

Wireless Collaboration Systems

ShareLink 200 N


Collaboration Gateway – Network Version


PRELIMINARY



Safety Instructions


Safety Instructions • English


WARNING: This symbol, , when used on the product, is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

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.

For information on safety guidelines, regulatory compliances, EMI/EMF compatibility, accessibility, and related topics, see the Extron Safety and Regulatory Compliance Guide, part number 68-290-01, on the Extron website, www.extron.com.


Sicherheitsanweisungen • Deutsch


WARNUNG: Dieses Symbol , auf dem Produkt soll den Benutzer darauf aufmerksam machen, dass im Inneren des Gehäuses dieses Produktes gefährliche Spannungen herrschen, die nicht isoliert sind und die einen elektrischen Schlag verursachen können.

VORSICHT: Dieses Symbol , auf dem Produkt soll dem Benutzer in der im Lieferumfang enthaltenen Dokumentation besonders wichtige Hinweise zur Bedienung und Wartung (Instandhaltung) geben.

Weitere Informationen über die Sicherheitsrichtlinien, Produkthandhabung, EMI/EMF-Kompatibilität, Zugänglichkeit und verwandte Themen finden Sie in den Extron-Richtlinien für Sicherheit und Handhabung (Artikelnummer 68-290-01) auf der Extron-Website, www.extron.com.


Instrucciones de seguridad • Español


ADVERTENCIA: Este símbolo, , cuando se utiliza en el producto, avisa al usuario de la presencia de voltaje peligroso sin aislar dentro del producto, lo que puede representar un riesgo de descarga eléctrica.

ATENCIÓN: Este símbolo, , cuando se utiliza en el producto, avisa al usuario de la presencia de importantes instrucciones de uso y mantenimiento recogidas en la documentación proporcionada con el equipo.

Para obtener información sobre directrices de seguridad, cumplimiento de normativas, compatibilidad electromagnética, accesibilidad y temas relacionados, consulte la Guía de cumplimiento de normativas y seguridad de Extron, referencia 68-290-01, en el sitio Web de Extron, www.extron.com.


Instructions de sécurité • Français


AVERTISSEMENT : Ce pictogramme, , lorsqu'il est utilisé sur le produit, signale à l'utilisateur la présence à l'intérieur du boîtier du produit d'une tension électrique dangereuse susceptible de provoquer un choc électrique.

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 le matériel.

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


AVVERTENZA: Il simbolo, , se usato sul prodotto, serve ad avvertire l'utente della presenza di tensione non isolata pericolosa all'interno del contenitore del prodotto che può costituire un rischio di scosse elettriche.

ATTENZIONE: Il simbolo, , se usato sul prodotto, serve ad avvertire l'utente della presenza di importanti istruzioni di funzionamento e manutenzione nella documentazione fornita con l'apparecchio.

Per informazioni su parametri di sicurezza, conformità alle normative, compatibilità EMI/EMF, accessibilità e argomenti simili, fare riferimento alla Guida alla conformità normativa e di sicurezza di Extron, cod. articolo 68-290-01, sul sito web di Extron, www.extron.com.


Instrukcje bezpieczeństwa • Polska


OSTRZEŻENIE: Ten symbol, , gdy używany na produkt, ma na celu poinformować użytkownika o obecności izolowanego i niebezpiecznego napięcia wewnątrz obudowy produktu, który może stanowić zagrożenie porażenia prądem elektrycznym.

UWAGI: Ten symbol, , gdy używany na produkt, jest przeznaczony do ostrzegania użytkownika ważne operacyjne oraz instrukcje konserwacji (obsługi) w literaturze, wyposażone w sprzęt.

Informacji na temat wytycznych w sprawie bezpieczeństwa, regulacji wzajemnej zgodności, zgodność EMI/EMF, dostępności i Tematy pokrewne, zobacz Extron bezpieczeństwa i regulacyjnego zgodności przewodnik, część numer 68-290-01, na stronie internetowej Extron, www.extron.com.


Инструкция по технике безопасности • Русский


ПРЕДУПРЕЖДЕНИЕ: Данный символ, , если указан на продукте, предупреждает пользователя о наличии неизолированного опасного напряжения внутри корпуса продукта, которое может привести к поражению электрическим током.

ВНИМАНИЕ: Данный символ, , если указан на продукте, предупреждает пользователя о наличии важных инструкций по эксплуатации и обслуживанию в руководстве, прилагаемом к данному оборудованию.

Для получения информации о правилах техники безопасности, соблюдении нормативных требований, электромагнитной совместимости (ЭМП/ЭДС), возможности доступа и других вопросах см. руководство по безопасности и соблюдению нормативных требований Extron на сайте Extron: www.extron.com, номер по каталогу - 68-290-01.

安全说明 • 简体中文

警告:  产品上的这个标志意在警告用户该产品机壳内有暴露的危险电压, 有触电危险。

注意:  产品上的这个标志意在提示用户设备随附的用户手册中有重要的操作和维护(维修)说明。

关于我们产品的安全指南、遵循的规范、EMI/EMF 的兼容性、无障碍使用的特性等相关内容, 敬请访问 Extron 网站, www.extron.com, 参见 Extron 安全规范指南, 产品编号 68-290-01。

安全記事 • 繁體中文

警告: ⚠ 若產品上使用此符號, 是為了提醒使用者, 產品機殼內存在著可能會導致觸電之風險的未絕緣危險電壓。

注意: ⚠ 若產品上使用此符號, 是為了提醒使用者, 設備隨附的用戶手冊中有重要的操作和維護 (維修) 說明。

有關安全性指導方針、法規遵守、EMI/EMF 相容性、存取範圍和相關主題的詳細資訊, 請瀏覽 Extron 網站: www.extron.com, 然後參閱《Extron 安全性與法規遵守手冊》, 準則編號 68-290-01。

安全上のご注意 • 日本語

警告: この記号 ⚠ が製品上に表示されている場合は、筐体内に絶縁されていない高電圧が流れ、感電の危険があることを示しています。

注意: この記号 ⚠ が製品上に表示されている場合は、本機の取扱説明書に 記載されている重要な操作と保守(整備)の指示についてユーザーの注意を喚起するものです。

安全上のご注意、法規遵守、EMI/EMF適合性、その他の関連項目については、エクストロンのウェブサイト www.extron.com より『Extron Safety and Regulatory Compliance Guide』(P/N 68-290-01) をご覧ください。

안전 지침 • 한국어

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

주의: 이 기호 ⚠ 가 제품에 사용될 경우, 장비와 함께 제공된 책자에 나와 있는 주요 운영 및 유지보수(정비) 지침을 경고합니다.

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.

Copyright

© 2019 Extron Electronics. All rights reserved. www.extron.com

Trademarks

All trademarks mentioned in this guide are the properties of their respective owners.

The following registered trademarks (®), registered service marks (SM), and trademarks (TM) are the property of RGB Systems, Inc. or Extron Electronics (see the current list of trademarks on the [Terms of Use](#) page at www.extron.com):

Registered Trademarks (®)
Extron, Cable Cubby, ControlScript, CrossPoint, DTP, eBUS, EDID Manager, EDID Minder, Flat Field, FlexOS, Glitch Free, Global Configurator, Global Scriptor, GlobalViewer, Hideaway, HyperLane, IP Intercom, IP Link, Key Minder, LinkLicense, LockIt, MediaLink, MediaPort, NetPA, PlenumVault, PoleVault, PowerCage, PURE3, Quantum, Show Me, SoundField, SpeedMount, SpeedSwitch, StudioStation, System INTEGRATOR, TeamWork, TouchLink, V-Lock, VideoLounge, VN-Matrix, VoiceLift, WallVault, WindoWall, XPA, XTP, XTP Systems, and ZipClip
Registered Service Mark (SM) : S3 Service Support Solutions
Trademarks (TM)
AAP, AFL (Accu-RATE Frame Lock), ADSP (Advanced Digital Sync Processing), Auto-Image, AVEdge, CableCover, CDRS (Class D Ripple Suppression), Codec Connect, DDSP (Digital Display Sync Processing), DMI (Dynamic Motion Interpolation), Driver Configurator, DSP Configurator, DSVP (Digital Sync Validation Processing), eLink, EQIP, Everlast, FastBite, Flex55, FOX, FOXBOX, IP Intercom HelpDesk, MAAP, MicroDigital, Opti-Torque, PendantConnect, ProDSP, QS-FPC (QuickSwitch Front Panel Controller), Room Agent, Scope-Trigger, ShareLink, SIS, Simple Instruction Set, Skew-Free, SpeedNav, Triple-Action Switching, True4K, Vector 4K, WebShare, XTRA, and ZipCaddy

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.

NOTE: 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.

Conventions Used in this Guide

Notifications

The following notifications are used in this guide:

ATTENTION: Attention indicates a situation that may damage or destroy the product or associated equipment.

NOTE: A note draws attention to important information.

