Extron

WC Pro 160 • Setup Guide

IMPORTANT NOTE:

Go to **www.extron.com** for the complete WC Pro 160 user guide, installation instructions, and specifications before connecting the product to the power source.

The WC Pro 160 Workspace Automation Controller is a workspace automation controller designed for small and medium size conference spaces, with resolutions up to 4K (4096 x 2160) at 60 Hz, 24-bit color (8 bits per color), and 4:4:4 chroma sampling. The unit is housed in a 1 inch (25 mm) high, 6.5 inches (165 mm) wide, 3 inches (76 mm) deep metal enclosure. It has an HDMI pass-through port that detects signal presence and passes the signal to a connected display to turn it on and off. It also contains an integrated control processor with LinkLicense® compatibility, and is powered over Ethernet (PoE) or through a 12 VDC port. Control of the display is available via Ethernet, bidirectional RS-232, IR, and CEC.

The product also provides EDID Minder, the ability to enable and disable HDCP, de-embedded or balanced stereo audio output, two configurable digital I/O ports, and a power port that supplies +24 VDC to power accessories such as the Extron OCS 100 occupancy sensors. The controller is ready to use out of the box with universal CEC to control the display device.

Internal web pages are provided to configure the WC Pro 160. In addition, Extron Toolbelt® and Extron Product Configuration Software (PCS) can be used to discover and manage the controller.

With the appropriate LinkLicense, the Extron Global Configurator® software (Global Configurator Professional [GC Professional] or Global Configurator Plus [GC Plus]) is also available to configure the controller. The WC Pro 160 integrates seamlessly with Extron GlobalViewer® Enterprise (GVE) software and Extron Control Apps for remote control applications. The control processors support TouchLink® Pro touchpanel interfaces and Network Button Panels (NBPs) over a standard Ethernet network. The software applications are available at **www.extron.com**.

This guide provides instructions for an experienced installer to install a WC Pro 160 and create a basic control configuration.

Application Diagram

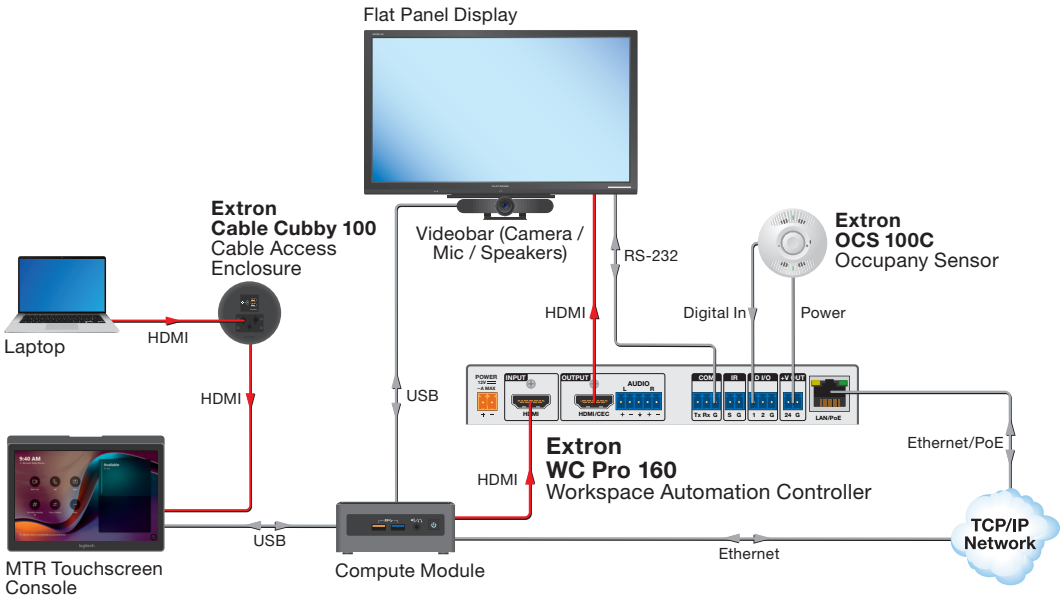

Figure 1. Typical Application of the WC Pro 160

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Rear Panel Features

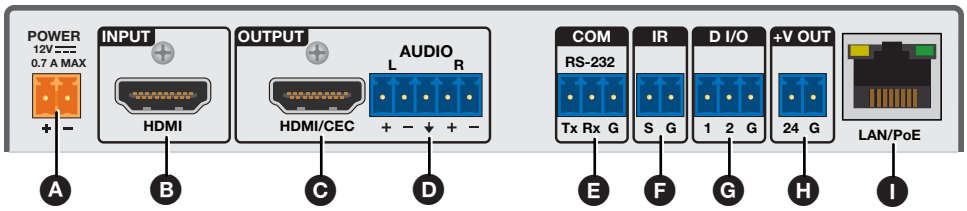


Figure 2. WC Pro 160 Rear Panel

A	Power connector
B	HDMI input connector
C	HDMI/CEC output connector
D	Audio connector
E	RS-232 COM control port
F	IR control port
G	Digital input and output ports
H	+V OUT connector
I	LAN/PoE port

A **Power connector** — (Optional) Connect a 12 VDC, 0.7 A maximum power supply to this 2-pole captive screw connector (can be an alternative or in addition to PoE). See **Step 3: Connect All Devices** on page 5 to wire the power supply.

B **HDMI input connector** — Connect an HDMI source to this female HDMI connector.

C **HDMI/CEC output connector** — Connect an HDMI display to this female HDMI with CEC pass-through port to enable the controller to turn the display on when the WC Pro 160 detects an input signal, and off when the signal is no longer detected.

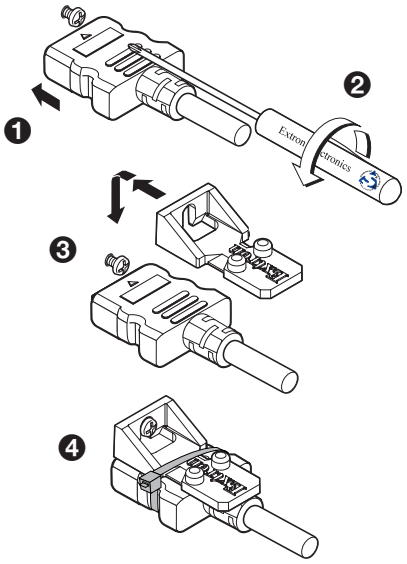
HDMI Input and Output Connectors:

WC Pro 160 has one HDMI input and one HDMI with CEC output connector. Both connectors support resolutions up to 4K (4096 x 2160) @ 60 Hz.

- Using Extron Ultra Series HDMI cables, the controller supports signal equalization of the TMDS signal for a cable length of up to 12 feet (3.6 meters).
- Using Extron Pro Series HDMI cables, the controller supports equalization for a cable length of up to 25 feet (7.6 meters). If you are using an Extron HD 4K 101 Plus cable equalizer (see **www.extron.com** for more information), cable lengths can be up to 35 feet (10.7 meters).

