecteur et pourraient être retirés.

Routing Cables (TG Models)

Organize cables behind the rear and base covers for a more aesthetically appealing appearance. The TLP Pro 1525TG is shown below but the TLP Pro 1225TG and 1725TG are very similar.

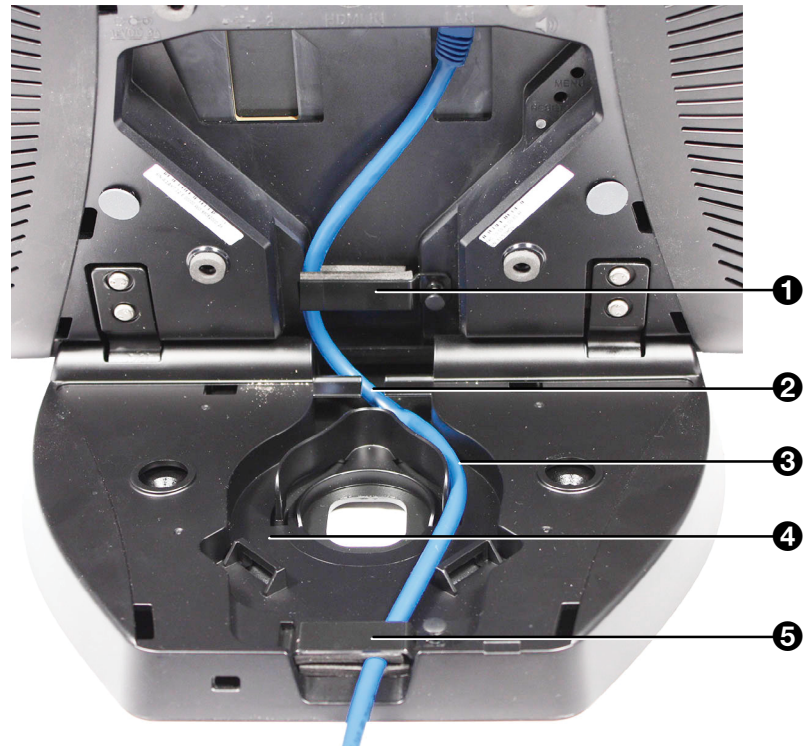


Figure 7. TLP Pro 1525TG Cable Organization

1. If necessary, remove the rear and base covers and connect the cables as required (see [Removing the Rear and Base Covers](#) on page 31).
2. Move the clamp at the back (1) to one side and run the cables through the restricted gap where the base and back meet (2).
3. If necessary, move the clamp on the base (5) to one side.
4. Run the cables through the raceways on either side of the center hole (3 and 4), and through the slot at the back of the base (5). Multiple cables can be loosely bundled to keep them organized.
5. Move the rear and base cable clamps back into position and press them down to secure them in place.
6. Put back the rear and base covers. The base cover must be inserted before the rear cover.

Setup Menu

The TLP Pro 1225, 1525, and 1725 series touchpanels can be set up by using the on-screen setup menu. This section provides information about accessing the **Setup Menu** and the six sub-menus:

Setup Menu

To open the setup menu, press the recessed **Menu** button, using a small screwdriver. The button can be found on the rear panel:

- MG models — see **figure 4, D**, on page 8.
- TG models — see **figure 5, H**, on page 9.
- The MG models also have a **MENU** button on the front panel as the rear panel is inaccessible when the touchpanel is mounted in a wall (see **figure 2, F**, on page 6).

The menus open at the **Status** screen. There are six different buttons in the navigation panel at the top of the screen. These open the following screens:

- **Status Screen** (see page 15)
- **Network Screen** (see page 15)
- **Display Screen** (see page 17)
- **Audio Screen** (see page 18)
- **Input Screen** (see page 18)
- **Advanced Screen** (see page 20)

The button for the selected screen is yellow; the buttons for the remaining screens are black.

There is also a red **Exit** button in the top right corner of the screen. Pressing this button closes the menu screens.

In this section, the figures show the screens for the TLP Pro 1225MG. The screens for the other touchpanels are very similar.

Status Screen

The Status Screen features a top navigation bar with buttons for Status, Network, Display, Audio, Input, Advanced, and Exit. The main content area is divided into several panels:

- Info Panel:** Displays Model (TLP Pro 1225MG), Part Number (60-1787-02), Firmware Version (1.02.0001-b001), Bootloader Version (1.03.0000), and PoE Status (Active).
- Network Panel:** Shows IP Address (192.168.254.251), DHCP (Off), and Host Name (TLP-AB-CD-EF). A green bubble indicates a network connection.
- Display Panel:** Shows Resolution (1280x800), GUI Project (1280x800), and Sleep Timer (5 Minutes).
- Audio Panel:** Shows System Volume (100) and System Mute (Off).
- Input Panel:** Shows HDMI Port (No Signal) and XTP (1280x720) with an HDCP icon.
- Advanced Panel:** Shows Controller IP (192.168.254.250) and Project Size (1/196 MB). A red square indicates no control processor is connected.

Figure 8. Status Screen

The **Status** screen is read-only. The **Info** panel provides basic information about the touchpanel. Each of the other five panels shows a summary of the information on the other screens. No values can be changed from this screen.

Pressing any of those five panels opens the corresponding screen in exactly the same way as pressing the buttons in the top navigation bar.

The green bubble shown in the **Network** panel indicates that there is a network connection. The red square shown in the **Advanced** panel indicates that no control processor is connected.

Network Screen

The **Network** screen allows you to set the **DHCP** status and, if DHCP is set to **Off**, the network addresses for the touchpanel. Verify with your network administrator whether the IP address for the touchpanel is assigned by DHCP or set manually. If it is set manually, you need to obtain an IP address, a subnet mask, a gateway address, and a Domain Name Server (DNS) IP address from the network administrator.

The Network Screen features a top navigation bar with buttons for Status, Network, Display, Audio, Input, Advanced, and Exit. The main content area includes:

- DHCP Section:** A toggle switch with **On** and **Off** buttons.
- Configuration Fields:** Host Name (TLP-AB-CD-EF), IP Address (192.168.254.251), Subnet Mask (255.255.255.0), Gateway (0.0.0.0), DNS Primary (127.0.0.1), Domain Name, and Mac Address (00-05-A6-AB-CD-EF).
- Action Buttons:** Revert and Apply buttons.

Figure 9. Network Screen

1. If IP addresses are assigned by DHCP, press **On**. If the IP address is to be assigned manually, press **Off**.

- When DHCP is off, the **Host Name** is grayed out and cannot be edited. All addresses can be edited (as shown in figure 9).
- When DHCP is on, the **Host Name** can be edited. The addresses are grayed out and cannot be edited because they are set by the DHCP server.

2. If DHCP is on, press the **Host Name** button to edit the host name. The **Host Name** dialog box opens:

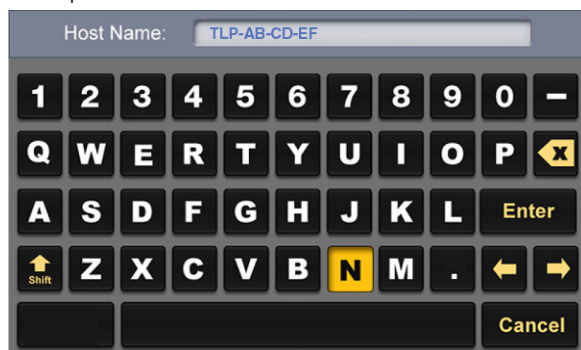


Figure 10. Alphanumeric Keypad

Use the keypad to enter a new name, which appears in the **Host Name** text box.

3. If DHCP is disabled, set the unit IP address, subnet mask, gateway address, and DNS server address.
 - a. Press the button for the address to be edited. A screen opens, showing the address and a numerical keypad.

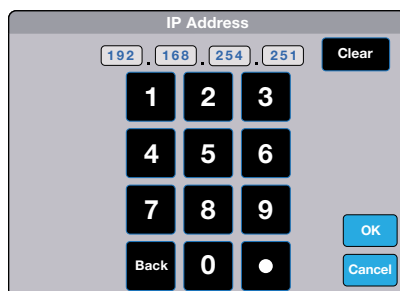


Figure 11. Numeric Pad for Setting IP Addresses

- b. Select an octet and enter the 3-digit value (leading zeroes in the octet are ignored).

NOTES:

- Octets can have any value between 0 and 255.
- If you attempt to enter an invalid number, for example 892, you are able to enter the 89 but the 2 cannot be entered.
- When a valid 3-digit value is entered, the next octet is automatically selected.