Specifications Availability

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

Contents

Introduction.....	1
About the ShareLink 200 N	1
Features	2

Installation.....	3
Rear Panel Features and Cabling.....	3
Front Panel Features and Cabling	4
Bottom Panel Features	5
Setting Up the Standby Screen	6
Using the Calibration Tool	7
Using the Screen Resize Tool.....	8
Using the Whiteboard Feature.....	9
Using the USB Player	10

Operation Using a Computer	11
Connecting a Computer to the ShareLink 200 N.....	11
Connecting through an External WAP	11
Connecting through a Network Hub, Switch, or Router.....	11
Setting Up the ShareLink Software	12
Running the ShareLink Lite Software	12
Downloading and Installing the ShareLink Pro Software	13
Using the ShareLink Software.....	14
Presenting the Computer Screen.....	14

Operation Using a Mobile Device.....	15
Downloading the Extron ShareLink App.....	15
Connecting to the ShareLink 200 N	15
Using the ShareLink App	16
Making Annotations	18
Using iOS Mirroring for Mobile Devices	19

Using the Embedded Web Pages.....	20
Opening the Embedded Web Pages.....	20
Watching a Presentation (WebShare)	21
Moderating a Presentation.....	22
Moderating through the Moderator Control Web Page	22
Moderating through an Extron ShareLink Driver	23
Configuring ShareLink 200 N Settings	24
Device Setup	26
Network Setup	27
SNMP Setup	28
OSD Setup	29
WebShare Setup	31
Web Page Moderator Setup	32
Admin Password	32
Firmware Update	33
Reset to Default.....	34
Reboot System.....	34

Reference Information	35
Mounting	35
Wall Mounting.....	35
Rack Mounting	36
Under-desk and Furniture Mounting.....	36
Downloading ShareLink 200 N Firmware	37
Firewall Traversal.....	38

PRELIMINARY

Introduction

This section covers the following:

- [About the ShareLink 200 N](#)
- [Features](#)

About the ShareLink 200 N

The Extron ShareLink 200 N Collaboration Gateway – Network Version allows users to present wirelessly from a mobile device or computer onto a display device. It is compatible with Windows® and macOS® computers as well as Android™ and Apple® smartphones and tablets.

The ShareLink 200 N includes a Gigabit Ethernet port for a high-speed network connection. It is designed to use an existing wireless network for simplified integration into the facility's IT infrastructure. Users connect to the room's wireless access point (WAP) through a Wi-Fi connection to access the ShareLink 200 N. This network-only version provides the same user experience as the wireless model.

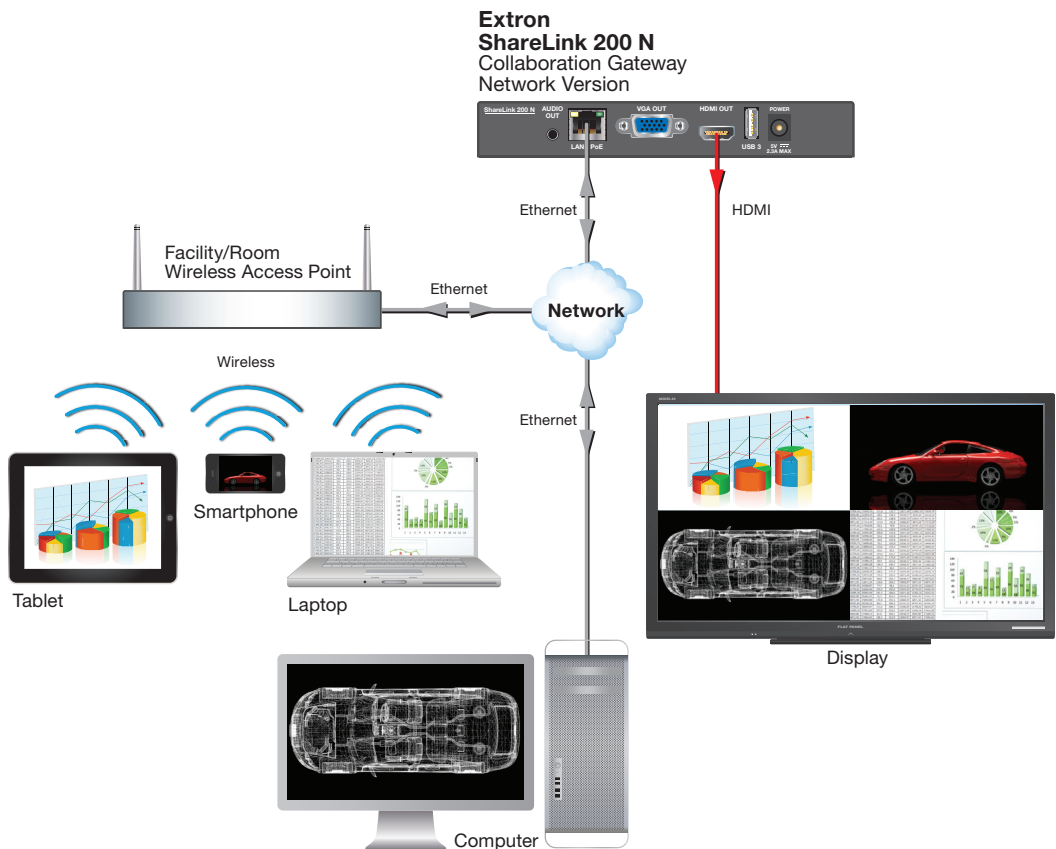


Figure 1. ShareLink 200 N Application Diagram

Features

- **Wirelessly share content from personal mobile devices** — Allows users to connect a wide variety of devices to the system wirelessly or through a wired LAN connection.
- **Outputs** — HDMI connector, 15-pin HD connector, 3.5 mm stereo audio mini jack
- **Supports Microsoft Windows and macOS computers as well as Apple and Android smartphones and tablets**
- **Full screen or four-window display** — Enables full screen display of content from a single personal device or simultaneous display of multiple devices into four windows on a single display.
- **Dropbox®, Google Drive™, iCloud®, and OneDrive™ integration within the Extron ShareLink app** — Provides easy access to content stored in the cloud.
- **Content sharing from a computer to as many as four ShareLink 200 N units** — Allows a Windows or macOS computer to send content to multiple ShareLink 200 N units on the network, supporting up to four displays.
- **iOS device mirroring** — Provides full screen mirroring for Apple iOS devices.
- **Full-motion video playback from laptops** — Enables a Windows or macOS computer to send full motion video with audio to the display for a smooth viewing experience.
- **Supports display of documents, graphics, images, and videos directly from a USB flash drive** — Enables content presentation without requiring a laptop or computer.
- **WebShare™ technology enables attendees to view slide images on personal devices via a Web browser** — Enables meeting content to display on each participant's mobile device, ensuring visibility regardless of sight lines.
- **Power over Ethernet, or PoE, eliminates the need for a local power supply** — Offers easy installation, reduced labor, and fewer devices to install. Data and power are delivered over the single cable.
- **USB ports for peripheral support** — Allows connection of a USB keyboard or mouse, and enables simple annotation capabilities with devices such as an interactive whiteboard.
- **HDMI and VGA video outputs** — Offers flexibility to work with digital and analog display devices or a system switcher to easily add wireless capabilities to existing video systems.
- **SNMP support for remote monitoring** — Supports network monitoring for the operational health of network-attached devices.

Installation

This section covers the following:

- [Rear Panel Features and Cabling](#)
- [Front Panel Features and Cabling](#)
- [Bottom Panel Features](#)
- [Setting up the Standby Screen](#)

Rear Panel Features and Cabling

The following section covers rear panel features and cabling procedures. If mounting is necessary before connecting cables, see [Mounting](#) on page 35.

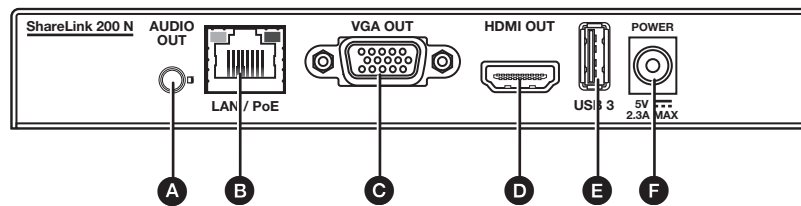


Figure 2. Rear Panel

- A Audio output** — (Optional) Connect a 3.5 mm audio output cable between this female audio jack and the audio input of a display or audio amplifier.
- B RJ-45 connector** — Use an ethernet cable to connect a network switch, hub, router, or PC to this female RJ-45 connector.
- C VGA output** — (Optional) Connect a VGA display device into this female 15-pin HD connector.
- D HDMI output** — Connect an HDMI display device into this female HDMI connector.
- E USB port** — (Optional) Connect a USB drive to this USB type A connector to present documents, photos, videos, or audio files using the ShareLink USB player feature (see [figure 4](#), [5](#) on page 6).
- F Power input** — Connect the included power supply to the power input (see the **NOTE** and **ATTENTION** on the next page for important information).