HDMI LockIt® Cable Lacing Brackets:

LockIt cable lacing brackets are provided with the WC Pro 160 unit. These brackets secure the HDMI cables to the rear panel input and output HDMI connectors and reduce stress on the connectors, preventing signal loss due to loose connections. To install these brackets (see the illustration at right):



1. Plug the HDMI cable into the panel connection.
2. Loosen the HDMI connection mounting screw from the panel enough to allow the lacing bracket to be placed over it. The screw does not have to be removed.
3. Place the LockIt lacing bracket on the screw and against the HDMI connector, 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 as shown.
5. While holding the connector securely against the lacing bracket, tighten the tie wrap, then remove any excess length.

D **Audio connector** — Connect powered speakers or an amplifier to this 5-pole captive screw connector for de-embedded analog, balanced or unbalanced stereo output (see **figure 4** on page 5 for wiring instructions).

E **RS-232 COM control port** — Connect this port to the serial port of a display to enable bidirectional communication and control via RS-232 (see **figure 5** on page 5 to wire the COM port).

F **IR control port** — To control displays via infrared (IR) commands from the WC Pro 160, connect a single or dual IR emitter to this port, with a maximum of 50 feet (15 m) distance from port to emitter (see **figure 6** on page 6 for wiring instructions). The IR port provides unidirectional IR signal output to control a display.

NOTE: When two single IR emitters are wired to this port, the emitters must be wired in series. Parallel configurations of single IR emitters are not supported.

G **Digital input and output ports** — The D I/O ports are software configurable for four modes: input, input with pull-up, output, and output with pull-up. They support two digital inputs or outputs (see **Digital I/O connectors** on page 6 for cabling and protocol).

- **Digital input** — Use to connect a sensor, such as a room occupancy sensor, or a switch, such as a push-button device that can be configured to be triggered by a press or release of the button.
- **Digital output** — Use as an output to control LEDs or other devices that accept a transistor-to-transistor (TTL) logic signal. They can also provide contact closure control for projector lifts, motorized screens, or room and light switches.

> **NOTE:** The full Digital I/O configuration requires LinkLicense for WC Pro Control Processor and GCP software. To obtain the LinkLicense, contact your Extron representative.
>
> Without the LinkLicense, this port provides one digital input for an occupancy sensor: pins 1 and G. It receives a control voltage of 0-24 VDC.

H **+V OUT connector** — If using an occupancy sensor or other device that requires + 24 V power and does not have a power supply, wire its power connector to the rear panel +V OUT (+24 VDC output) connector (see **figure 1** on page 1).

I **LAN/PoE port** — Connect the controller to a network via the LAN port for remote monitoring and configuration of the system, to control an Ethernet-enabled product, or to power the controller (see **Step 4. Set up the WC Pro 160 for Network Communication** on page 7 for cabling and protocol).

Front Panel Features

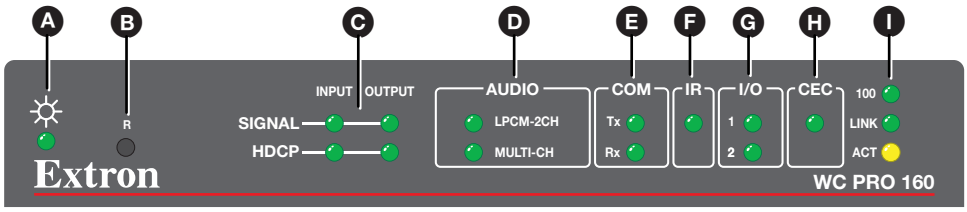


Figure 3. Front Panel

The WC Pro 160 front panel contains the recessed **Reset** button and the following status indicator LEDs:

A **Power and Reset LED** — This green LED lights steadily when the unit is powered on, and blinks to indicate the reset mode.

B **Reset button** — Using a stylus or a small screwdriver such as an Extron Tweeker, press this button to select the reset mode (see **Reset and Recovery Modes** on page 14 for mode definitions).

C **INPUT and OUTPUT LEDs** — These green LEDs light steadily to indicate:

- **Signal** — An input or output signal is present. If video and sync are both muted, the OUTPUT LED does not light.
- **HDCP** — The input or output signal has HDCP-encrypted content.

D **AUDIO LEDs** — These green LEDs light to indicate that an embedded audio signal is present in the output signal and whether it is two-channel (LPCM-2CH) or multi-channel (Multi-CH).

E **COM LEDs** — These green LEDs blink when data is being transmitted (Tx) and received (Rx).

F **IR LED** — This green LED lights when an IR signal is being transmitted.

G **I/O LEDs 1 and 2** — Each of these green LEDs lights when a digital input or output device is connected to the corresponding port and the logic state of that port is **low** (see the *WC Pro 160 User Guide* for more information.)

H **CEC LED** — This green LED lights while a CEC command is being sent to control the display.

I **LAN LEDs** — The LINK and ACT LEDs are also on the rear panel RJ-45 connector (see **figure 2**, **I** on page 2).

- **100** — This green LED lights when the unit has a 100Base-T connection.
- **LINK** — This green LED lights to indicate a network connection.
- **ACT** — This yellow LED blinks to indicate data is being sent or received.

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Installation Steps

ATTENTION:

- Installation and service must be performed by authorized personnel only.
- L'installation et l'entretien doivent être effectués uniquement par un technicien qualifié.

Step 1: Get Ready

Use the following check list to prepare for the installation.

1. **Download Extron device drivers as needed for the internal web pages.**

   The WC Pro 160 features internal web pages, which enable certain settings of the WC Pro controller to be configured via a LAN connection. Extron loaded drivers are available on the `Display Control` page. If a driver is needed that is not pre-loaded, the user can search and download a new or updated driver, then import it via the internal web pages. Web-Based Automation Drivers are different from GCP drivers and give a **link to the Extron site to download them**.

2. **If the WC Pro 160 is fully configured with LinkLicense, download and install the latest version of the following:**

   NOTE: Ensure the LinkLicense files are downloaded and ready.

   - **Global Configurator Professional or Global Configurator Plus software** — For setting up and configuring the controller. GC includes a link to the **Toolbelt** utility (also available as a standalone program) and a way to upgrade the firmware of the controller. You must have an Extron Insider account. Contact an Extron support representative to obtain GC software (see **Locating Software, Firmware, and Driver Files on the Extron Website** on page 14).
   - **IP Link Pro device drivers** — For use with GC (Professional or Plus), to make control of other devices possible.

   All are available from **www.extron.com** (see **Locating Software, Firmware, and Driver Files on the Extron Website**).

4. Obtain network information for the unit from the network administrator. You need the following details for each WC Pro 160:
   - DHCP setting (on or off)
   - WC Pro 160 IP address (if DHCP is off)
   - Subnet mask
   - Gateway IP address
   - Username
   - Passwords
5. Write down the MAC address of each IP Link Pro device to be used, such as TLPs and NBPs.
6. Obtain model names and setup information for devices the WC Pro 160 will control.

ATTENTION:

- If the controller will be installed into fine furniture, it is best to hire a licenced, bonded craftsperson to cut the access hole and perform the physical installation so the surface will not be damaged.
- S'il est prévu d'installer le contrôleur dans du beau mobilier, il est préférable de faire appel à un artisan autorisé et qualifié pour couper le trou d'accès et réaliser l'installation de telle façon que la surface ne soit pas endommagée.
- Follow all national and local building and electrical codes that apply to the installation site.
- Respectez tous les codes électriques et du bâtiment, nationaux et locaux, qui s'appliquent au site de l'installation.