- c. Press **OK** to save the changes and return to the **Network** screen or press **Cancel** to return to the **Network** screen without saving the changes.
4. If you have changed any of the values in the **Network** screen, the background color of the button changes to blue. Press **Apply** to apply the new values or press **Revert** to return to the previous values without saving the changes. The button returns to gray.

If you have not made any changes, the **Apply** and **Revert** buttons are grayed out.

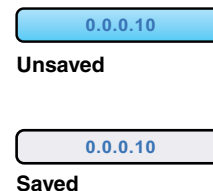


Figure 12. IP Address, unsaved (top) and saved (bottom).

Display Screen

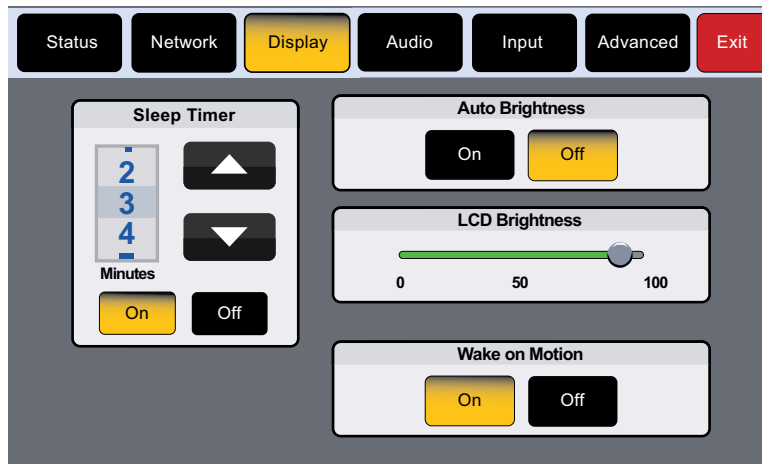


Figure 13. Display Screen

The **Display** screen allows you to set the **Sleep Timer**, **Auto Brightness**, **LCD Brightness**, and **Wake on Motion**.

- **Sleep Timer** — Toggle between **On** and **Off**.
 - If the sleep timer is on, after a period of inactivity, the screen goes dark to save power (Sleep mode). Use the up and down arrows to set how long the period of inactivity should be. The value can be between 1 and 120 minutes.
 - If the sleep timer is Off, the panel does not enter sleep mode.
- **Auto Brightness** — Toggle between **On** and **Off**.
 - If **Auto Brightness** is on, the light sensor (MG models: see [figure 2, A](#), on page 6; TG models see [figure 3, A](#) on page 7) monitors the amount of ambient light detected and automatically provides a suitable amount of screen backlighting for the situation.
 - If **Auto Brightness** is off, the screen brightness is not affected by changes in the ambient light.
- **LCD Brightness** — Use the slider control to adjust the screen brightness between **0** and **100**.
- **Wake on Motion** — Toggle between **On** and **Off**. For this to work, the touchpanel must be in sleep mode.
 - If **Wake on Motion** is on, and the touchpanel is in sleep mode, any motion detected by the motion sensor (MG models: see [figure 2, E](#), on page 6; TG models see [figure 3, E](#) on page 7) wakes the panel from sleep mode. The screen lights and all buttons become functional.
 - If **Wake on Motion** is off, the panel does not wake in response to nearby motion, and the touchpanel can be activated by pressing anywhere on the screen.

Configuring the Motion Sensor

The **Motion Sensor** (see [figure 2, E](#)) detects motion between three to five feet from the touchpanel, and at least 15° from the center axis.

- If the **Sleep Timer** has been set and no motion has been detected for a user-defined period of time, the touchpanel enters sleep mode.
- If the **Sleep Timer** has not been set, the touchpanel does not enter sleep mode.
- If **Wake on Motion** has been set and motion is detected by the sensor while the screen is in sleep mode, the screen display is restored and active.
- If **Wake on Motion** has not been set and the screen is in sleep mode, touch the screen to restore it to an active state.

Audio Screen

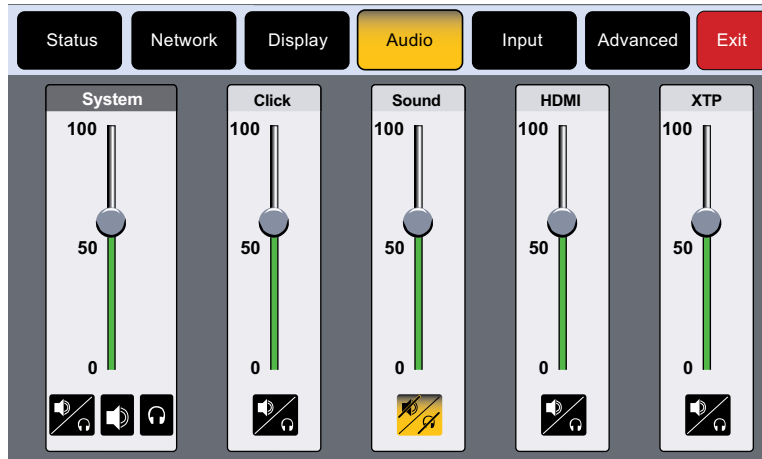


Figure 14. Audio Screen

On the **Audio** screen, use the slider controls to adjust the **System**, **Click**, **Sound**, **HDMI**, and **XTP** volume settings.

- The **System** panel allows you to click on the appropriate icon to set whether the audio is heard through the speakers, headphones, or both.
It also sets the maximum volume threshold for all the other sound volume settings. For example, if the system volume is set to **80** (80 percent of maximum), when the HDMI volume is set to **50**, it is equivalent to only 40 percent of maximum (50 percent of 80 percent).
- **Click** sets the volume for audible feedback that accompanies events such as a screen button being pressed.
- **Sound** sets the volume of audio from any audio file playback.
- **HDMI** sets the volume of the HDMI input.
- **XTP** sets the volume of the XTP input.

Click on the speaker and headphones icon at the bottom of each panel to toggle between audio on (black button) and audio mute (yellow button). The **Sound** audio is muted in figure 14.

Input Screen

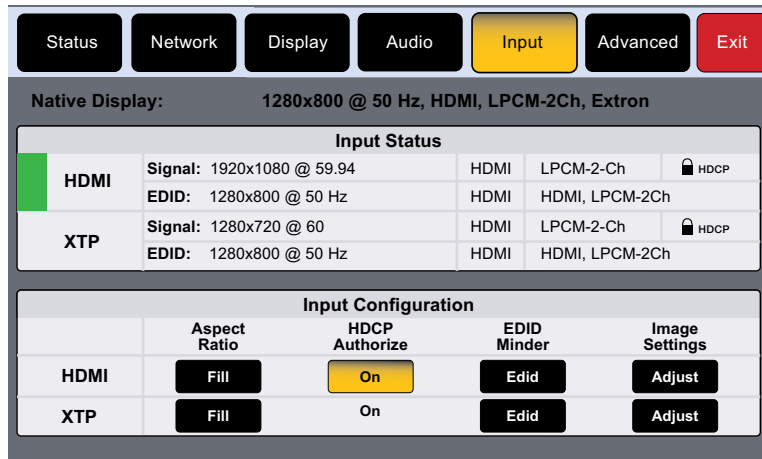


Figure 15. Input Screen

The **Input** screen provides information about the video input signal status and allows configuration of the input signal.

At the top of the screen the native display EDID information is shown. Figure 15 shows this is **1280x800 @ 50 Hz, HDMI, LPCM-2Ch**. for the TLP Pro 1225MG.

The upper panel shows read-only information about the input signal status. The green bar indicates whether the current input is HDMI or XTP. In [figure 15](#) on page 18, the input is HDMI. The XTP input status information is obtained from the last XTP input signal.

The lower panel allows adjustments to the input configuration.

- **Aspect Ratio** — Press this button to toggle between **Fill**, which stretches the image to fill the entire screen, and **Follow**, which maintains the aspect ratio of the input signal.
- **HDCP Authorization** — Press the button to toggle between **On** (default) and **Off**. When HDCP Authorize is **On**, HDCP-encrypted input signals pass to the screen.
- **EDID Minder** — Press the **EDID** button to toggle between using the EDID of the touchpanel (1280x800 @ 50Hz for the TLP Pro 1225MG) or setting a resolution and refresh rate. The button is black if the native display is used and turns yellow if you are setting the EDID manually.

Pressing the button opens the **EDID Minder** window. When setting the EDID manually, only the **Resolution** panel is initially populated. Once the resolution is selected, the available refresh rates for that resolution are displayed. When both the resolution and refresh rate are selected, press **Apply**.