ATTENTION:

- This product is intended to be supplied by a Listed Power Unit marked “Class 2” or “LPS,” rated 5 VDC, 2.6 A minimum. Always use a power supply supplied 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.
- Ce produit est destiné à une utilisation avec une source d’alimentation listée UL avec l’appellation « Classe 2 » ou « LPS » et normée 5 Vcc, 2,6 A minimum. Utilisez toujours les sources d’alimentation recommandées 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.
- Unless otherwise stated, the AC/DC adapters are not suitable for use in air handling spaces or in wall cavities.
- Sauf mention contraire, les adaptateurs AC/DC ne sont pas appropriés pour une utilisation dans les espaces d’aération ou dans les cavités murales.
- 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. The power supply shall not be permanently fixed to a building structure or similar structure.
- 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. La source d’alimentation ne devra pas être fixée de façon permanente à une structure de bâtiment ou à une structure similaire.
- Suitable for use in environmental air space in accordance with Section 300.22.C of the National Electrical Code, and Sections 2-128, 12 010(3) and 12-100 of the Canadian Electrical Code, Part 1, C22.1.
- Convient à une utilisation dans les conduits d’aération, en accord avec la section 300.22.C du code national d’électricité américain, et avec les sections 2-128, 12-010(3) et 12-100 du code d’électricité canadien, partie 1, C22.1.
- 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.

Front Panel Features and Cabling

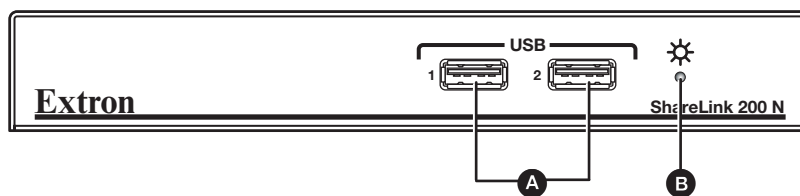


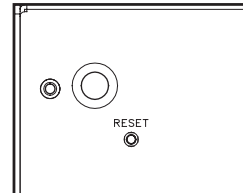
Figure 3. Front Panel

- A USB ports** — Connect a USB keyboard or mouse to these USB type A connectors to setup and control the ShareLink 200 N, and to use the Whiteboard feature (see [figure 4](#), [4](#) on page 6).
- B Power LED** — Lights green when the unit is powered on.

Bottom Panel Features

The bottom panel contains a reset button for resetting the device, if necessary. To reset the ShareLink 200 N:

1. Disconnect power from the device.
2. Press the reset button using a small tool (such as a paperclip).
3. While pressing the reset button, apply power to the device and hold the reset button down for at least 10 seconds. After 10 seconds, the reset process begins.



Setting Up the Standby Screen

Once the ShareLink 200 N is connected and powered on, the default standby screen (see figure 4) appears on the display.



Figure 4. Standby Screen

- 1 Instructional screen** — Provides instructions for starting a presentation. The background image of the instructional screen can be customized (see **OSD Setup** on page 29).
- 2 Calibration tool icon** (🖱️) — Double-click to open the Calibration tool (for touchscreens only). This feature allows you to calibrate a touchscreen for accuracy, if needed (see **Using the Calibration Tool** on the next page).
- 3 Screen Resize tool icon** (🖥️) — Double-click to use the screen resize tool. This feature allows you to change the size of the screen presented on the display (see **Using the Screen Resize Tool** on page 8).
- 4 Whiteboard icon** (📄) — Click to use the display as a whiteboard. This feature allows the presenter to draw on a blank screen using a mouse or touchscreen (see **Using the Whiteboard Feature** on page 9).
- 5 USB Player icon** (📁) — Click to access the USB Player. This feature allows the presenter to access photos, videos, audio files, and documents directly from the connected USB flash drive (see **Using the USB Player** on page 10).
- 6 IP Address** — Use this IP address to identify and access the ShareLink 200 N during connection (see **Setting up the ShareLink Software** on page 12).
- 7 Hostname** — Use this Hostname to identify and access the ShareLink 200 N during connection through the ShareLink software. This hostname can be customized in the configuration pages (see **Network Setup, 1** on page 27).
- 8 Code** — Use this code to access the ShareLink 200 N device through the software (see **Connecting a Computer to the ShareLink 200 N** on page 11). The code can be customized or disabled (see **Device Setup** on page 26).

Using the Calibration Tool

This feature allows you to calibrate a touchscreen for accuracy, if needed. To calibrate:

1. Ensure that the touchscreen is connected to the ShareLink 200 N as follows:
 - a. Connect the touchscreen to the HDMI or VGA port on the rear panel of the ShareLink (see **figure 2**, **C** and **D**, on page 3).
 - b. Connect the touchscreen to the USB port on the front panel of the ShareLink (see **figure 3**, **B** on page 4).
2. Press the calibration icon twice on the standby screen (see **figure 4**, **2**, on the previous page). The calibration screen opens:



Figure 5. Calibration Screen

3. Press the four red dots that appear on the corners of the screen. Each dot turns green after it has been pressed. The **OK** button appears after all four dots are pressed.
4. Press **OK** to return to the standby screen.

Using the Screen Resize Tool

This feature allows you to change the size of the screen presented on the display. To adjust the screen size, double-click or press the Screen Resize tool icon (see [figure 4](#), ③, on page 6).

The following screen appears:

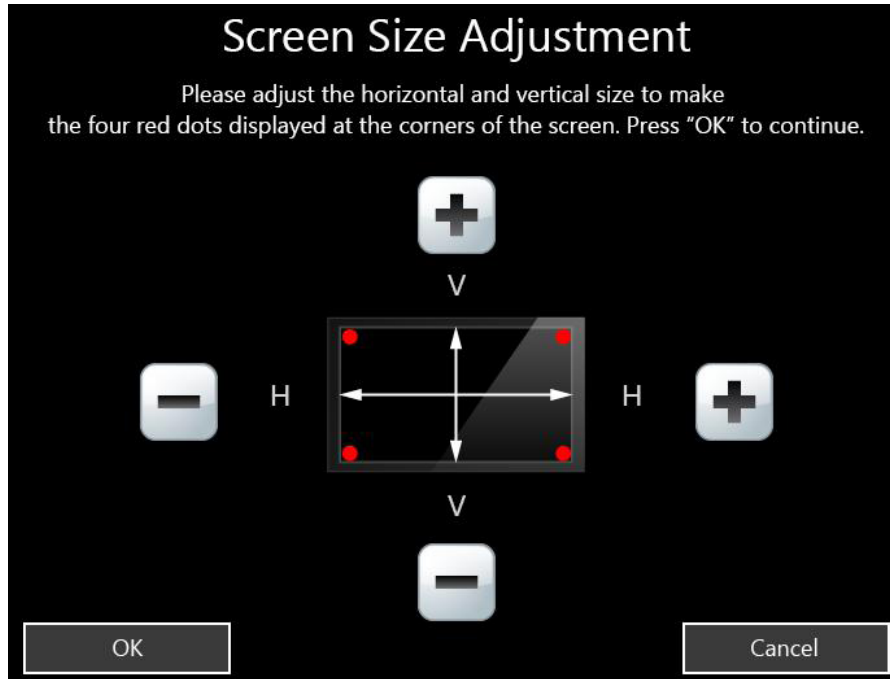




Figure 6. Screen Resize Tool

To adjust the screen size:

1. Click or press the  and  buttons to adjust the screen horizontally and vertically. The four red dots on the corners indicate the size of the screen.
2. Press the **OK** button to return to the standby screen.

NOTE: The standby screen (see [figure 4](#) on page 6) is not resized. Only the **Whiteboard** screen (see [figure 7](#) on the next page) and all other presentation screens are resized.

Using the Whiteboard Feature

To use the Whiteboard feature, click the Whiteboard icon on the standby screen (see [figure 4, 4](#), on page 6).

The Whiteboard screen opens:

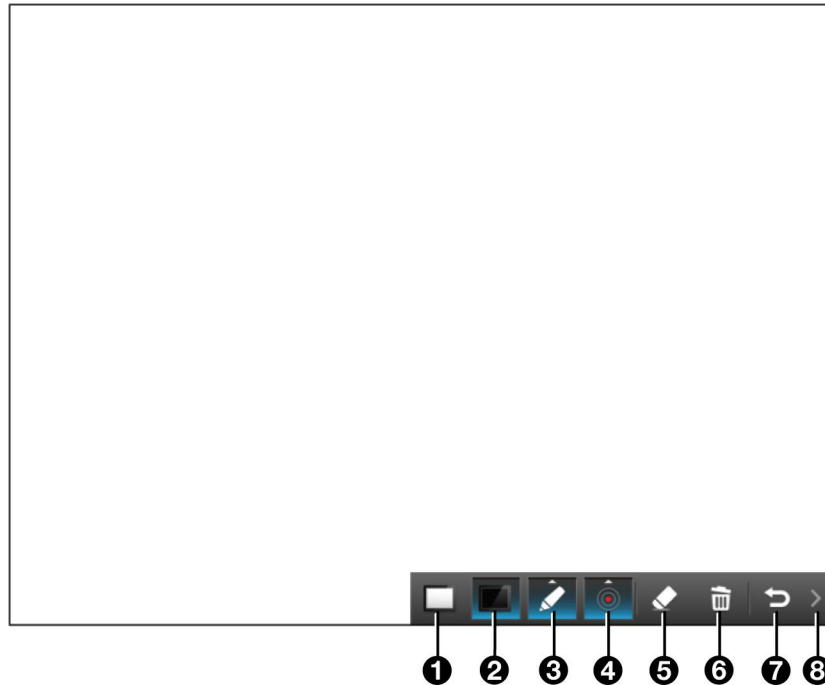


Figure 7. Whiteboard Screen

- 1 Whiteboard** — Draw on a white background.
- 2 Blackboard**— Draw on a black background.
- 3 Pen mode** — Click this button to switch between the two pen modes:
 - Default mode: allows the user to draw without erasing previous strokes.
 - One-stroke mode: allows the user to draw only one stroke at a time (the previous annotation is cleared when a new stroke is made).
- 4 Pen color and size** — Select pen color (red, green, or blue), and pen size.
- 5 Eraser** — Erase selected parts within drawing.
- 6 Delete** — Delete entire drawing on the screen.
- 7 Return** — Return to the standby screen.
- 8 Minimize/Open** — Minimize or open the menu.