Step 2: Mount or Place the Unit

Mount the WC Pro 160 on a wall, rack, rack shelf, or furniture. Mounting kits (such as the Extron MBU 125) are available at **www.extron.com**.

TIP: To wall-mount the WC Pro 160, place the bottom panel of the unit against the wall, using the Extron MBU 125 Under Desk Mounting Brackets kit (provided with the unit). Other mounting kits and instructions are available at **www.extron.com**.

Americans with Disabilities Act (ADA) Compliance

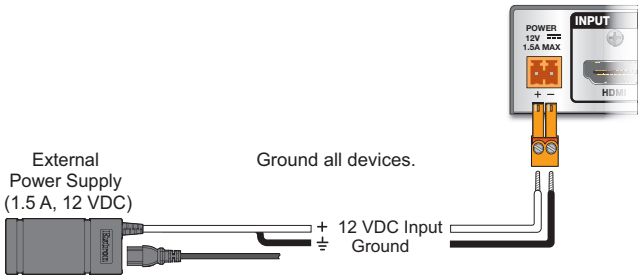
When planning where to install the WC Pro 160, you may need to consider factors affecting accessibility of the controller such as height from the floor, distance from obstructions, and how far a user must reach to insert a connector. For guidelines, see sections 307 ("Protruding Objects") and 308 ("Reach Ranges") of the *2010 ADA Standards for Accessible Design* available at **https://www.ada.gov/regs2010/2010ADAStandards/2010ADAStandards.pdf**.

Step 3: Connect All Devices

Cable devices to the controller and connect power cords and power on all the devices:

ATTENTION:

- Power over Ethernet (PoE) is intended for indoor use only. It is to be connected only to networks or circuits that are not routed to the outside plant or building.
- L'alimentation via Ethernet (PoE) est destinée à une utilisation en intérieur uniquement. Elle doit être connectée seulement à des réseaux ou des circuits qui ne sont pas routés au réseau ou au bâtiment extérieur.



- (Optional) Wire and connect the provided power supply to the two-pole rear panel POWER connector (see **figure 2**, Ⓐ on page 2, and the image above, right).
- Connect an HDMI source to the INPUT connector (Ⓑ).
- Connect an HDMI display to the rear panel OUTPUT connector (Ⓒ).
- Connect powered speakers or an amplifier to the 5-pole AUDIO output connector (Ⓓ, and figure 4).

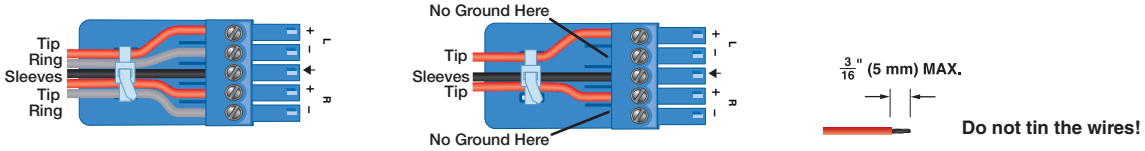


Figure 4. Wiring for Balanced Audio

- Connect control devices to the rear panel COM, IR, D I/O, and +V OUT ports as needed.

NOTE: The WC Pro 160 can be configured to send CEC, bidirectional RS-232, and IR commands, using Global Configurator Professional (see **Locating Software, Firmware, and Driver Files on the Extron Website** on page 14).

- **Bidirectional RS-232 control** — Connect the Tx, Rx, and G (ground) pins of the COM connector to the RS-232 port of a display device or switcher. See the communication sheets for your device drivers for information on compatible baud rates and cabling type and distance. These communication sheets are accessed via Global Configurator (GC) and also are available at **www.extron.com** (see the *WC Pro 160 User Guide* or the *Global Configurator Help File* to view the communication sheets and download the drivers).

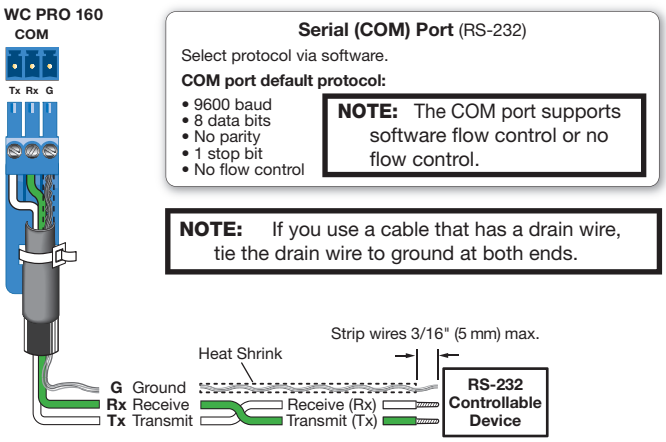


Figure 5. COM Port Wiring for RS-232 Control

- **IR control** — Connect one or two single IR emitters or one dual IR emitter to the S and G pins of the IR connector (see figure 2, F on page 2), with a maximum of 50 feet (15 meters) from port to emitter. The port provides unidirectional IR signal output to control a display, projector, switcher, or other device. Figure 6 shows a single and dual IR emitter connected to the IR port of an WC Pro 160.

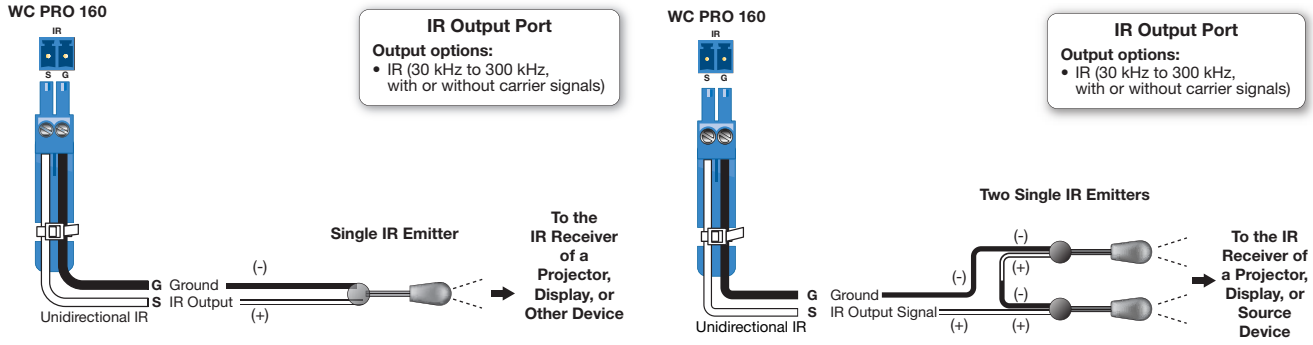


Figure 6. Connecting IR Emitters to the IR Port

- **Digital I/O connectors** — This 3-pole captive screw connector provides two digital input or output ports (plus a ground pin) to connect sensors, switches, or contact closure buttons (G). Each port can be configured as a digital input, output, input with pull-up, or output with pull-up, via Global Configurator. The ports enable monitoring of connected devices, and trigger functions on the controller.

  On the internal web configuration page, digital input 1 can be configured to detect an occupancy control signal from an OCS 100. If an HDMI display and an occupancy sensor are connected, the WC Pro automatically issues CEC display power On and Off commands through the HDMI/CEC output port when the connected sensor detects motion in the room. The feature can be toggled via the web configuration pages for display control power settings (see **Display Control Page** on page 11).