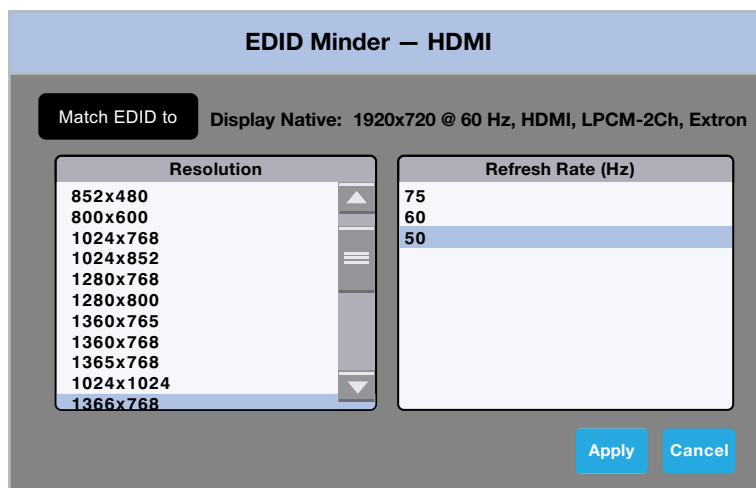


Figure 16. EDID Minder

- **Image Settings** — Press the **Adjust** button to open the **Image Settings** window. Select the input (**HDMI** or **XTP**), or adjust **Brightness**, **Contrast**, **Detail**, and **Overscan**.

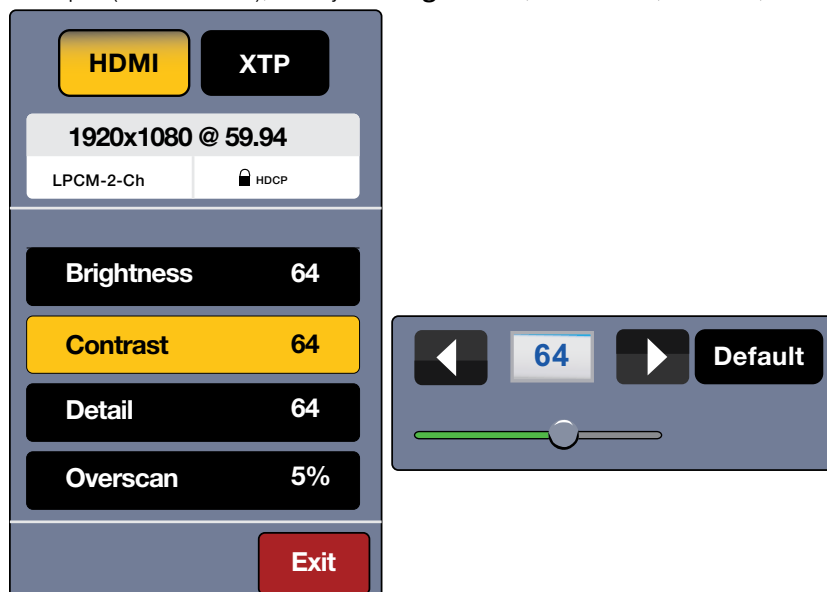


Figure 17. Image Settings

1. Select the video input by pressing the appropriate button (**HDMI** or **XTP**).
The EDID information is shown in a read-only panel.
2. To adjust **Brightness**, **Contrast**, **Detail**, or **Overscan**, press the appropriate button. A small window opens to the right of the screen. For **Brightness**, **Contrast**, and **Detail**, the window shows the current value with right and left arrows to increment or decrement the value. To change the value more quickly, use the slider underneath.
To reset the value to default, press the **Default** button. The default value for **Brightness**, **Contrast**, and **Detail** is 64. All three parameters can be adjusted to any value between 1 and 127.
3. Press **Overscan**. A small window opens offering the options 0%, 2.5%, and 5%. The default setting is 5%.
4. Press **Exit** to save the changes and return to the **Input** screen.

Advanced Screen

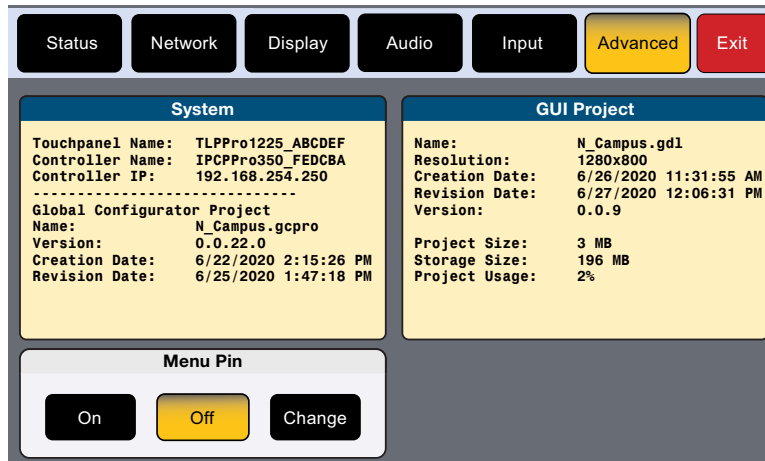


Figure 18. Advanced Screen

The **System** and **GUI Project** panels are read only, providing information about the system.

Menu PIN

Press **Change** to open the **PIN Setup** window. The PIN setup options allow you to enable, disable, or change the setup menu PIN. The PIN is a 4-digit number. Each digit can have any value from 0 through 9.

1. Press a number on the keypad. A blue circle appears in the first box.

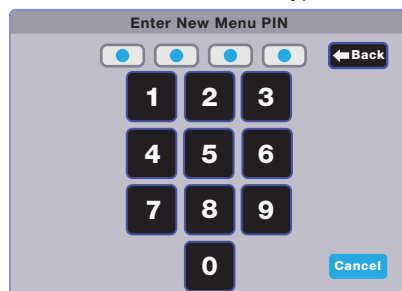


Figure 19. Numeric Keypad for Setting PIN

2. Select the other three digits for the PINs. The fourth circle appears momentarily and then the screen changes to **Confirm New Menu Pin**.
3. Enter the PIN a second time. When the PIN entered on the second occasion matches the PIN entered on the first occasion, the PIN is set and the dialog closes.

Configuration Software

This section of the user guide provides information about:

- [Configuration Software](#)
- [Install Software](#)
- [Using the Software](#)
- [TLP Pro 1225, 1525, and 1725 Series Web Page](#)
- [Updating the Firmware](#)

Configuration Software

Use Toolbelt to provide device information, firmware updates, and configuration of network settings, system utilities (reset, reboot), and user management (username and password) for TouchLink Pro devices.

GUI Designer, Global Configurator Plus and Professional, and Global Scripter are used to design the touchpanel screen and assign functions to the screen elements.

Install Software

The TLP Pro 1225, 1525, and 1725 series touchpanels are compatible with GUI Designer, Global Configurator Plus and Professional, Global Scripter, and Toolbelt.

All four software products can be downloaded from www.extron.com

NOTE: Ensure you are downloading the correct software. These touchpanels are not compatible with Global Configurator 3 or GUI Configurator.

1. Select the **Download** tab (❶).
2. Click the **Software** (❷) option at the bottom of the page.

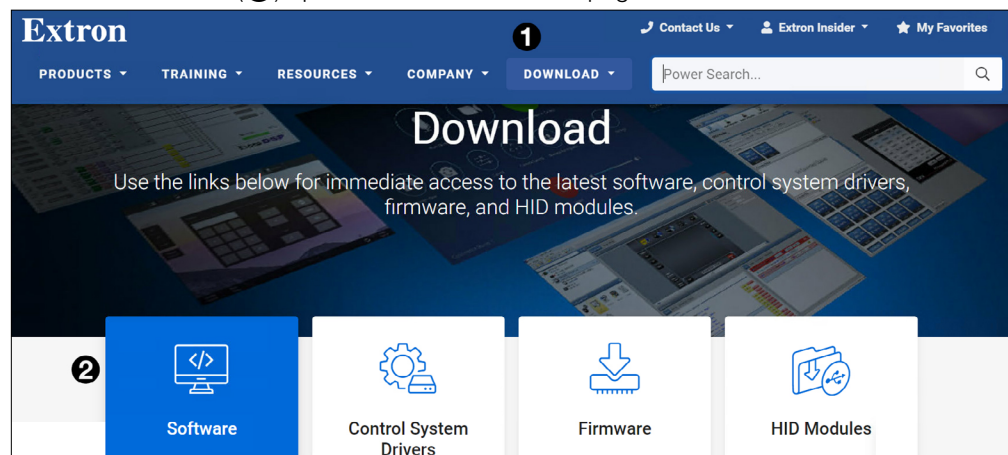


Figure 20. Software Downloads from the Extron Website

3. You may see the product immediately, for example Global Configurator Plus and Professional (see figure 21, ①). Use the left and right arrows (②) to scroll through all the highlighted products. If the software is not shown, click the initial letter of the product in the alphabet menu (③).