Using the USB Player

This feature allows the presenter to display photos, videos, audio files, and documents from a USB drive connected to the rear panel USB port (see **figure 2**, **E** on page 3). To use the USB Player:

1. Ensure that a USB drive is connected to the USB port on the rear panel (see **figure 2**, **E**).

NOTE: The USB drive connected to this port must be FAT32 formatted and single partition. Also, external hard drives must use external power (hard drives cannot be powered from this USB port).

2. Click the USB Player icon on the standby screen (see **figure 4**, **5** on page 6). The USB Player screen opens:

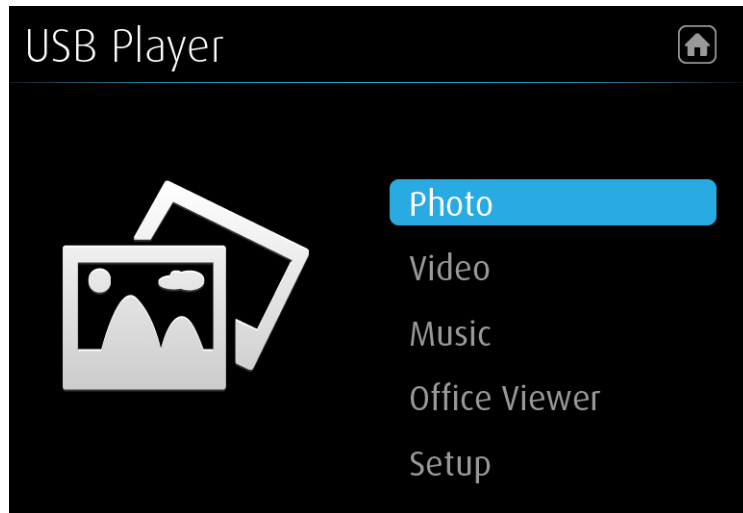


Figure 8. USB Player Screen

Home icon  – Return to standby screen.

Photo – Enter photo viewer.

Video – Enter video player.

Music – Enter music player.

Office Viewer – Enter Office Viewer (to view Microsoft Office documents).

Setup – Enter Setup page.

NOTE:

The following file formats are supported:

- **Image:** JPG, BMP, PNG, GIF
- **Video:** MP4, MPG, MPEG, MPEG-2 TS, AVI, MOV, MKV, WMV
- **Audio:** MP3, WAV, WMA, AAC
- **Document:** Microsoft Word (.doc, .docx), PowerPoint® (.ppt, .pptx), Excel® (.xls, .xlsx); PDF

The following codecs are supported:

- **Image:** JPG, BMP, PNG, GIF
- **Video:** MPEG-2, MPEG-4 (Microsoft MPEG-4 v1-3 is not supported), Motion JPEG, WMV9 (only WMV3/WVC1 is supported)
- **Audio:** LPCM, AAC, MP3, WMA

Operation Using a Computer

Users can present from a Windows or Mac computer using the ShareLink Software. This section covers the following:

- [Connecting a Computer to the ShareLink 200 N](#)
- [Setting Up the ShareLink Software](#)
- [Using the ShareLink Software](#)

NOTES:

macOS computer minimum system requirements:

- Dual Core, 1.4 GHz processor or better
- macOS 10.9 - 10.15
- Graphics card with 64 MB VRAM or better

Windows computer minimum requirements:

- Dual Core, 1.8 GHz processor or better
- Microsoft Windows 7/8/10
- Graphics card with 64 MB VRAM or better

Connecting a Computer to the ShareLink 200 N

There are two ways to connect a computer to the ShareLink 200 N: wirelessly, through an external WAP, or wired through a network device.

Connecting through an External WAP

1. Ensure that the external WAP and the ShareLink 200 N are wired to the same network.
2. Ensure that the ShareLink 200 N is powered on and that wireless network capability is enabled on your computer.
3. Open the wireless networks on your PC and connect to the external WAP.

Connecting through a Network Hub, Switch, or Router

1. Ensure that your computer is connected to the network through a hub, switch, or router.
2. Connect the RJ-45 connector of the ShareLink 200 N to the network device using an RJ-45 cable.

Setting Up the ShareLink Software

There are two versions of the ShareLink Software:

- **Lite version** (no installation required) — Users can run the Lite software from the embedded web pages without having to install the software on the PC. Since installation is not required, users do not need admin rights to run the Lite software (see "Running the ShareLink Lite Software" below).
- **Pro version** (installation required) — The executable software file can be downloaded from the embedded web pages or from the Extron website (see [Downloading and Installing the ShareLink Pro Software](#) on the next page).

Running the ShareLink Lite Software

1. Ensure that the computer is connected to the ShareLink 200 N device, either through an external WAP or through a physical network connection. The computer and the ShareLink 200 N must be on the same network.
2. Launch your web browser and enter the ShareLink IP address (see [figure 4](#), 6 on page 6) in the browser.

The ShareLink 200 N landing page opens as shown below:

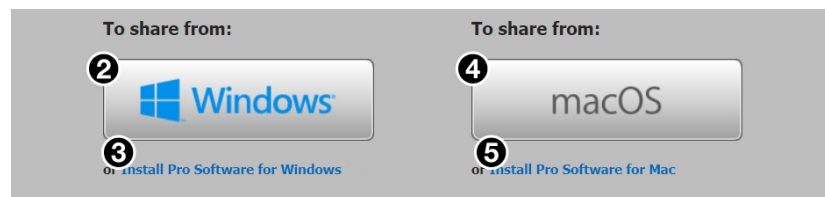
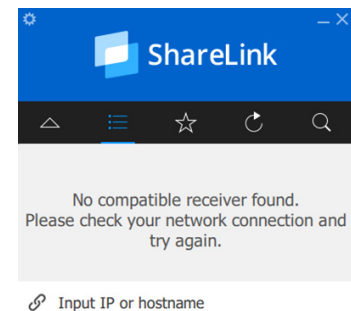


Figure 9. ShareLink 200 N Landing Page

3. Click **Windows** (2) or **Mac** (4), depending on your operating system, to launch the software.
4. Follow the instructions on the web browser to run the the executable ShareLink software file.

NOTE: When the Lite software opens, it automatically attempts to connect to your ShareLink device.

- If the software is unable to connect to the ShareLink, a list of available ShareLink devices appears.
- If the device is not on the list, enter the IP address or hostname into the field at the bottom of the software window (see image at right).



5. When prompted, enter the login code (see [figure 4](#), 9 on page 6).

Downloading and Installing the ShareLink Pro Software

The ShareLink software can be downloaded from the embedded web pages or from the Extron website. Follow the instructions below for your preferred download method.

Downloading the software from the embedded web pages

1. Ensure that your computer is connected to the ShareLink 200 N, either through Wi-Fi or through a physical network connection. The computer and the ShareLink must be on the same network.
2. Launch your internet browser and enter the ShareLink IP address (see **figure 4**, **6** on page 6) into the browser.

The ShareLink 200 N landing page appears on the browser (see **figure 9** on the previous page).

3. Click **Install Pro software for Windows** (see **figure 9**, **2**) or **Install Pro software for Mac** (see **figure 9**, **4**), depending on your operating system, to launch the software installer on your computer.
4. Follow the instructions on the web browser to run the the executable software installer file.
5. Follow the steps on the installation wizard to install the software.