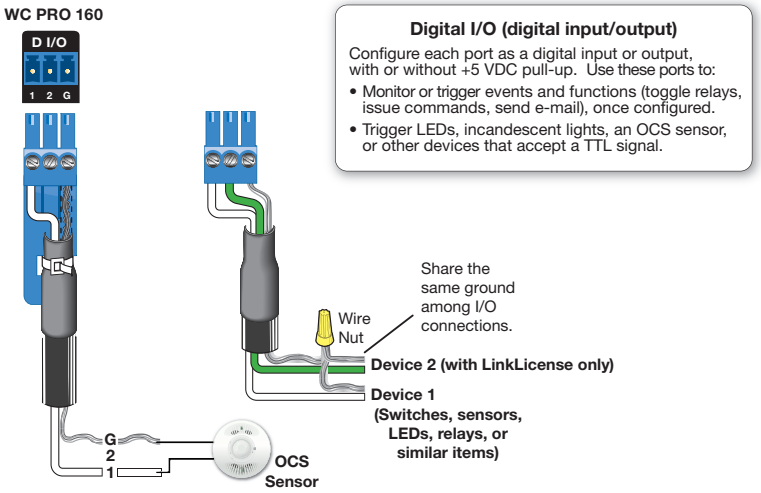


Figure 7. Wiring the Digital I/O Connectors

NOTES:

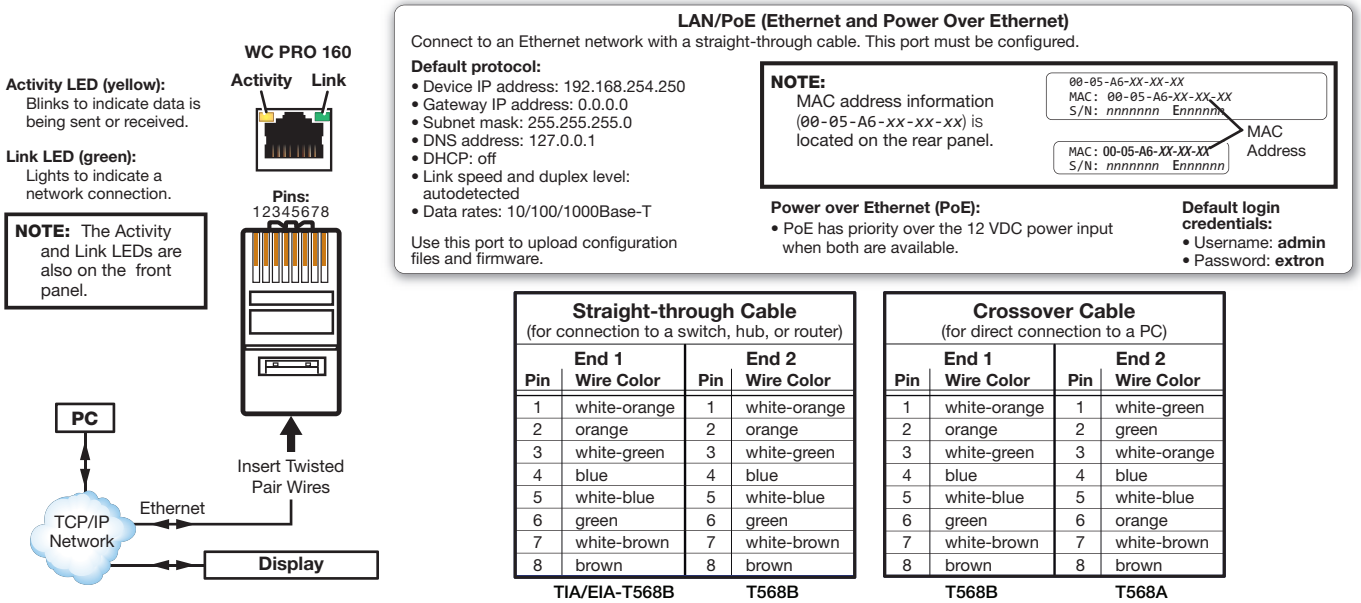
- If the digital output port is set with pull-up disabled, the voltage output is set by an external source.
- If the pull-up resistor is enabled, the voltage output is equal to approximately +4.6 V.

- Connect a digital input or output device (such as a switch, relay device, or sensor) to pin 1 or 2 and to a G (ground) pin on the D I/O connector (see figure 7).
- (Optional) If using an occupancy sensor or other device that requires + 24 V power and does not have a power supply, wire its power connector to the WC Pro 160 rear panel +V OUT connector (H and **figure 1** on page 1). The maximum current for this connector is 75 mA.

NOTE: The WC Pro 160 is shipped with digital input 1 configured to receive occupancy sensor control signals (0 to 24 VDC). Configuration of this feature can be done via the internal web pages (see **Power Settings tab** on page 11).

Step 4. Set up the WC Pro 160 for Network Communication

1. Connect a computer for setup and the WC Pro 160 to the same Ethernet subnetwork (see figure 8 to wire the LAN connector).



Straight-through Cable
(for connection to a switch, hub, or router)

End 1		End 2	
Pin	Wire Color	Pin	Wire Color
1	white-orange	1	white-orange
2	orange	2	orange
3	white-green	3	white-green
4	blue	4	blue
5	white-blue	5	white-blue
6	green	6	green
7	white-brown	7	white-brown
8	brown	8	brown

TIA/EIA-T568B T568B

Crossover Cable
(for direct connection to a PC)

End 1		End 2	
Pin	Wire Color	Pin	Wire Color
1	white-orange	1	white-green
2	orange	2	green
3	white-green	3	white-orange
4	blue	4	blue
5	white-blue	5	white-blue
6	green	6	orange
7	white-brown	7	white-brown
8	brown	8	brown

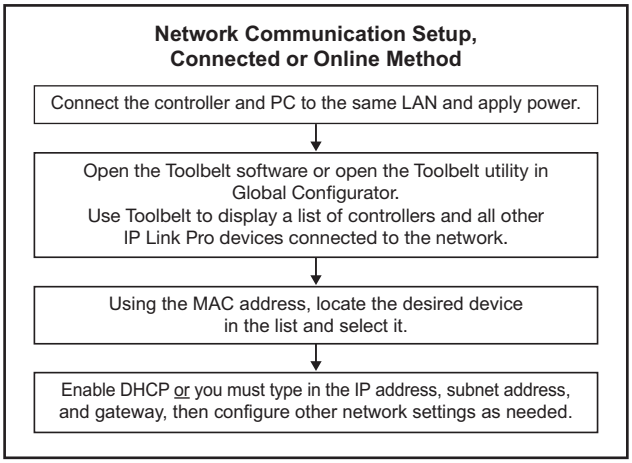
T568B T568A

Figure 8. LAN and PoE Wiring

NOTE: The factory configured passwords for all accounts on this device have been set to the device serial number. In the event of a complete system reset, the passwords convert to the default, which is `extron`.