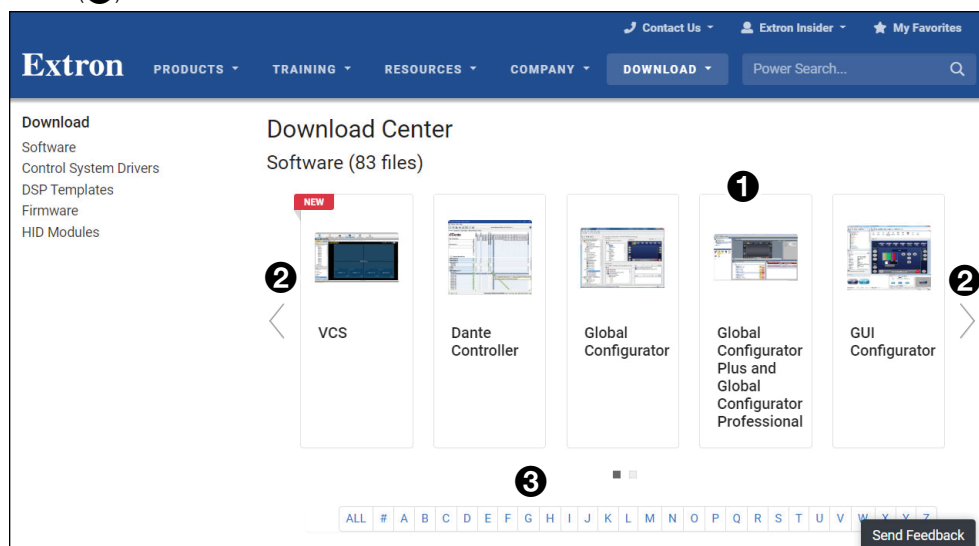


Figure 21. Software Download Center

4. Clicking directly on the product name takes you to the product page, which provides more information about the software. Click **Download** and, on the new page, provide the information requested. An executable file (.exe) is placed in your default **Downloads** folder. Clicking on a letter from the alphabet menu generates a list of software products with that initial letter. Scroll through the search results until you find the desired product. Click **Download** and, on the new page, provide the information requested. An executable file (.exe) is placed in your default **Downloads** folder.

NOTES:

- If you select Global Configurator Plus and Professional, there is a check box that allows you to download Toolbelt at the same time.
- You need an Extron Insider account to run Global Configurator Plus and Professional. To obtain one, contact the Extron Sales Department.
- Ensure you are downloading Global Configurator Plus and Professional.

5. Run the executable file to install the software. By default, your computer creates a new folder at C:\Program Files\Extron or C:\Program Files (x86)\Extron.

Using the Software

Use GUI Designer and Global Configurator Plus and Professional to design and configure a graphical user interface (GUI) for the TouchLink Pro touchpanel.

1. Design the layout of the screen text and graphics using GUI Designer, which is a Windows-based application. You can either customize an existing template or create an entirely new interface. GUI Designer offers several templates.
2. After the user interface has been designed, the project is saved, built, and imported into Global Configurator Plus and Professional.
3. Use Global Configurator Plus and Professional to assign functions to the text and graphics of the interface.
4. After assigning the control functions, the project is rebuilt and uploaded to the control processor and touchpanel.

Alternatively, instead of using Global Configurator Plus and Professional, use Global Scripter to program control functions for the text and graphic items of the interface.

The GUI Designer, Global Configurator Plus and Professional, and Global Scripter software provide versatility and adaptability for control of an AV system as it grows and evolves.

GUI Designer — Use the GUI Designer software to design the screen layout for the touchpanel (see the *GUI Designer Help File* for step-by-step instructions and more detailed information).

Global Configurator Plus and Professional — Use the Global Configurator Plus and Professional software to assign functions to the text and graphics of the interface (see the *Global Configurator Plus and Professional Help File* for step-by-step instructions and more detailed information). The *Global Configurator Plus and Professional Help File* also includes an introduction to the software and sections on how to start and configure a project.

Global Scripter — As an alternative to Global Configurator Plus and Professional, use the Global Scripter software to program the touchpanel, using Python™ 3.5 with an Extron-exclusive Python library (ControlScript) and Global Scripter modules (see the *Global Scripter Help File* for more detailed information).

Toolbelt — The touchpanel can use the Toolbelt software for device discovery, device information, firmware updates, and configuration of network settings (see the *Toolbelt Help File* for more detailed information).

TLP Pro 1225, 1525, and 1725 Series Web Page

To access the touchpanel default web page, enter the IP address of the unit into the web browser of a PC connected to the same subnet. A log-in page opens.

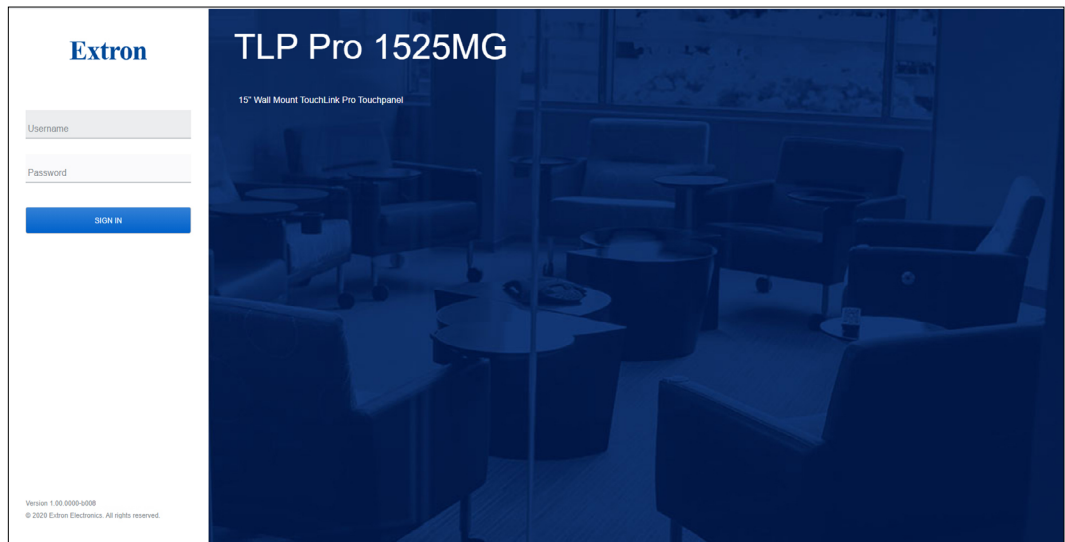


Figure 22. TLP Pro 1525MG Login Page

Figure 22 shows the login page for the TLP Pro 1525MG. The login pages for the other touchpanels are very similar.

1. Enter the **Username** and **Password**. The factory configured passwords for all accounts on this device have been set to the device serial number. Passwords can be changed during configuration. Passwords are case sensitive.

NOTE: If the device is reset to default settings, the passwords are reset to the default password, which is **extron** (for either **admin** or **user**).

2. The touchpanel web page opens:

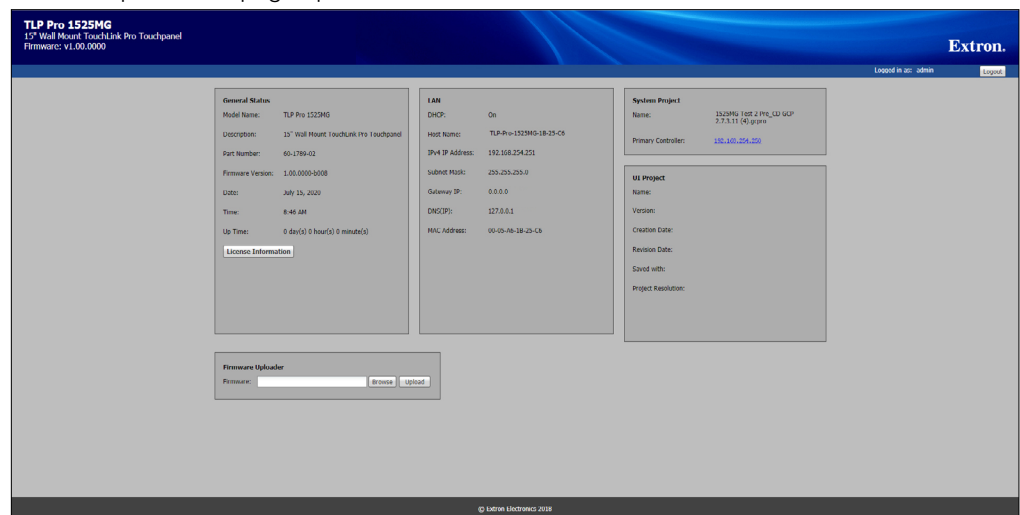


Figure 23. TLP Pro 1525MG Web Page

Figure 23 shows the web page for the TLP Pro 1525MG. The web pages for the other touchpanels are very similar.