Downloading the software from the Extron website

1. On the Extron website, go to the **Download** tab and click **Software** (see figure 10, **1**).

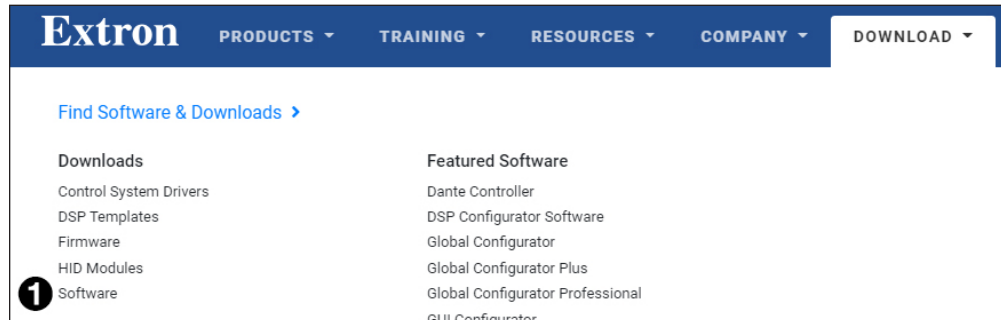


Figure 10. Download Page on the Extron Website

2. Scroll down to the alphabetical menu and click the letter **S** (see figure 11, **1**).

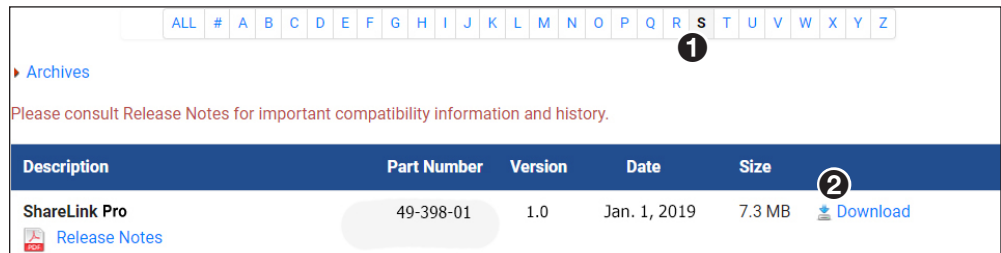



Figure 11. Download Software

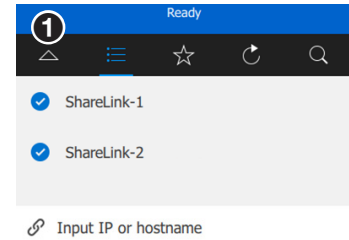
3. Scroll down to the software names and look for ShareLink. Click **Download** in the ShareLink section for your operating system (**1**).
4. Submit any required information to start the download. Note where the file is saved.
5. Open the saved executable (.exe) file.
6. Follow the instructions that appear on the screen to install the program.

Using the ShareLink Software

After successful connection to the ShareLink, the device name is shown on the software window with a blue checkmark as shown at right.

NOTE: The computer can be connected to multiple ShareLink devices. The presentation is broadcast to all connected units simultaneously.

After a few seconds, the software window is minimized, and the presentation controls are revealed as shown below. Alternatively, you may click the  arrow (1) to reveal the presentation controls.





Presenting the Computer Screen

Use the following software options to present content:





Figure 12. ShareLink Software Controls

1 Minimize/maximize — Minimize () or maximize () the current software window.

NOTE: After clicking the maximize button (), click **1a** () to show the info panel, which lists the connected receivers.

2 Grid view — Click this button (for presentations that feature multiple content sources) to change how the computer screen is presented on the display: top left, top right, bottom left, bottom right, or full screen.

3 Play — Click to start presenting your computer screen. A **Pause** () and **Stop** () button become available to pause the presentation on the current screen or to stop the presentation.

4 Volume — Click this button to mute or unmute audio when presenting.

5 Stream Video (Windows only) — Click this button to upload and present an MP4 video file. Browse to the desired video file and double-click it to upload it to the software.

NOTE: The stream video feature is only supported on devices that are on the same subnet.

Use the video streaming panel (shown below) to stop or pause the presentation, control the volume, and skip to a specific time:

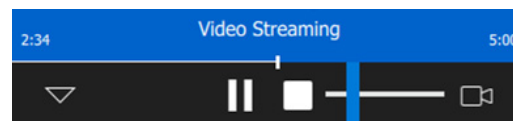


Figure 13. Video Streaming

6 Close — Click to close the software.

Operation Using a Mobile Device

This section covers the following:

- **Downloading the Extron ShareLink App**
- **Connecting to the ShareLink 200 N**
- **Using the Extron ShareLink App**
- **Using iOS Mirroring**

Downloading the Extron ShareLink App

The Extron ShareLink mobile app is supported by Android and iOS mobile devices. Follow these steps to download the app:

1. Open the Google Play™ app store on your Android device, or the App StoreSM on your iOS device.
2. Search for Extron ShareLink.
3. Install the app on your mobile device.

Connecting to the ShareLink 200 N

Follow these steps to connect your mobile device to the ShareLink 200 N using the app:

1. Ensure that the ShareLink 200 N is powered and connected to the network.
2. Open the Wi-Fi networks list on your mobile device and connect to an external WAP that is on the same network as the ShareLink 200 N. Ensure that the external WAP and the ShareLink are wired to the same network.
3. Open the ShareLink app.

Using the ShareLink App

The ShareLink app home screen displays basic functions to present images, documents, the device camera, and the device screen. Select the desired function to start a presentation.

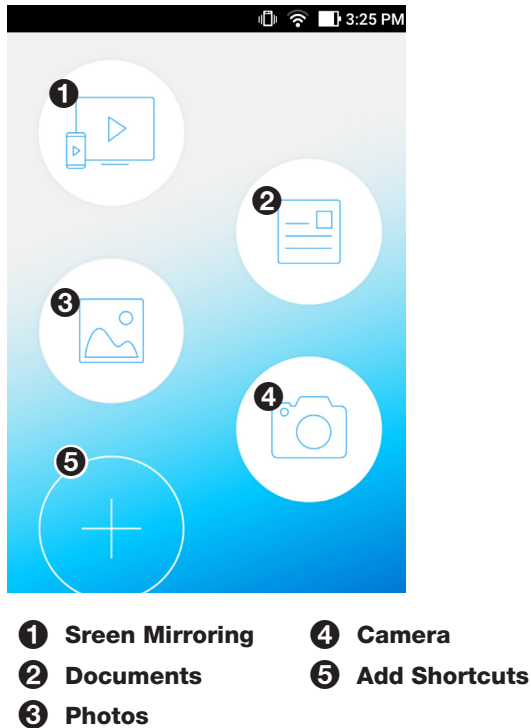
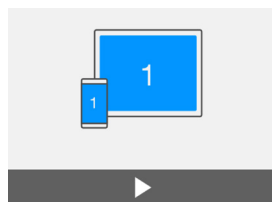


Figure 14. ShareLink App Home Screen

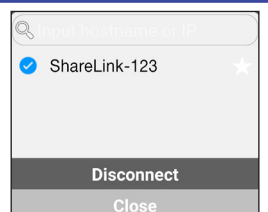
- 1 Screen Mirroring** (Android only) – Select this option to share the device screen. Only video is shared (no audio).



- To start presenting the device screen, press the **Play** (▶) button.
- To stop presenting, return to this screen and press the **Stop** (◻) button.

NOTE (For all functions): After pressing Play (▶):

- If prompted to select a ShareLink device (as shown on the right), select your device hostname and enter the code shown on the Standby Screen (see figure 4, **7** and **9** on page 6).
- If the receiver is not shown, enter the hostname or IP address in the search bar.



- 2 Documents** – Select this option to present documents stored on the device. Browse to the desired document on the device and press the **Play** (▶) button (as shown below) to present it.

Introduction

The Extron **ShareLink 200 Series** Wireless Collaboration Gateway enables anyone to present content from a laptop, smartphone, or tablet on a display, transforming any meeting room into a collaboration space. ShareLink™ technology supports simultaneous display of slides, documents, graphs and photos from up to four devices without needing a cable. It is compatible with Windows® and OS™ computers as well as Apple® and Android™ smartphones and tablets. It also includes a moderator mode to ensure only approved content is displayed. In spaces with tight budgets, slides can be viewed on personal devices via a Web browser. The professional capabilities of the ShareLink 200 Series provides easy integration of mobile devices into meeting and training rooms, collaboration spaces, and presentation environments.

Share Content Wirelessly
Designed for Bring Your Own Device (BYOD) environments, the gateway is available in two models. The ShareLink 200 W includes an integrated, dual band wireless access point - WAP. Users connect directly to the unit via WPA, or a Gigaset Ethernet port provides a wired connection. The ShareLink 200 W is ideal for creating a standalone wireless collaboration system or adding wireless capabilities to a wired network.

The ShareLink 200 N does not include a WAP, and works in concert with a facility's existing wireless network. Users connect to the room's WAP via Wi-Fi to access the unit through its Gigaset Ethernet port, which provides for secure user authentication via the wireless.

An image, document, or slide show presentation from a single personal device is shown full screen on a wall or flat screen. The MirrorCast for Extron ShareLink™ app enables wireless connection of a mobile device via the Wi-Fi network. This application is free and available for download from the App Store or Google Play™ store.

The ShareLink 200 Series also supports mirroring of OS devices from the Extron Control Center.

Windows or OS X computers access the ShareLink 200 Series unit via a wired or wireless network connection. The user enters their IP address of the unit into a Web browser to run or install the ShareLink software. The user can also run the client application directly from a USB flash drive without installing software onto the computer. The application enables sharing images, documents, and presentations, as well as full-motion video at 30 fps.

Host for Collaboration
The default collaboration mode allows any attendee to easily send content to the display and control the presentation. This can enhance interaction during brainstorming sessions, team meetings, group studies, and other collaborative environments.



Moderated Presentation
The ShareLink 200 Series offers a moderator mode for centralized control over device access and presentation. The moderator decides which users can access the display and how the content is presented, ensuring only approved content is displayed. This mode is ideal for educational environments, allowing the instructor to have complete control of the presentation on the main classroom display.