1. Configure network settings. Network setup is essential prior to configuration. To discover the unit IP address, use one of the following methods:

   - Use the internal web pages to set the IP address, subnet, gateway IP address, DHCP status, and related settings (see **Configuring the WC Pro 160 Controller Using the Web Pages** on page 8).
   - Use the Toolbelt utility to set these network parameters (access Toolbelt either via Global Configurator or by opening the stand-alone Toolbelt program). Use the flowchart at right as a guide to setting up the controller for network use.
   - To identify the IP address without using Extron software, do either of the following.
     - Use the default IP address (192.168.254.250).
     - Enable DHCP using the **`Reset`** button (see **Enable or Disable DHCP** on page 14).



NOTE: When setting up DHCP during network configuration or if using a host name instead of an IP address during project recovery, you must enter a qualified host name (*`hostname.domain`*). For example: `somename.somedomain.com`.

   - Use the WC Pro hostname to access the web page as follows:

     a. Enable DHCP using the **`Reset`** button (see **Enable or Disable DHCP**). (From the factory, DHCP is disabled, with a static IP address: 192.168.254.250.)

     b. When DHCP is enabled and the device is connected to the network, enter the host name URL into a web browser window.

     The Extron default hostname is the product model name followed by last six digits of MAC address. For example, `WC-PRO-160-`*`nn-nn-nn`* for the base model, or `WC-PRO-160-with-LinkLicense-`*`nn-nn-nn`* for the device with LinkLicense. WC-PRO-160-*xx-xx-xx*.extron.com (`extron.com` is the domain, and *xx-xx-xx* are the last three character pairs of the MAC address, located on the MAC address label on the WC Pro).

   - Download and install PCS on the computer. PCS can be used to find a new device for network settings and to configure AV settings on the WC Pro 160 (see the *WC Pro 160 User Guide* for the downloading procedure).

Step 5: Configure the WC Pro 160

- **Using the internal web pages** — The user can configure and monitor settings of the WC Pro via a LAN connection. Use a web browser to view the pages on a PC or any other mobile device connected to the device LAN port or the same network. The internal web page provides configuration panels for the date and time, network connections, passwords, and firmware update. It also provides pages for EDID and display control, editable drop-down panels and buttons to backup, restore, reboot and reset the unit. For simple configuration of the WC Pro, use the internal web pages (see **Configuring the WC Pro 160 Controller Using the Web Pages**).
- **Using Extron PCS** — This software package can be used for optional AV configuration.
- **Using Extron Global Configurator** — For advanced software configuration use Extron Global Configurator (Global Configurator Professional [GC Professional] or Global Configurator Plus [GC Plus]). This software packages requires the appropriate LinkLicense to download and use (see **Configuring with LinkLicense** on page 13).

  Configuring using Global Configurator:

  The most basic steps are outlined below in the recommended order. See the *Global Configurator Help File* as needed for step-by-step instructions and detailed information.

  1. Using GC, create a new GC Plus or GC Professional project and configure the controller and any installed IP Link Pro devices. The configuration tells the controller how its ports function, how to control other products, what to monitor, when to do things, and whom to notify, how, and under what circumstances.
     a. Configure ports on the controller.
        - Select device drivers and link them to each assigned HDMI CEC, serial, IR, or Ethernet port.
        - Configure settings (serial protocol, digital input and output, and Ethernet control settings) as needed.

     b. Set up monitors, schedules, macros, and local variables.
  2. Save the project.
  3. Build and upload the system configuration to the controller.

  To configure using Toolbelt, see the *Toolbelt Help File*.

The software applications are available at **www.extron.com**. See the software program help file for instructions on configuring the WC Pro 160.

Step 6: Test and Troubleshoot

1. Test the system. If the controller is connected to a network, ensure that the yellow Activity LED and green Link LED light on the LAN/PoE port or on the front panel are on and blinking.
2. Make adjustments to wiring or configuration as needed. Remember that if the unit is mounted to a wall behind the display, the rear panel ports may not be accessible after the controller is mounted.

Configuring the WC Pro 160 Controller Using the Web Pages

The WC Pro 160 features an internal web server, displayed as web pages. Use this page to monitor and adjust settings of the WC Pro via a LAN connection. The web pages are always available and cannot be erased or overwritten. Use a web browser to view the pages on a computer connected to the WC Pro 160 LAN port.

NOTE: The internal web pages do not support compatibility mode in Microsoft® Internet Explorer®. Extron recommends using Microsoft Edge®, Mozilla® Firefox®, Apple® Safari®, or Google Chrome™.

Accessing the Web Pages

Access the WC Pro receiver internal web pages as follows:

1. Connect the WC Pro device to a LAN using the rear panel RJ-45 LAN port (see **figure 2**, ❶ on page 2).
2. Open a web browser on a computer connected on the same LAN.
3. Enter the WC Pro IP address in the browser **`Address`** field.

   NOTE: If the local system administrators have not changed the value, the factory-specified default is `192.168.254.254` for the rear panel LAN port.

4. Press the <**Enter**> key on the keyboard. The web password page opens.

NOTES:

- If this is the first time accessing the internal web pages, the Universal Access Key (UAK) panel opens on top of the web page.
- If the LinkLicense for WC Pro Control Processor was purchased and uploaded in Toolbelt prior to opening the internal web pages, the device opens directly to the login page. The UAK is not needed.

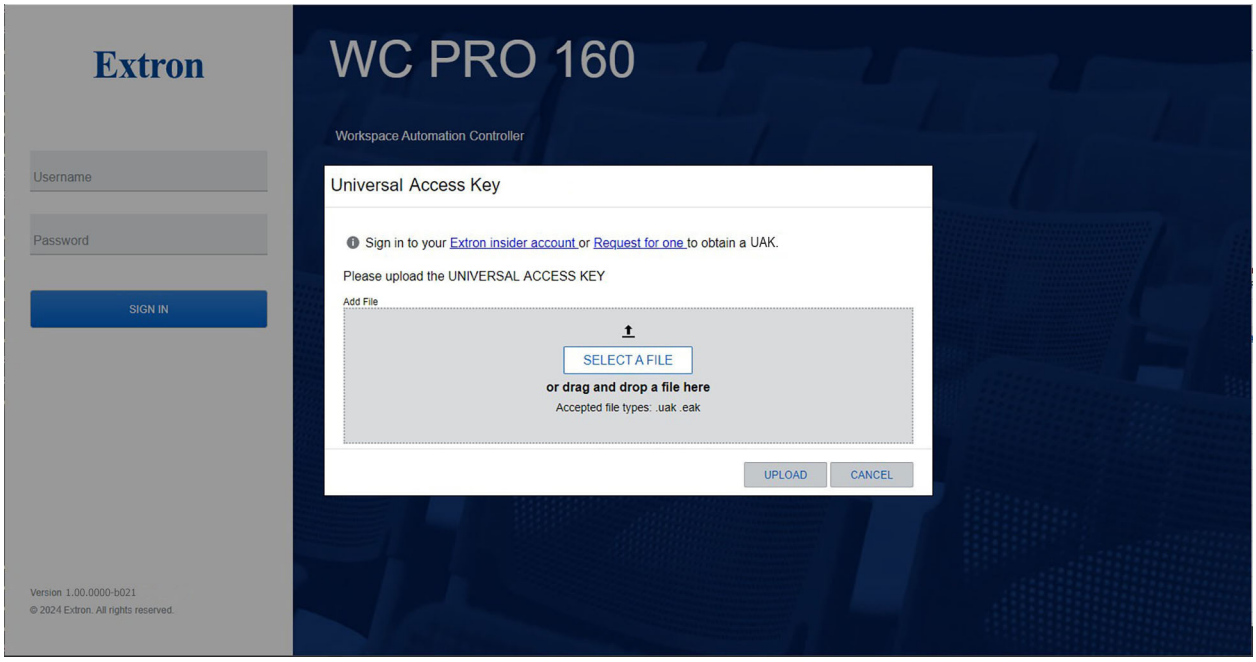


Figure 9. Network Password Prompt

a. Select **Extron insider account** to sign in. If you do not have an Extron insider account, select **Request for one**. These links open a page on the Extron website.

b. Once signed in to the Extron insider account, click the **Universal Access Key** link.

c. Click the **Retrieve a New Universal Access Key** button to request a UAK. A UAK file (with a filename consisting of the expiration date and a .uak extension) is placed in the Downloads folder on the computer.

d. Once the UAK is received, click **SELECT A FILE** to open the Downloads folder.

e. Either double-click the UAK file in the Downloads folder or drag and drop the file from the folder to the Add File panel.

f. Click **UPLOAD**.