- There is a single page, most of which is read-only, providing general and network information about the unit. Use the **Setup Menu** (see page 14) or Toolbelt to configure the touchpanel network settings.
- Click **Licence Information** to see information about Network Port Requirements and Licensed Third-Party Software Used by the Touchpanels for the TLP Pro 1225, 1525, and 1725 series touchpanels.
- Use the **Firmware Uploader** panel to upgrade the unit firmware (see “Updating the Firmware” in the following section).

Updating the Firmware

Firmware for all the touchpanels can be upgraded using Toolbelt or the touchpanel web page. Before starting, consult your IT team and ensure that the touchpanel has a unique IP address.

Downloading Firmware

1. Open the **Extron website** and select the **Download** tab (1).
2. Click the **Firmware** (2) option at the bottom of the page.

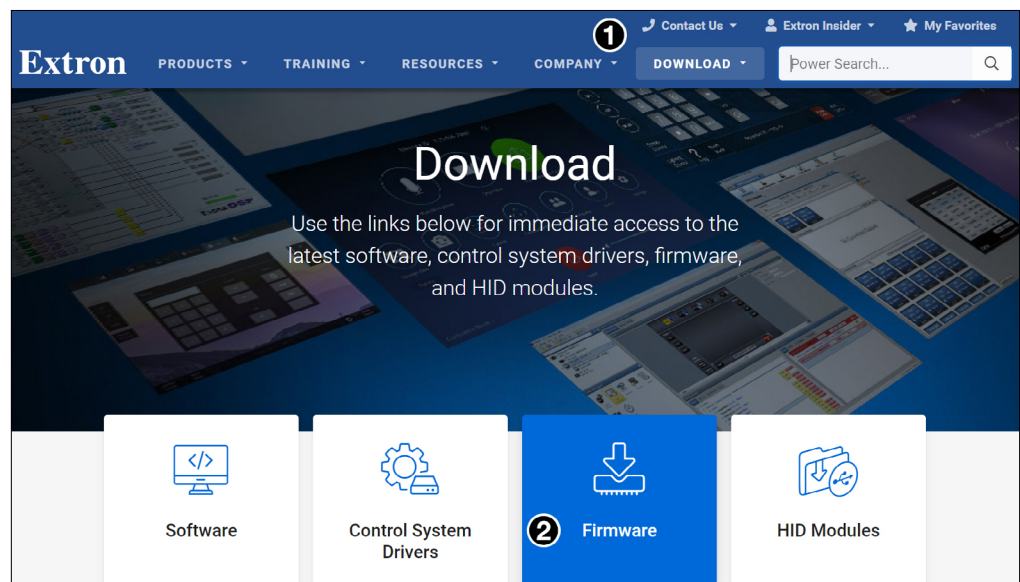


Figure 24. Firmware Download

The Firmware Download Center page opens:

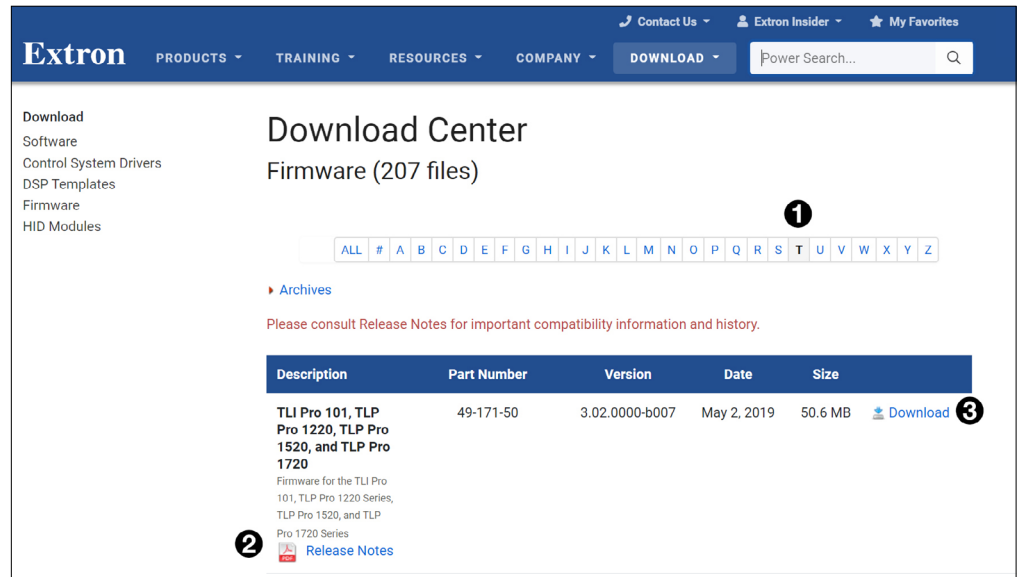


Figure 25. Selecting Firmware to Download

3. Click the letter **T** from the list of letters (1).
4. Scroll down the page until you find the firmware for your touchpanel model.

NOTE: Your product will appear in this list only if a new version of the firmware has been released since the product was first introduced.

5. (Optional) Click **Release Notes** (2) for more information about the firmware.
6. Click **Download** (3).
7. Follow the on-screen instructions to download the program. An executable file is downloaded to the PC.
8. Go to the **Downloads** folder and click on the file to install the firmware on the PC. By default, it is stored at `C:\Program Files (x86)\Extron\Firmware\<product name>\<firmware version>`.
9. Upload this file to the touchpanel using the touchpanel web page (see “Updating Firmware Using the Touchpanel Web Page”) or Toolbelt (see “Updating Firmware Using Toolbelt”).

Updating Firmware Using the Touchpanel Web Page

1. If you have not already done so, download the firmware file to a computer on the same network as the touchpanel (see the previous section).
2. Open the **TLP Pro 1225, 1525, and 1725 Series Web Page** (see page 24).



Figure 26. Touchpanel Web Page: Firmware Uploader

3. Click **Browse** and navigate to the firmware location. Select the firmware file and click **Open**.
4. Click **Upload**. The firmware file is uploaded to the touchpanel. Follow the on-screen instructions.

Updating Firmware Using Toolbelt

For complete information about using Toolbelt to update the touchpanel firmware, see the *Toolbelt Help File*.

Mounting

This section outlines the various options for:

- **Mounting the TLP Pro 1225MG, 1525MG, and 1725MG**
 - **Rack Mounting**
 - **Wall Mounting**
- **Mounting the TLP Pro 1225TG, 1525TG, and 1725TG**
 - **Desktop Mounting**
 - **VESA Mounting**

Mounting the TLP Pro 1225MG, 1525MG, and 1725MG

Rack Mounting

These touchpanels can be mounted in any standard 19-inch equipment rack, using the optional rack mounting kit.

- **TLP Pro 1225MG:** RM 2 kit
- **TLP Pro 1525MG:** RM 3 kit
- **TLP Pro 1725MG:** RM 3 kit

Read the Underwriters Laboratories Guidelines for Rack Mounting below and follow the instructions provided with the appropriate kit.

The UL Guidelines for Rack Mounting

The following Underwriters Laboratories (UL) guidelines pertain to the installation of the TLP Pro 201 enclosure into a rack:

CAUTION:

- **Elevated operating ambient temperature** — If the equipment is installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consider installing the equipment in an environment compatible with the maximum ambient temperature (T_{ma}) specified by Extron.
- **Reduced air flow** — Install the equipment in the rack so that the amount of air flow required for safe operation of the equipment is not compromised.
- **Mechanical loading** — Mount the equipment in the rack so that uneven mechanical loading does not create a hazardous condition.
- **Circuit overloading** — When connecting the equipment to the supply circuit, consider the connection of the equipment to the supply circuit and the effect that circuit overloading might have on overcurrent protection and supply wiring. Consider equipment nameplate ratings when addressing this concern.
- **Reliable earthing (grounding)** — Maintain reliable grounding of rack-mounted equipment. Pay particular attention to supply connections other than direct connections to the branch circuit (such as the use of power strips).