Share Content across Multiple Displays
The ShareLink 200 Series offers the ability to enable a Windows or OS X computer to communicate with multiple ShareLink 200 Series units on a network. The technology allows a computer to send the same content to as many as four displays. This is useful for larger spaces with multiple displays or adjacent rooms used for overlap.

Enables a Secure Connection
The ShareLink 200 Series features security authentication controls of network generated or user defined security codes to ensure only approved devices can share content. The 802.11g/n wireless

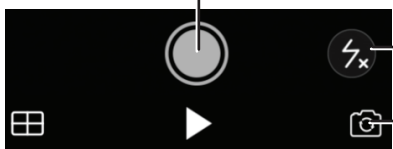



NOTES:

-  **Annotations icon** (for **Documents 2** and **Photos 3**): Press the annotations icon on the bottom right corner to make annotations on the document (see Making Annotations below for details).
-  **Grid view icon** (for **Documents 2**, **Photos 3**, and **Camera 4**): Press the grid view icon (for presentations that feature multiple content sources) to change how the content is presented on the display: full screen, top left, top right, bottom left, or bottom right.

- 3 Photos** – Select this option to present photos stored on the device. Browse to the desired photo and press the Play (▶) button to present it.
- 4 Camera** – Select this option to present the device camera. Press the **Play** (▶) button to present the camera live on the display.

The following options appear at the bottom of the screen:



Take picture - Press this button to take a picture, which can be shared from the app.

Flash - Press this button to change the flash setting.

Switch cameras - Press this button to switch between the front and rear cameras.

- 5 Add Shortcuts** – Select this option to add shortcuts on the home screen for other functions. Available functions include: Browser, Dropbox, GoogleDrive, OneDrive, and Settings.

Making Annotations

Annotations can be made on documents and photos before or during a presentation. To make annotations, press the **Annotations** icon (📎) and draw anywhere on the document or photo.

The annotations menu (shown below) appears at the bottom of the screen:

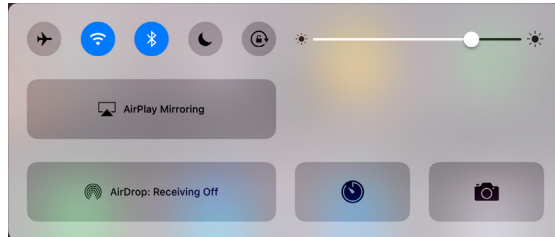


- ❶ **Close** — Close the annotations menu.
- ❷ **Save** — Save the current image with annotations.
- ❸ **Delete** — Delete annotations.
- ❹ **Eraser** — Erase annotations manually.
- ❺ **Size** — Select pen or highlighter size.
- ❻ **Color** — Select pen or highlighter color.
- ❼ **Annotation tool** — Select a different annotation tool. Options include: **highlighter** or **one-stroke highlighter** (which deletes the previous stroke whenever a new stroke is made)

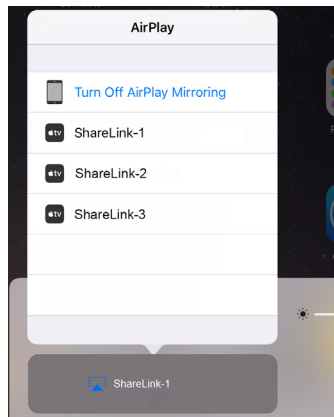
Using iOS Mirroring for Mobile Devices

This feature allows iOS mobile device screens to be mirrored onto the display.

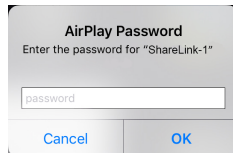
1. Ensure that the ShareLink 200 N is powered and connected to the network.
2. Connect your device to the ShareLink 200 N (see "Connecting to the ShareLink 200 N" on page 15).
3. Tap the **AirPlay Mirroring** icon on the iOS device.



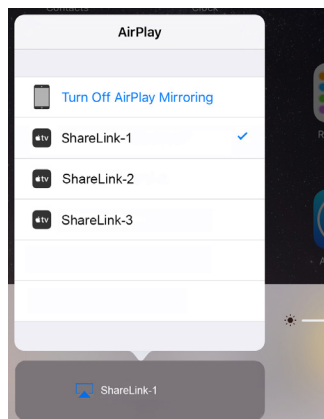
The discovered receivers list appears as shown below.



4. Select your ShareLink 200 N receiver from the discovered receivers list.
5. If prompted for a password, enter the ShareLink login code, and press **OK**.



The device screen is immediately mirrored onto the display. To stop presenting the device screen, select **Turn Off AirPlay Mirroring**.



NOTE: Options may look different depending on the iOS version.

Using the Embedded Web Pages

The ShareLink 200 N embedded Web pages contain the following features:

- **WebShare:** allows users to view a presentation remotely on their mobile devices or computers.
- **Moderator mode:** allows a designated moderator to play or stop user presentations, and to choose where to display the presentations on the main screen.
- **Admin mode:** allows a designated administrator to configure ShareLink 200 N settings.

This section covers the following:

- **Opening the Embedded Web Pages**
- **Watching a Presentation (WebShare)**
- **Moderating a Presentation**
- **Configuring ShareLink 200 N Settings**

Opening the Embedded Web Pages

To access the embedded web pages, enter the ShareLink IP address (shown on the standby screen) into the web browser.

The landing page opens:



Figure 15. ShareLink 200 N Landing Page

- ❶ **Configure** — Click to access the Admin pages and configure presentation settings (see **Configuring ShareLink 200 N Settings** on page 24).
- ❷ **Windows** — Click to run the Lite version of the ShareLink Software for Windows.
- ❸ **Install Pro Software for Windows**
- ❹ **Mac** — Click to run the Lite version of the ShareLink Software for Mac.
- ❺ **Install Pro Software for Mac**
- ❻ **Watch Presentation** — Click to access the WebShare feature. See **Watching a Presentation** on the next page.
- ❼ **Moderate Presentation** — See **Moderating a Presentation** on page 22.

Watching a Presentation (WebShare)

WebShare allows audience members to view a presentation on their computers or mobile devices using a web browser. The presenter may broadcast the presentation so that the image shown on the display can be viewed remotely.

NOTES:

- WebShare must be enabled on the client software or mobile app in order for the presentation to be viewed remotely by other users.
- Each user connected through WebShare adds to the wireless bandwidth of the ShareLink 200 N. It is recommended that the device be connected to an Ethernet network or bridged to a router for best performance.

Audience members must follow these steps to watch a presentation:

1. Open a web browser on the mobile device or computer and connect to the IP address of the ShareLink 200 N.
2. On the landing page, click **Watch Presentation**. The presentation page (see figure 36) opens in the web browser.
3. Click the 1:1 button (4) to watch the presentation.

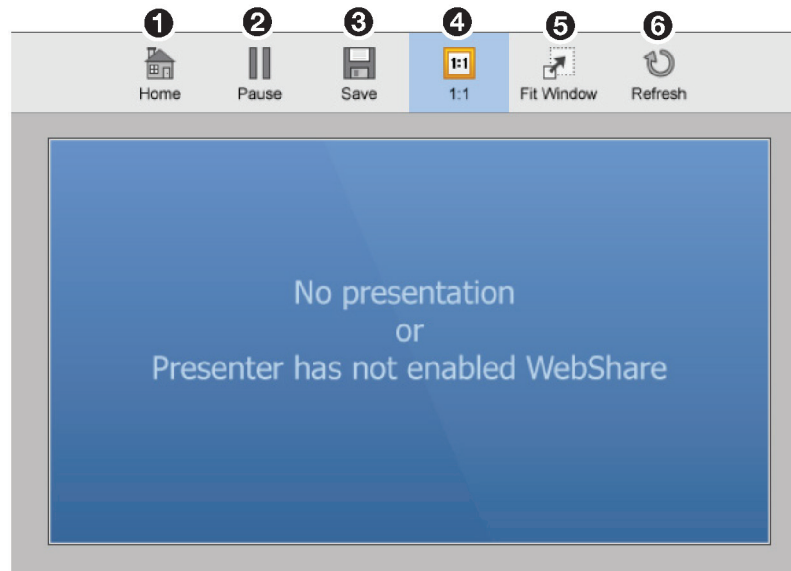


Figure 16. Presentation Page

- 1 **Home** — Click to go to the ShareLink 200 N landing page.
- 2 **Pause** — Click to pause the presentation.
- 3 **Save** — Click to save the slide being presented.
- 4 **1:1** — Click to watch the presentation.
- 5 **Fit Window** — Click to enlarge the presentation screen to the size of the browser window.
- 6 **Refresh** — Click to refresh the presentation, if necessary.

Moderating a Presentation

Moderator mode allows a single user to control the presentation of all connected users. There are two ways to moderate user presentations:

- Through the **Moderator Control Web Page** (see instructions below)
- Through an Extron ShareLink driver (see **Moderating through an Extron ShareLink Driver** on the next page)

Moderating through the Moderator Control Web Page

1. Click **Moderate Presentation** on the landing page. The login page opens:

Connected User	IP Address
----------------	------------

Figure 17. Login Page

2. Enter the password and click **Login** (see figure 17, **1**).

NOTE: The factory configured password for all accounts has been set to the device serial number (passwords are case sensitive). Performing a reset sets this password to “moderate” (see **Reset to Default** on page 34 for reset instructions).