5. The WC Pro is password protected. Enter **admin** or **user** in the **Username** field and the password in the **Password** field when prompted. Click the **Sign in** button.

NOTE: The factory configured passwords for all accounts on this device have been set to the device serial number. In the event of a complete system reset, the passwords convert to the default, which is extron.

Web Page Panels

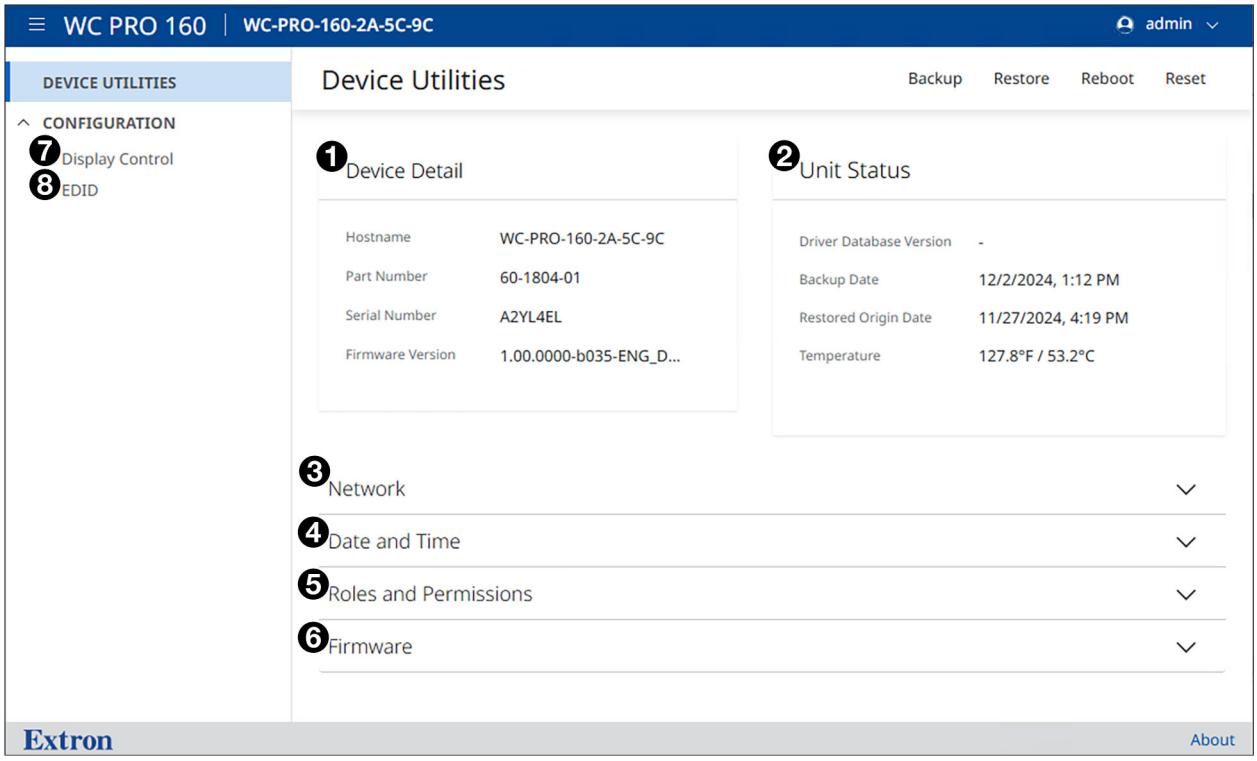
The WC Pro 160 internal web pages open to the Device Utilities page (see figure 10), which provides a read-only overview of the WC Pro 160, with some editable drop-down panels. Access the drop-down panels by clicking on the name of the panel or the arrow on the right side of the page. When a panel is expanded, an **EDIT** button appears on it. Click this button to display additional settings that can be edited.

There are also **Display Control** and **EDID** links in the left column that open pages to configure the connection, power settings and schedules, as well as assigning EDIDs.

NOTE: For complete details and instructions on using all web page panels, see the *WC Pro 160 User Guide*, available at www.extron.com.

Device Utilities page

NOTE: If the LinkLicense for WC Pro Control Processor was purchased and a GCP file was configured and uploaded to the device, the pages are view only, and the left **DEVICE UTILITIES** and **CONFIGURATION** panel is not available. All configuration is done using GCP. To return the device to web based configuration, reset the unit.



❶ **Details Panel**
❷ **Unit Status Panel**
❸ **Date and Time Panel**
❹ **Network Panel**
❺ **Roles and Permissions Panel**
❻ **Firmware Panel**
❼ **Display Control Page link**
❽ **EDID Page link**

Figure 10. WC Pro 160 Internal Web Page

❶ **Details Panel** — Displays the device name (Hostname), the product part number, the unit serial number, and the firmware version. The Universal Access Code expiration date also is displayed if no LinkLicense has been applied.

❷ **Unit Status Panel** — Displays the dates of the last backup and the origin restore. It also displays the internal temperature of the unit.

❸ **Date and Time Panel** — Displays the mode used to set the date and time, the current date, and current time. There are three options to set the date and time: manual mode, sync to NTP (Network Time Protocol) servers, and sync to the connected computer.

❹ **Network Panel** — Lets you change the device name and edit the IP address, subnet mask, gateway address, DNS servers, and search domain name for the WC Pro 160, or turn DHCP **On** and **Off**.

❺ **Roles and Permissions Panel** — Shows whether `Admin` and `User` passwords have been set and provides an option to set administrator or user passwords. It does not display the actual password.

❻ **Firmware Panel** — Displays the current firmware version and the date it was last updated. Update the firmware on the WC Pro 160 from this panel (see the *WC Pro 160 User Guide*, available at **www.extron.com**, for instructions).

❼ **Display Control Page link** — Click this link to open the `Display Control` page.

❽ **EDID Page link** — Click this tab to open the `EDID` page.

Click the **`About`** link in the lower-right corner of the screen to open the `About` dialog box and view general information about the WC Pro 160, such as the firmware version, copyright, part number, licenses, patents and web pages version. Click the **`View the End User License Agreement`** link to view the user license.