Consignes UL pour le montage en rack

Les consignes UL (« Underwriters Laboratories ») suivantes concernent l'installation en rack d'un boîtier TLI Pro 201 :

CAUTION :

- **Température ambiante élevée** — En cas d'installation de l'équipement dans un rack fermé ou composé de plusieurs unités, la température du rack peut être supérieure à la température ambiante. Par conséquent, il est préférable d'installer l'équipement dans un environnement qui respecte la température ambiante maximale (Tma) spécifiée par Extron.
- **Réduction du flux d'air** — Si l'équipement est installé dans un rack, veillez à ce que le flux d'air nécessaire pour un fonctionnement sécurisé de l'équipement soit respecté.
- **Charge mécanique** — Installez l'équipement en rack de manière à éviter toute situation dangereuse causée par le déséquilibre de la charge mécanique.
- **Surcharge électrique** — Lorsque vous connectez l'équipement au circuit d'alimentation, observez la connexion de l'équipement et étudiez les effets possibles d'une surcharge du circuit sur les protections contre les surintensités et les conducteurs d'alimentation. Consultez à cet égard les indications de la plaque d'identification de l'équipement.
- **Mise à la terre** — Assurez-vous que l'équipement est correctement mis à la terre. Accordez une attention particulière aux connexions électriques autres que les connexions directes au circuit de dérivation (ex. : les multiprises).

Wall Mounting

The touchpanels can be mounted into drywall. The diagram in this section shows the TLP Pro 1525MG. Mount the TLP Pro 1225MG or 1725MG in the same way.

ATTENTION:

- Do not install the TLP Pro 1225MG, 1525MG, or 1725MG in a fire resistant rated wall or partition assembly.
- Ne pas installer le TLP Pro 1225MG, le 1525MG, ou le 1725MG dans un mur résistant au feu ou une cloison.
- All structural steps and electrical installation must be performed by qualified personnel in accordance with local and national building codes and electrical codes.
- Toute étape structurelle et installation électrique, doit être effectuée par un personnel qualifié, conformément aux codes du bâtiment, aux codes incendie et sécurité, et aux codes électriques, locaux et nationaux.

Some local building codes require the touchpanel to be mounted in a wall box such as the Extron BB 700M (see [Mounting with a wall box](#) on page 29).

If local codes permit, you may mount the touchpanel without the wall box (see [Mounting without a wall box](#) on page 30).

Mounting with a wall box

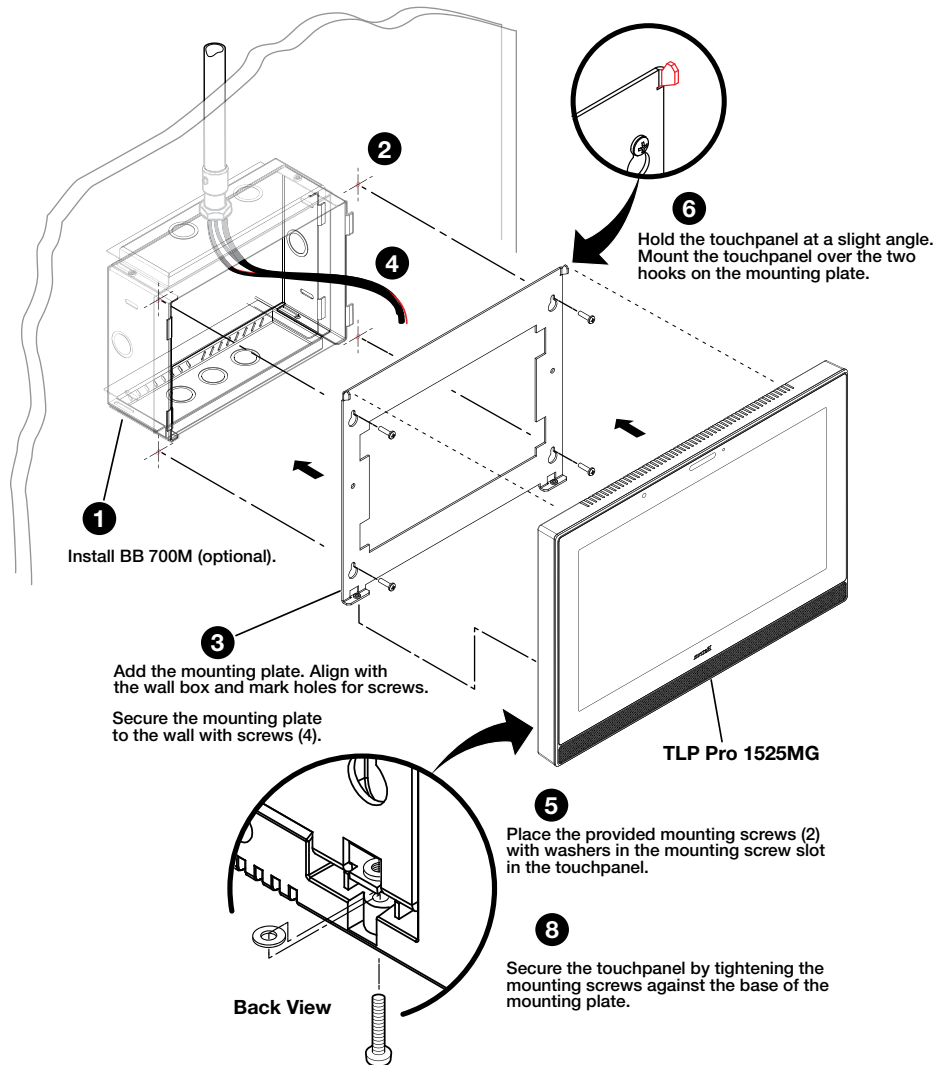


Figure 27. Wall Mounting the TLP Pro 1525MG with the BB 700M

The TLP Pro 1225MG, 1525MG, or 1725MG can be mounted using the BB 700M wall box.

1. Cut a hole in the drywall, 9.55 inches (24.26 cm) wide x 6.55 inches (16.64 cm) high, and install the BB 700M back box (must be purchased separately), as described in the *BB 700M Installation Guide* (see www.extron.com).
2. Place the metal mounting plate against the wall, mark the four mounting holes, and drill four pilot holes.
3. Secure the mounting plate with four #10 screws.
4. Run and connect cables to the rear of the touchpanel (see **TLP Pro 1225, 1525, and 1725 Series Rear Panel Features** on page 8).
5. Insert the two provided Phillips pan head #6-32 x 3/4 inch length screws with washers in the mounting screw slot (see **figure 4** on page 8).
6. Hold the touchpanel at a slight angle and lower the notches at the top of the rear panel (see **figure 4**) over the hooks of the mounting plate.
7. Swing the bottom of the touchpanel inwards so that it lies flat against the mounting plate with the tongue at the bottom of the mounting plate sitting in a groove in the bottom of the touchpanel.
8. Secure the touchpanel to the mounting plate with the mounting screws.

Mounting without a wall box

This procedure can be adapted to mount the touchpanel in furniture, such as a lectern.

1. Download the cut-out template for your touchpanel from www.extron.com. Print it at 100% (no scaling).
2. Use the template to mark the wall, cut the hole, and drill the four pilot holes.
The size of the cut-out hole is 9.25 inches (23.50 cm) wide x 6.25 inches (15.88 cm) high for the TLP Pro 1225MG, 1525MG, or 1725MG.
3. Secure the mounting plate and complete the installation, as described in [steps 3-8](#) on page 29.

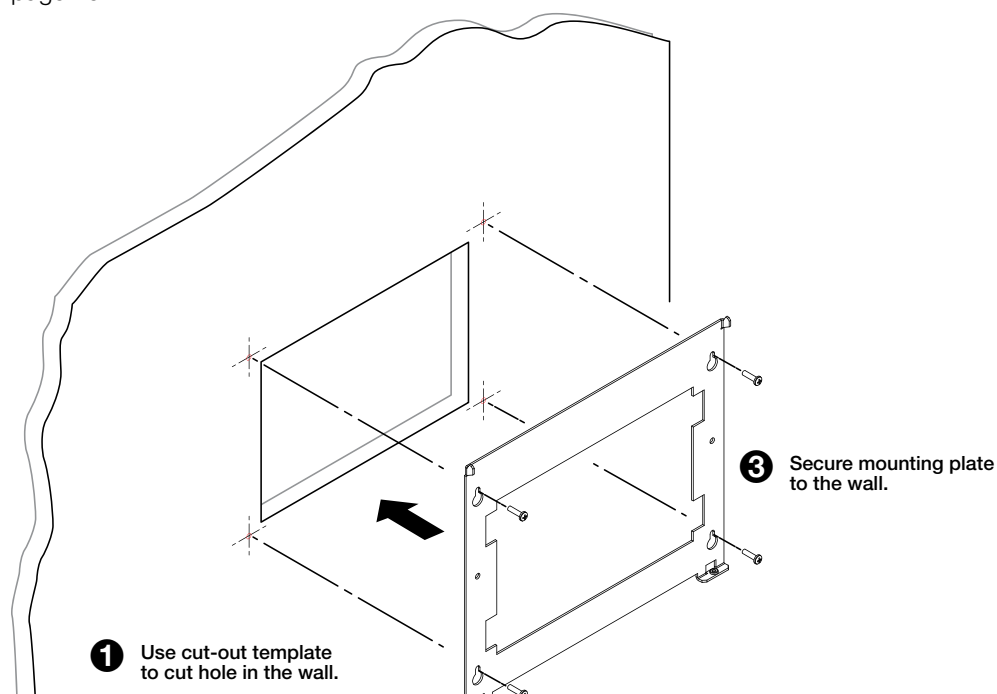


Figure 28. Mounting Without a Wall Box

Mounting the TLP Pro 1225TG, 1525TG, and 1725TG

Removing the Rear and Base Covers

Some of these procedures require the rear and base covers to be removed. You must remove the rear cover before you can remove the base cover.