After login, the following page opens:

ksmith	Share to Full Screen	192.168.1.1
--------	----------------------	-------------

Figure 18. Moderator Page

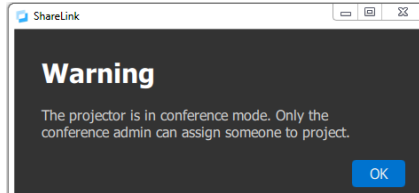
- 1 Enable Web Page Moderator Control**
- 2 Connected User column** (see the next page)
- 3 Share Control column** (see the next page)
- 4 IP Address column** (see the next page)

- 1 Enable Web Page Moderator Control** — This option is unchecked by default, meaning that all connected users are free to start presentations. The moderator may also control presentations when this box is unchecked.

Check this box to enable moderator control, which allows **only** the moderator to control presentations from this page. When this option is enabled:

- Only the moderator can start user presentations.

- The **Share my Screen** tab in the ShareLink software is disabled (see [Presenting the Computer Screen](#) on page 14). If a user tries to share a presentation, the following message appears:



- The moderator can start or stop user presentations. However, individual users may choose to stop their presentations from their devices.
- ➊ **Connected User** — This column shows the user names of all users connected to the ShareLink 200 N.
 - ➋ **Share Control** — This column allows the moderator to do the following:
 - **Play or stop a user presentation:** Click **Play** (▶) in the **Share Control** section next to the Connected User that you wish to present. The row becomes green and the play button becomes a stop button. Click the **Stop** button to stop sharing content.
 - **Choose where on the screen to display the presentation** (full screen, top left, top right, bottom left, or bottom right): Click the drop-down menu and select where to display the presentation (**Share to Full Screen** is selected by default).
 - ➌ **IP Address** — This column shows the IP address of each connected user device.

Moderating through an Extron ShareLink Driver

You can moderate presentations remotely from an Extron touchpanel control system using an Extron ShareLink driver (see www.extron.com for optional touchpanel control systems and to download the Extron ShareLink driver).

The driver allows the moderator to have full control of user presentations **and** to monitor activity on the moderator control web page.

NOTE: Web page moderator control can only be enabled or disabled from the web page, by checking or unchecking the **Enable Web Page Moderator Control** box (see [figure 18](#), ➊ on the previous page).

Configuring ShareLink 200 N Settings

To access the ShareLink 200 N admin (configuration) pages:

1. Click the **Configure** button on the top right hand corner of the landing page (see [figure 15](#), ❶, page 20). The Login page opens.
2. Enter the password and click **Login**. The default password is “configure”.

NOTE: The factory configured password for all accounts has been set to the device serial number (passwords are case sensitive). Performing a reset sets this password to “configure” (see [Reset to Default](#) on page 34 for reset instructions).

After login, the admin page opens:

System Status	Model Name	ShareLink 200N
Device Setup	Versions	
Network Setup	Firmware Version	2.0.2.1
SNMP Setup	Device Information	
OSD Setup	Host Name	ShareLink-123
WebShare Setup	Resolution	1600 x 1200 (UXGA)
Web Page Moderator Setup	Region	UNITED STATES
Admin Password	Network Status	
Firmware Update	IP Address	192.168.1.1
Reset to Default	Subnet Mask	255.255.240.0
Reboot System	Default Gateway	10.113.112.100
	Wire MAC Address	00:02:2A:DD:44:B0
	Connection Status	
	Sharing Status	Not Sharing
	Total Users	0
	Code	0000
	Date and Time	
	Date	--
	Time	--
	Time Zone	--

Figure 19. ShareLink 200 N Admin Pages

- **System Status** — This is the default page. It displays basic information about the ShareLink 200 N model, network status, connection status, and date and time.
- **Device Setup** — Use this page to adjust the ShareLink 200 N output resolution, login code, date and time, and to reboot settings (see [Device Setup](#) on the page 26).
- **Network Setup** — Use this page to adjust network settings for the ShareLink 200 N, such as hostname, domain name, IP settings, and DHCP settings (see [Network Setup](#) on page 27).
- **SNMP Setup** — Use this page to enable or disable SNMP service, and to configure settings for managing the ShareLink 200 N via SNMP (see [SNMP Setup](#) on page 28).
- **OSD Setup** — Use this page to customize standby screen image or reset it to default, and to choose which device information to display on the standby screen (see [OSD Setup](#) on page 29).
- **WebShare Setup** — Use this page to set the auto refresh interval and the Access Password Code for WebShare (see [WebShare Setup](#) on page 31).

- **Web Page Moderator Setup** — Use this page to change the Moderator password and to enable or disable Moderator Mode (see [Web Page Moderator Setup](#) on page 32).
- **Admin Password** — Use this page to change the Admin password (see [Admin Password](#) on page 32).
- **Firmware Update** — Use this page to update the ShareLink 200 N firmware. (see [Firmware Update](#) on page 33).
- **Reset to Default** — Use this page to reset the ShareLink 200 N to its factory default settings (see [Reset to Default](#) on page 34).
- **Reboot System** — Use this page to reboot the ShareLink 200 N (see [Reboot System](#) on page 34).

Device Setup

① Device Setup	Resolution	1600 x 1200 (UXGA) ▾
	Code	<input type="radio"/> Disable <input checked="" type="radio"/> Random <input type="radio"/> Use the following code <input type="text"/> (0-9)
	<input type="radio"/> SNTP/NTP Server Synchronization <input checked="" type="radio"/> Disable	
② Date and Time Settings	Server	<input type="text"/>
	Last Sync Time	--
	Time Zone	(GMT) -8:00 (Pacific Time) ▾
	Daylight Saving Time	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
	Date	--
③ Terminal Refresh (Reboot)	Time	--
	<input checked="" type="radio"/> Auto <input type="radio"/> Time Set	
	Time	00 ▾ : 00 ▾ : 00 ▾

Figure 20. Device Setup Panel

① Device Setup panel

- **Resolution** — Change the output resolution (resolution is set to 720p by default). Click the drop-down menu to show other resolutions.
- **Code** — Customize the login code that is displayed on the standby screen at startup (see [figure 4](#), ⑧ on page 6). Three options are available for the login code:
 - **Disable** — No login code is required to connect to the ShareLink 200 N.
 - **Random** (default) — A new random code is generated when the last user disconnects from the ShareLink 200 N. For example, User 1 logs in with the current code, then user 2 logs in with the same code. When users 1 and 2 disconnect from the ShareLink, a new code is generated.
 - **Use the following code** — Enter a custom 4-digit login code.

② Date and Time Settings panel

- Choose **SNTP/NTP Server Synchronization** to specify the time server, or choose **Disable** to disable this feature.

NOTE: SNTP/NTP (Simple Network Time Protocol/Network Tie Protocol) is used for synchronizing the clocks of computer systems over networks.

- **Server** (if SNTP/NTP Server Synchronization is enabled) — Enter the NTP server address into this field.

NOTES:

- If the NTP server address is in the form of a URL, a DNS server address is **required** to sync to the NTP server (for example, enter “pool.ntp.org”).
- If the NTP server address is in the form of an IP address, a DNS server address is **not required** to sync to the NTP server.

- **Time Zone** (if SNTP/NTP Server Synchronization is enabled) — Select the appropriate time zone.
- **Daylight Saving Time** — Enable or disable the Daylight Saving Time option.

③ Terminal Refresh (Reboot) panel

This feature refreshes the terminal and reboots the system.

- **Auto** (default) — Device automatically refreshes when a user is not connected and no user is sharing.
- **Time Set** — Schedule a specific time to refresh the terminal (specify that time in the **Time** field using the drop-down lists).

Network Setup

1 Host Name and Domain Name	Host Name	<input type="text" value="ShareLink-123"/>			
	Domain Name	<input type="text"/>			
2 IP Setup	<input checked="" type="radio"/> Obtain an IP address automatically <input type="radio"/> Use the following IP address				
	IP Address	<input type="text" value="192"/>	<input type="text" value="168"/>	<input type="text" value="254"/>	<input type="text" value="254"/>
	Subnet Mask	<input type="text" value="255"/>	<input type="text" value="255"/>	<input type="text" value="255"/>	<input type="text" value="0"/>
	Default Gateway	<input type="text" value="192"/>	<input type="text" value="168"/>	<input type="text" value="254"/>	<input type="text" value="254"/>
	DNS Server	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
3 DHCP Server Setup	<input checked="" type="radio"/> Auto <input type="radio"/> Disable				
	Start IP	<input type="text" value="192"/>	<input type="text" value="168"/>	<input type="text" value="254"/>	<input type="text" value="11"/>
	End IP	<input type="text" value="192"/>	<input type="text" value="168"/>	<input type="text" value="254"/>	<input type="text" value="100"/>
	Subnet Mask	<input type="text" value="255"/>	<input type="text" value="255"/>	<input type="text" value="255"/>	<input type="text" value="0"/>
	Default Gateway	<input type="text" value="192"/>	<input type="text" value="168"/>	<input type="text" value="254"/>	<input type="text" value="254"/>
	DNS Server	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>					

Figure 21. Network Setup

1 Host Name and Domain Name panel

- **Host Name** — Enter a hostname for the ShareLink or leave the default name as is.
- **Domain Name** — Enter the domain name for the DNS server.