Display Control page

The Display Control page (see figure 11) has three tabs to connect a display, turn power on and off via the occupancy sensor, and create schedules to turn the display on and off. When the **DISPLAY CONTROL** tab is selected, the page opens to the Connection page, on which drivers that have been loaded are listed. If no drivers are displayed, see **Resources** on page 14 or contact your Extron representative for information on obtaining them.

NOTE: If the LinkLicense for WC Pro Control Processor was purchased and a GCP file was configured and uploaded to the device, the pages are view only, and the left **DEVICE UTILITIES** and **CONFIGURATION** panel is not available. All configuration is done using GCP. To return the device to web based configuration, reset the unit.

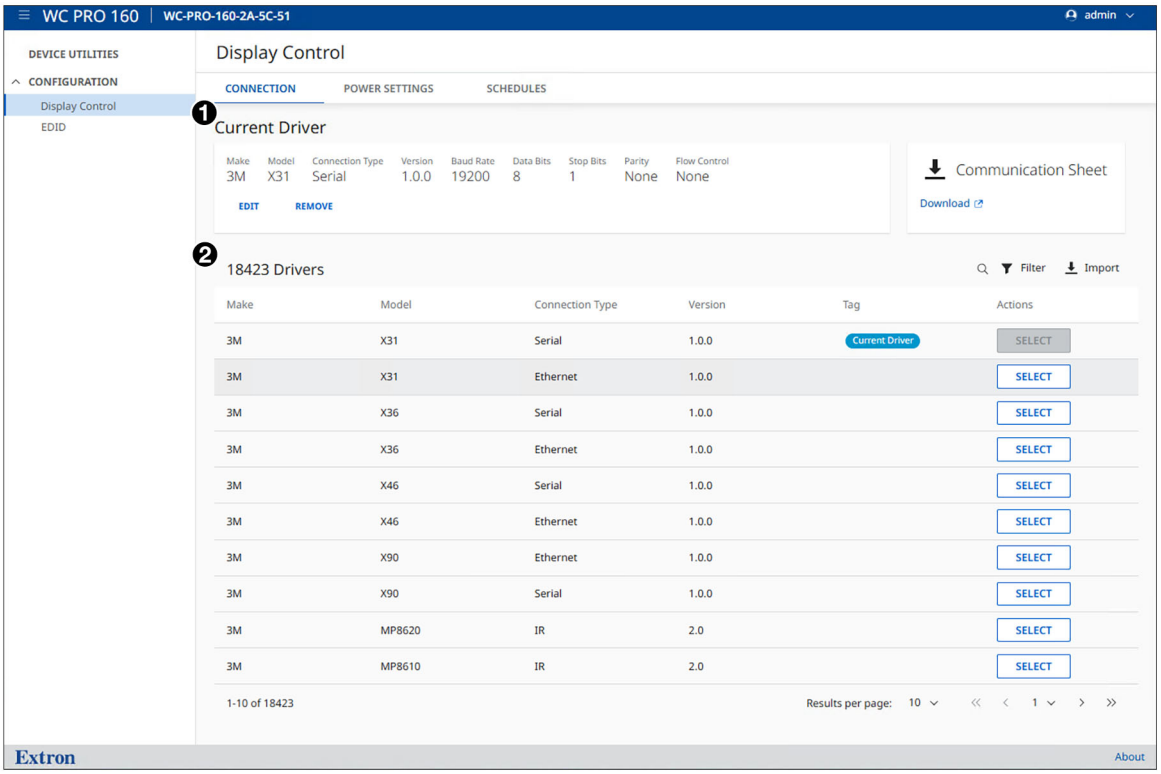


Figure 11. Display Control Page

- **Connection tab** — Select this tab to display the Connection panel, on which to view the current driver and download its communication sheet (see figure 11, ❶), or locate, select and configure drivers for the connected display (❷).

  To select a driver on the CONNECTION screen:

  1. Locate the desired driver on the drivers list. Search and filter tools are provided.
  2. Click the **SELECT** button for the desired driver. The selected driver name and information appear in the Current Driver panel.

- **Power Settings tab** — Click this tab to display the Power Settings panel to configure the WC Pro 160 to turn the display on and off based on the room occupancy or HDMI signal presence (see figure 12).

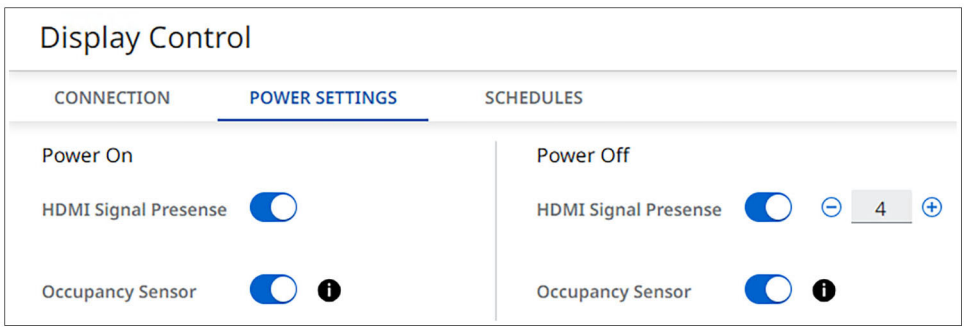


Figure 12. Power Settings Panel

By default, digital input 1 is configured to detect the occupancy control signal from an OCS 100. To use this feature, wire an Extron OCS 100 occupancy sensor to D I/O port 1 on the rear panel. If the connected OCS 100 detects that the room is occupied, the WC Pro sends a CEC command to power on the display device.

- **Schedules panel** — Select this tab to create schedules to turn the display on and off at selected times and days.

EDID page

NOTE: If the LinkLicense for WC Pro Control Processor was purchased and a GCP file was configured and uploaded to the device, the pages are view only and the left side `Dashboard` is not available. All configuration must be done using GCP. To return the device to web based configuration, reset the unit.

The `EDID` page allows the user to assign EDID to the input. The preferred source resolution can be changed between the resolutions (all HDMI video) shown on the page. The currently assigned EDID properties can also be viewed.

This EDID panel supports only changing the preferred source resolution between the four EDIDs shown on the EDID page. These are all HDMI video type. EDID files can be uploaded to the WC Pro 160 using PCS (see the *WC Pro 160 PCS Help File* for more information).