Figure 29. Remove the Rear and Base Covers

1. Use the provided Extron removal tool. There is one notch on each side of the rear cover (figure 29, **1**). Insert the tool into the notch to release the catch.
2. Use the removal tool to remove the base cover. There are two notches at the back of the base (**2**).

Desktop Mounting

The TLP Pro 1225TG, 1525TG and 1725TG come assembled with stands that allow the units to be placed on any suitable flat surface (for example a desk, table, or lectern).

Placement without a Mounting Kit

Figure 30 shows the base of the TLP Pro 1225TG, with the cover removed to indicate the position of the mounting holes. The base of the TLP Pro 1525TG and 1725TG are similar and the spacing of the mounting holes (figure 30, **1**) is identical.

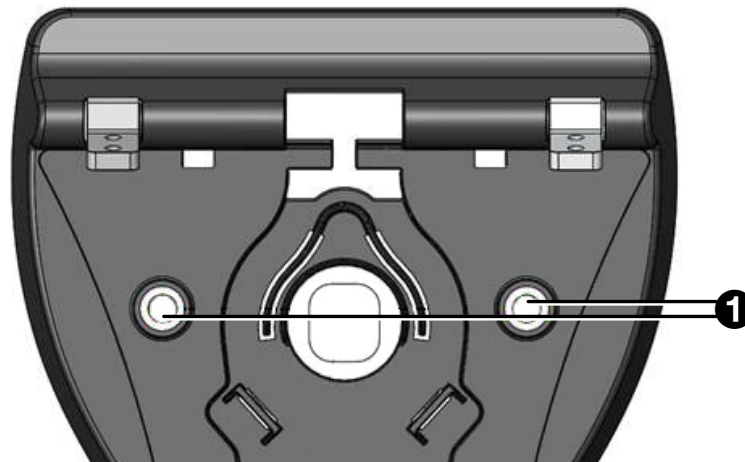


Figure 30. TLP Pro 1225TG Base, Showing Mounting Holes

1. Mark the location of two mounting holes, 4.96 inches (126.0 mm) apart. This measurement is the same for the TLP Pro 1225TG, 1525TG, and 1725TG.
2. Drill two pilot holes into the desktop.
3. Remove the cover of the touchpanel base.
4. Insert two #10 flat-head wood screws (not provided) through the touchpanel and align them with the two pilot holes.
5. Secure the touchpanel to the tabletop.
6. Replace the cover to the base.

Placement with a Kensington Security Lock



Figure 31. TLP Pro 1225TG Base, Showing Kensington Security Slot

For added security, attach a Kensington Security Lock (not provided) to the metal-reinforced slot on the rear edge of the base. Figure 31 shows the rear edge of the TLP Pro 1225TG base. The bases of the TLP Pro 1525TG and 1725TG are very similar.

Follow the instructions that are provided by the manufacturer to install the lock.

Placement with a SMA-1 swivel mount adapter

All three touchpanels can also be mounted with the optional Extron SMA-1 swivel mount adapter, which allows them to be mounted permanently and swivel up to 180° in either direction.

1. Remove the rear cover and base cover (see [Removing the Rear and Base Covers](#) on page 31).
2. Attach the conduit, insulation disk, and swivel disk and configure the set screws to allow for the degree of swivel that is required (see the *SMA-1 Swivel Mount Adapter Kit User Guide*, at www.extron.com).
3. Place the mounting hole in the base over the conduit of the SMA-1.
4. Secure the unit with the backing plate and locking nut as described in the *SMA-1 Swivel Mount Adapter Kit User Guide*.

VESA Mounting

The TLP Pro 1225TG, 1525TG, and 1725TG touchpanels have VESA FDMI Type D 100 mm mounting patterns that can be used for VESA mounting with an appropriate third-party mounting kit.

Before VESA mounting, the base of the touchpanel must be removed.

1. Remove the rear cover and base cover (see [Removing the Rear and Base Covers](#)).
2. If necessary, remove cables from the raceway in the base by reversing the procedure described in [Routing Cables \(TG Models\)](#) on page 13. If necessary, cut the plastic ties that bundle the cables together.
3. Remove the screws holding the hinges to the touchpanel.

NOTE: The spanner drive screws holding the hinges require a #6 spanner bit or #6 spanner head screwdriver (not provided).

4. Lift the TLP away from the base.
5. Follow the instructions provided with the VESA mounting kit.

Reference Material

This section describes:

- **Best Practices for Cleaning Your Extron Products**
- **Network Port Requirements and Licensed Third-Party Software Used by the Touchpanels**
- **Reset Modes**
- **Secure Sockets Layer (SSL) Certificates**
- **IEEE 802.1X Certificates**
- **SNMP**

Best Practices for Cleaning Your Extron Products

Depending on the device, application, and location, there may be times when it becomes necessary to clean your Extron product. Frequently touched devices, such as touchscreens and button panels, require regular cleaning to ensure their surfaces remain sanitary. Plastic surfaces and cosmetic finishes can be damaged by long term exposure to chemicals. Therefore, Extron recommends the following guidelines when cleaning our products.

All Extron products can be safely cleaned with:

1. 70% concentration or higher Isopropyl Alcohol
2. Disinfectant cleaners that:
 - Are non-ammonium based (for example, contains no ammonium chloride)
 - Contain 2% or less sodium hypochlorite (for example, 2% bleach, 98% water)

Regardless of the device, it is important to follow these general guidelines when cleaning:

1. If possible, unplug the device.
2. Spray the cleaner on a lint-free cloth until the cloth is damp.
3. Do not spray the cleaner directly onto the product.
4. Gently clean the product surface using the cloth.

Your health and safety are our top priority. Keeping devices clean, especially those in high-traffic environments and high-use applications, is a crucial step in minimizing the spread of infections. Please contact us if you have any questions about the guidelines outlined in this section or if you have a question about cleaning a specific Extron product.



Network Port Requirements and Licensed Third-Party Software Used by the Touchpanels

For information about network port requirements and licensed third-party software for the TLP Pro 1225, 1525, and 1725 series touchpanels, see the *Extron Control Product Network Ports and Licenses Guide*, which is available at www.extron.com.

Reset Modes

These touchpanels have four reset modes that are initiated by pressing the **Reset** button:

- **Use Factory Firmware**
- **Reset All IP Settings**
- **Reset to Factory Defaults**
- **Enable or Disable the DHCP Client**

The **RESET** button is found on the rear panel (see [figure 4](#), **C**, on page 8, for MG models; or [figure 5](#), **I**, on page 9, for TG models).

Use Factory Firmware

This mode is used to boot up the unit with factory-installed firmware for a single power cycle in the event of a firmware update that failed or incompatibility issues arising with user-loaded firmware.

Activation

1. On the touchpanel, hold down the recessed **RESET** button while applying power to the unit. When power is restored, the **RESET** LED lights. Hold the **RESET** button for a further two seconds before releasing it. The touchpanel enters factory firmware mode.
2. Upload new firmware to the unit as desired (see [Updating the Firmware](#) on page 25).

NOTE: Do not continue to operate the touchpanel using the factory firmware version. If you want to use the factory default firmware, you must upload that version again (see [Updating the Firmware](#)).

Result

The unit reverts to factory-installed firmware. Event scripting does not start if the unit is powered on in this mode. All user files and settings such as drivers, adjustments, and IP settings are maintained.

NOTE: To return the unit to the firmware version that was running prior to the reset, cycle power to the unit.

Reset All IP Settings

This mode resets all IP settings to factory defaults.

Activation

To reset all IP settings:

1. Hold down the **RESET** button until the **RESET** LED blinks twice (once at 3 seconds and again at 6 seconds).
2. Release and press **RESET** momentarily (for <1 second) within 1 second. Nothing happens if the momentary press does not occur within 1 second.