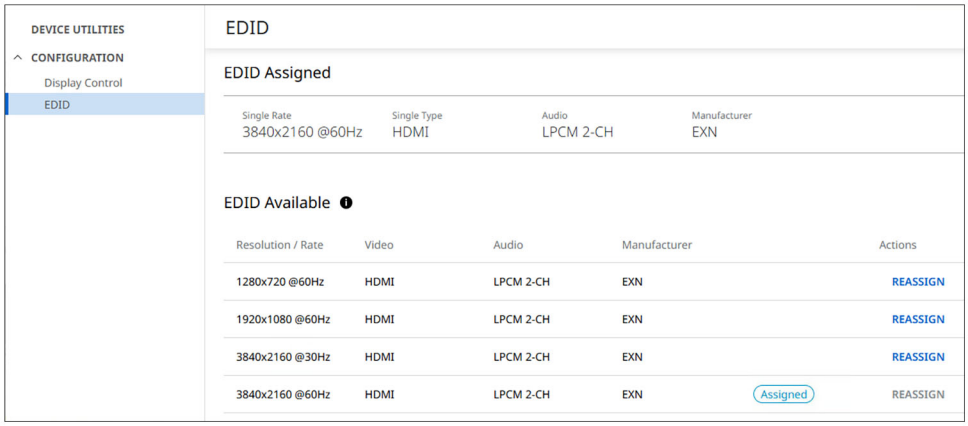


Figure 13. EDID Page

Configuring with LinkLicense

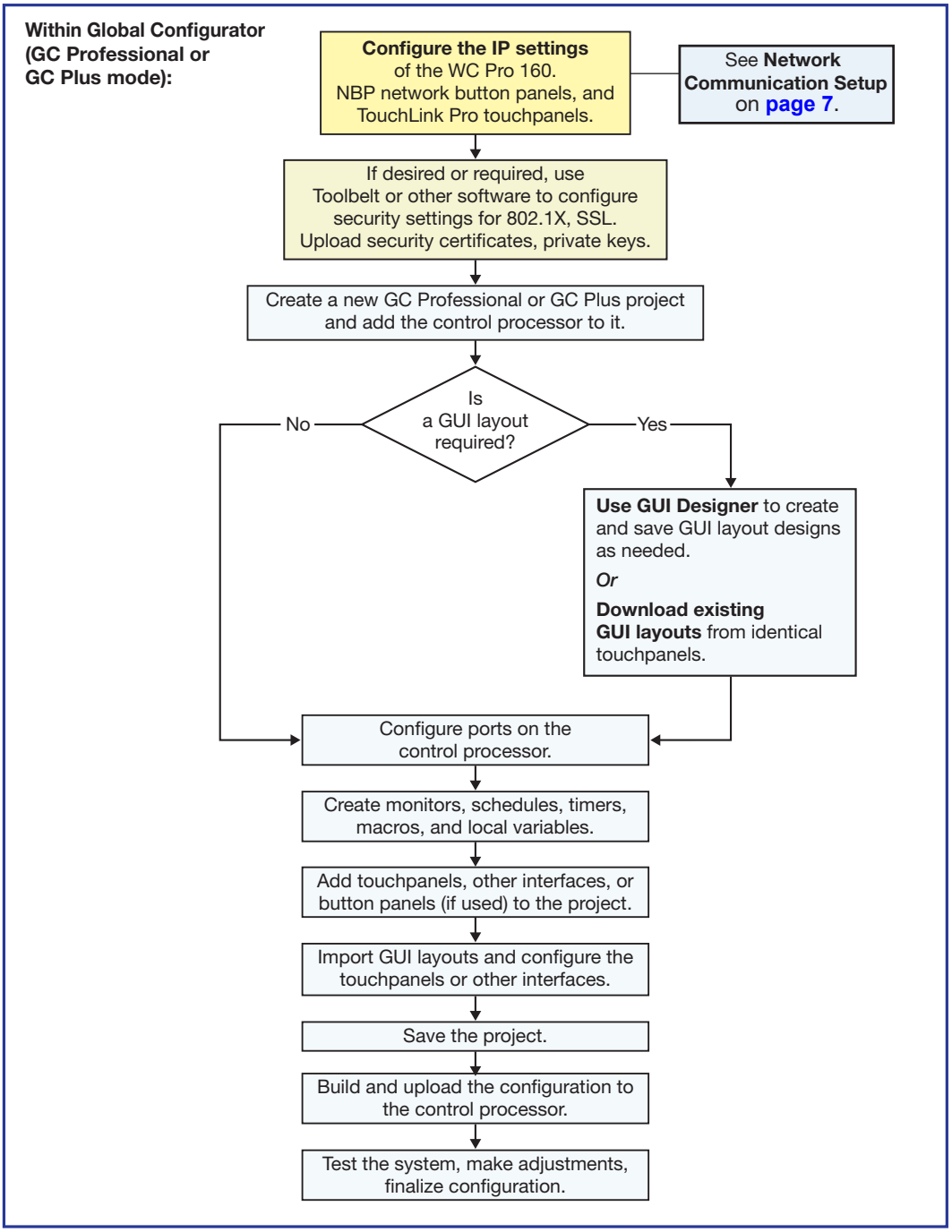


Figure 14. Overall Configuration Steps

WC Pro 160 • Setup Guide

Reset and Recovery Modes

- **Use Factory Firmware** — Press and hold the front panel **Reset** button while applying power to the unit. Use this mode to revert to factory firmware in the event of a firmware failure.
- **Reset to Factory Defaults** — Press and hold the front panel **Reset** button until the Reset LED blinks three times (once at 3 seconds, twice at 6 seconds, and three times at 9 seconds). Release, then momentarily press and release the **Reset** button within 1 second. Use this mode to return the controller to factory default settings.
- **Reset All IP Settings** — Press and hold the front panel **Reset** button until the Reset LED blinks two times (once at 3 seconds, then twice at 6 seconds). After the second blink, release, then momentarily press and release the **Reset** button within 1 second. Use this mode to reset all network settings to factory default values without affecting user-loaded files.
- **Start or Stop Program** — Press and hold the front panel **Reset** button until the Reset LED blinks once (approximately 3 seconds). Release, then momentarily press and release the **Reset** button within 1 second. The Reset LED blinks twice times if the program is starting. The Reset LED blinks three times if the program is stopping. Use this mode to start or stop the user loaded program running.
- **Project Recovery** — Press the front panel **Reset** button three times within 1 second. The Reset LED blinks for 30 seconds, while the device is in project recovery mode. After the Reset LED stops blinking and remains lit, the device returns to the previous state with no settings changed. Use this mode to recover project or program files if a product password is lost.
- **Enable or Disable DHCP** — Press the front panel **Reset** button five times consecutively. The Reset LED blinks six times if the DHCP Client status is enabled. The Reset LED blinks three times if it is disabled.

NOTE: This reset mode is useful for devices without GC LinkLicense. It enables network settings configuration without Toolbelt or PCS.

Resources

- **Obtaining Control Drivers** — Extron provides a large selection of device drivers available on the **Extron website**. If the system requires a control driver that is not already available, request a new serial (RS-232), IR, or Ethernet driver from Extron.
- **Obtaining Instructions, Information, and Assistance** — A checklist of basic setup steps is provided in this guide. For additional information see the help files and the *WC Pro 160 User Guide*, available at **www.extron.com**.
- **Locating Software, Firmware, and Driver Files on the Extron Website** — Software, firmware, and device drivers can be obtained on **www.extron.com** via links from the product web page, the **Download** page (click the **Download** tab at the top of any page within **www.extron.com**) or links from search results.

NOTES:

- To use Global Configurator (available to run in GC Plus mode) software, you must have an Extron Insider account. Contact an Extron support representative for assistance, if you do not have an account. Extron provides training to our customers on how to use the software. Access to the full features of Global Configurator Professional is available to users who successfully complete Extron Control Professional Certification.
- IP Link Pro Series RS-232 and Ethernet drivers are required. You must use serial and Ethernet drivers developed specifically for the IP Link Pro platform. With the exception of IR device drivers, drivers used for the previous generation IP Link (non-Pro) controllers are not compatible.

If you have questions during installation and setup, call the Extron S3 Sales & Technical Support Hotline or the Extron S3 Control Systems Support Hotline (1.800.633.9877).

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.

Worldwide Headquarters: Extron USA West, 1025 E. Ball Road, Anaheim, CA 92805, 800.633.9876

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