Result

Reset All IP Settings mode:

- Sets the IP address back to factory default (192.168.254.251).
- Sets the subnet back to factory default (255.255.255.0).
- Sets the default gateway address to the factory default (0.0.0.0).
- DNS Primary address back to the factory default (127.0.0.1).
- Sets the DHCP back to factory default (Off).
- Sets the Hostname back to factory default (TLP-Pro-1225MG-AB-CD-EF).
- Sets the Domain name back to factory default (Blank).

Reset to Factory Defaults

This mode resets all IP settings and touchpanel settings, including passwords, to factory defaults and removes all configurations. It allows you to start over with configuration and uploading.

NOTES:

- The factory configured passwords for all accounts on this device have been set to the device serial number. Passwords can be changed during configuration. Passwords are case sensitive.
- If the device is reset to default settings, the password changes to the default password. The default password is **extron** (for either **admin** or **user** accounts).

Activation

To reset the unit to all factory default settings:

1. Hold down the **RESET** button until the **RESET** LED blinks three times (once at 3 seconds, again at 6 seconds, and again at 9 seconds).
2. Release and press **RESET** momentarily (for <1 second) within 1 second. Nothing happens if the momentary press does not occur within 1 second.

Result

This mode performs a complete reset to factory defaults (except the firmware).

- Does everything **Reset All IP Settings** (see page 34) mode does.
- Removes touchpanel user interface layout and configurations.
- Resets all touchpanel settings, including passwords, to factory default.

Enable or Disable the DHCP Client

This mode toggles between DHCP enabled and DHCP disabled. This can also be carried out from the **Network Screen** of the Setup Menu (see page 15).

Activation

To enable or disable the DHCP client for the LAN port:

1. Press the **RESET** button five times (consecutively).
2. Release the button. Do not press the button within 3 seconds, following the fifth press.

Result

If DHCP was enabled, it is now disabled. The **RESET** LED blinks three times.

If DHCP was disabled, it is now enabled. The **RESET** LED blinks six times.

NOTES:

- By default DHCP is off and the unit uses a static IP address.
- When you disable DHCP, the unit reverts to using the previously-set static IP address.

Secure Sockets Layer (SSL) Certificates

Extron TouchLink Pro products ship with factory-installed SSL certificates created by Extron. If you want or are required to use a different SSL certificate at your installation site, then you can use system utilities in the Toolbelt software to change the SSL certificate at any time. The *Toolbelt Help File* provides instructions on how to apply an SSL certificate.

NOTES:

- You must run Toolbelt as an administrator.
- Some certificates require a passphrase that is created when the certificate is created. If a passphrase is required, you must enter that passphrase before uploading and applying the certificate.

These devices support standard OpenSSL certificate encodings such as .pem (Privacy-enhanced Electronic Mail) and .der (Distinguished Encoding Rules) file types. PEM file types are ASCII encoded and are the required format for uploading to the Extron control product. DER file types are binary encoded and can typically have several file extension variations, such as .crt and .cer. There are many standard tools that can convert from DER to PEM file encodings if needed.

NOTE: A DER format file must be converted to PEM encoding before uploading it to the button panel, control processor, touchpanel, or collaboration receiver.

To properly create the certificate for uploading to Extron control devices, ensure that the certificate file meets the following requirements:

- contains X.509 certificate information
- contains public and private keys
- uses PEM encoding

NOTE: ITU-T standard X.509 covers aspects of public key encryption, digital cryptography, certificates, and validation.

Contact your IT administrator for more information on what tools and policies are required to obtain or create the SSL certificate and, if necessary, the corresponding passphrase.

IEEE 802.1X Certificates

IEEE 802.1X is a standard that enables port-based network access control via an authentication server. The protocol requires that all devices must be authenticated before gaining privileges to access the secure part of the network.

The Extron implementation of 802.1X supports PEAP - MSCHAPV2 and EAP - TLS methods of authentication. This section of the guide details the Certificate File Requirements and the Private Key File Requirements to be used in the system.

Extron provides resources for learning about 802.1X implementation:

- The *Extron 802.1X Technology Reference Guide*, available from www.extron.com, is the primary resource for background information, system planning, topology, and how to set up these systems.
- The *Toolbelt Help File* provides detailed step-by-step information on using the software to set up 802.1X for IP Link Pro control systems and on troubleshooting.
- The *802.1X Primer white paper*, also available from www.extron.com, provides a general overview of the protocol and its use within a control system.

NOTES:

- You must run Toolbelt as an administrator.
- Machine certificates require a private key file, which can be encrypted.

Certificate File Requirements

PEM (Privacy-enhanced Electronic Mail) file types are ASCII encoded, and they are the required format for 802.1X authentication for the TouchLink Pro control systems. DER (Distinguished Encoding Rules) file types are binary encoded and can typically have several file extension variations, such as .crt and .cer.

NOTE: DER encoded files (files with .der, .crt, or .cer extensions that are encoded in DER binary format) must be converted to a PEM encoded file type (.pem) before being used for authentication.

DER encoded certificates must be converted to PEM encoding using a third-party tool. Contact your IT administrator for more information on required tools.

To create the 802.1X security certificate for uploading to Extron TouchLink Pro control systems, ensure that the certificate file meets the following requirements:

- It contains X.509 certificate information.
- It contains a private key (for machine certificates only).
- It is PEM encoded.
- It has a file extension that is .crt or .pem
- Its file name consists of the following types of valid characters:
 - Alphanumeric (A-Z, a-z, 0-9) characters
 - Some special characters (colon [:], underscore [_], and hyphen [-])

NOTE: Spaces are not permitted anywhere in the name.

Private Key File Requirements

Private key files are required only when employing machine certificates. Follow these requirements for creating a private key:

- Its file name consists of the following types of valid characters:
 - Alphanumeric (A-Z, a-z, 0-9) characters
 - Some special characters (colon [:], underscore [_], and hyphen [-])
- It has a file extension that is .key or .pem.
- It can have optional encryption (via password or passphrase).

SNMP

Extron control products support Simple Network Management Protocol (SNMP). SNMP facilitates the exchange of basic network management information between network devices. It helps in monitoring of operations and factors such as packet usage, memory usage, remote password resets, and collection of error information. An information technology administrator can use common IT tools to monitor those factors, as well as look up device location and the name of the contact person for the device.

The SNMP controls within Toolbelt provide a way to enable or disable SNMP. It also allows you to specify related information such as the name of a contact person, the physical location of the unit, and a community name. The text that is specified in these fields is seen by the network community when the unit is queried.

Extron control products support the following security levels:

- Management Information Base 2 (MIB-II)
- SNMPv2c.

Extron Warranty

Extron warrants this product against defects in materials and workmanship for a period of three years from the date of purchase. In the event of malfunction during the warranty period attributable directly to faulty workmanship and/or materials, Extron will, at its option, repair or replace said products or components, to whatever extent it shall deem necessary to restore said product to proper operating condition, provided that it is returned within the warranty period, with proof of purchase and description of malfunction to:

**USA, Canada, South America,
and Central America:**

Extron
1230 South Lewis Street
Anaheim, CA 92805
U.S.A.

Asia:

Extron Asia Pte. Ltd.
135 Joo Seng Road, #04-01
PM Industrial Bldg.
Singapore 368363
Singapore

Japan:

Extron, Japan
Kyodo Building, 16 Ichibancho
Chiyoda-ku, Tokyo 102-0082
Japan

Europe:

Extron Europe
Hanzeboulevard 10
3825 PH Amersfoort
The Netherlands

China:

Extron China
686 Ronghua Road
Songjiang District
Shanghai 201611
China

Middle East:

Extron Middle East
Dubai Airport Free Zone
F13, PO Box 293666
Dubai, United Arab Emirates

Africa:

Extron South Africa
South Tower
160 Jan Smuts Avenue
Rosebank 2196, South Africa

This Limited Warranty does not apply if the fault has been caused by misuse, improper handling care, electrical or mechanical abuse, abnormal operating conditions, or if modifications were made to the product that were not authorized by Extron Electronics.

NOTE: If a product is defective, please call Extron and ask for an Application Engineer to receive an RA (Return Authorization) number. This will begin the repair process.

USA: 714.491.1500 or 800.633.9876

Asia: 65.6383.4400

Europe: 31.33.453.4040 or 800.3987.6673

Japan: 81.3.3511.7655

Units must be returned insured, with shipping charges prepaid. If not insured, you assume the risk of loss or damage during shipment. Returned units must include the serial number and a description of the problem, as well as the name of the person to contact in case there are any questions.

Extron Electronics makes no further warranties either expressed or implied with respect to the product and its quality, performance, merchantability, or fitness for any particular use. In no event will Extron Electronics be liable for direct, indirect, or consequential damages resulting from any defect in this product even if Extron Electronics has been advised of such damage.

Please note that laws vary from state to state and country to country, and that some provisions of this warranty may not apply to you.