2 IP Setup panel

- **Obtain an IP address automatically** (default setting) — Select this option to obtain an IP address automatically from a DHCP server. The default settings are:

IP Address: 192.168.254.254 **Subnet Mask:** 255.255.255.0
Default Gateway: 192.168.254.254 **DNS Server:** 0.0.0.0

- **Use the following IP address** — Select this option to enter a static IP address.

IP Address — Enter an IP address.
Subnet Mask — Enter the corresponding subnet mask.
Default Gateway — Enter the corresponding gateway address.
DNS Server — Enter the corresponding DNS server address.

3 DHCP Server Setup panel

- **Auto** (default setting) — If a DHCP server is available on the network, the ShareLink uses an IP address assigned by the server. If a DHCP server is not available on the network, the ShareLink uses its internal DHCP server to assign IP addresses to network devices. The default settings are as follows:

Start IP: 192.168.254.11 **End IP:** 192.168.254.100
Subnet Mask: 255.255.255.0 **Default Gateway:** 192.168.254.254
DNS Server: 0.0.0.0

NOTE: In Auto mode, you may use the default settings above or customize the settings, if needed.

- **Disable** — Select this option to disable the internal DHCP server.

SNMP Setup

Simple Network Management Protocol (SNMP) facilitates the exchange of basic network management information to provide monitoring, control, and to collect error information.

<input checked="" type="radio"/> Enable <input type="radio"/> Disable	
2 SNMP V2	Community <input checked="" type="checkbox"/> Hide characters
	Write Community <input checked="" type="checkbox"/> Hide characters
3 SNMP V3	User Name admin
	Auth Password (MD5) <input checked="" type="checkbox"/> Hide characters
	Priv Password (DES) <input checked="" type="checkbox"/> Hide characters
4 Port	161 161 (Default), 1024 - 65535 (Remapping).
5 Trap	IP 0 . 0 . 0 . 0
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>	

Figure 22. SNMP Setup

1 Enable or Disable — SNMP is enabled by default. To disable SNMP, choose **Disable**.

2 SNMP V2 panel — The SNMP **Community** and **Write Community** values act as passwords, granting public (read-only) and private (read-write) access to the network management system.

- **Community** — Default value is set to “public”
- **Write Community** — Default value is set to “private”

3 SNMP V3 panel

- **User Name** — Configure the user name of the person in charge of managing the ShareLink through SNMP.
- **Auth Password (MD5)** — Configure the Auth password.

NOTE: The default password is “Authadmin.” To change the password, enter a new password and click “Apply.”

- **Priv Password (DES)** — Configure the Priv password.

NOTE: The default password is “Privadmin.” To change the password, enter a new password and click “Apply.”

4 Port — See [Firewall Traversal](#) on page 38 for a list of ports and their functions.

5 Trap panel — Configure the trap receiver IP.

OSD Setup

System Status		Image Name	Default
Device Setup		<input type="button" value="Restore to default"/>	
Network Setup		File Name	<input type="text"/> <input type="button" value="Browse.."/>
SNMP Setup		<input type="button" value="Image File Upload"/>	
OSD Setup	1 Standby Image	Only supports PNG and JPEG file formats with maximum size of 5MB. (Recommended image size of 1920x845)	
WebShare Setup		Disable Output Sync After	<input type="text" value="Never Time Out"/>
Web Page Moderator Setup	2 Screen Saver	Enable Output Sync on	<input checked="" type="radio"/> Connected user <input type="radio"/> Device Discovery
Admin Password		Show Secondary Tools on Standby	<input checked="" type="radio"/> On <input type="radio"/> Off
Firmware Update		Show Device Info on Standby	<input checked="" type="radio"/> On <input type="radio"/> Off
Reset to Default		Show Device info at Login	<input checked="" type="radio"/> On <input type="radio"/> Off
<input type="button" value="Reboot System"/>	3 Display Device Info	Show Login Code on Standby and Login	<input checked="" type="radio"/> On <input type="radio"/> Off

Figure 23. OSD Setup

1 Standby Image — Use this section to change the standby screen background image (see [figure 4](#), page 6).

- **Restore to default:** Click to restore default standby screen image.
- **Image File Upload:** Click **Browse** to select the image file for the standby screen, then click **Image File Upload**.

NOTE: The image file can be JPEG or PNG format with a maximum size of 5 MB and recommended resolution of 1920x845.

2 Screen Saver — The screen saver feature is useful for displays with power saving capability. This feature disables the video (HDMI and VGA) outputs of the ShareLink after a specified amount of time, allowing the display to go into power save mode (if applicable).

- **Disable Output Sync After:** Click the drop-down menu and select the timeout period. The video outputs are disabled after the specified timeout period, if there is no activity on the ShareLink.
- **Enable Output Sync on:** Select one of these two options for re-enabling the video outputs:
 - **Connected user:** With this option, users must open the ShareLink software and enter the IP address and login code in order to enable the video outputs.

NOTE: Since the output is timed out, the login code will not be visible on the display. If using the **Connected user** option, disable the login code or ensure that users know the code so they can connect to the ShareLink.

- **Device Discovery:** With this option, the video outputs are automatically enabled when the ShareLink software is opened and the ShareLink device is discovered.

NOTE: If there are multiple ShareLink devices on the network, all of their video outputs are automatically enabled upon device discovery.

- 3 Display Device Info** — Use this section to choose which items to show on the standby or **Login** screen, including:
- **Show Secondary Tools on Standby** — When this option is set to **Off**, the four icons on the standby screen (USB Player, Whiteboard, Resize, and Calibration) are hidden.
 - **Show Device Info on Standby** — When this option is set to **On**, the receiver IP address and SSID are shown on the bottom portion of the standby screen. When this option is set to off, these items are hidden.
 - **Show Device Info at Login** — When this option is set to **On**, the IP address, hostname, and login code are overlaid on top of the shared content for 30 seconds. Every time a new user connects to the ShareLink, this Device Info reappears for 30 seconds.
Select **Off** to disable this feature as well as the “Show Receiver Info” option on the client software.
 - **Show Code on Standby and Login** — When this option is set to **Off**, the login code is hidden from the standby screen. The “Show Receiver Info” option remains enabled, allowing the IP address and hostname to be displayed.

WebShare Setup

System Status
Device Setup
Network Setup
SNMP Setup
OSD Setup
WebShare Setup
Web Page Moderator Setup
Admin Password
Firmware Update
Reset to Default
Reboot System

1 Auto Refresh Interval (second)

Manual Refresh

10 *recommended maximum concurrent users. (10)

20 *recommended maximum concurrent users. (15)

30 *recommended maximum concurrent users. (20)

45 *recommended maximum concurrent users. (25)

60 *recommended maximum concurrent users. (30)

90 *recommended maximum concurrent users. (35)

2 Access Password Control

Disable

Use the same password as "Code"

Use the following Code: (0-9)

Note
For optimal sharing performance, when there are more than 10 concurrent users, it is recommended to try one of the following:

- connect ShareLink to the company network through ethernet
- bridge ShareLink to a router

Apply Cancel

Figure 24. WebShare Setup

1 Auto Refresh Interval (second) panel — Use this panel to configure the presentation refresh interval time (the amount of time that elapses before the presentation refreshes).

- **Manual Refresh**
- **10 - 90** (seconds) — Select the best option for the number of users.

2 Access Password Control panel — Use this panel to disable or configure the WebShare access password (this is the password required when connecting to the ShareLink 200 N through WebShare):

- **Disable** — Select to disable the password. This allows users to connect to the ShareLink 200 N through WebShare without a password.
- **Use the same password as "Code"** — Select this option to make the WebShare access password the same as the Code on the standby screen.
- **Use the following Code** — Enter a custom code to use as the WebShare access password.

Web Page Moderator Setup

System Status	
Device Setup	
Network Setup	
SNMP Setup	
OSD Setup	
WebShare Setup	
Web Page Moderator Setup	
Admin Password	
Firmware Update	
Reset to Default	

Web Page Moderator Password		
Enter New Password	<input type="text"/>	<input type="button" value="Apply"/>
Confirm New Password	<input type="text"/>	
Web Page Moderator Access	<input checked="" type="radio"/> Enable <input type="radio"/> Disable	

Figure 25. Web Page Moderator Setup

The Web Page Moderator password is used to access the moderator page. Use this screen to change the moderator password as follows.

NOTE: The factory configured password for all accounts has been set to the device serial number (passwords are case sensitive). Performing a reset sets this password to “moderate” (see [Reset to Default](#) on page 34 for reset instructions).

To change the moderator password:

1. Enter the new password in the **Enter New Password** field.
2. Re-enter the password in the **Confirm New Password** field.
3. Click **Apply** to activate the new moderator control password.

You may also enable or disable Web Page Moderator Access by clicking the **Enable** or **Disable** radio buttons.

Admin Password

System Status	
Device Setup	
Network Setup	
WiFi Setup	
SNMP Setup	
OSD Setup	
WebShare Setup	
Web Page Moderator Setup	
Admin Password	
Firmware Update	
Reset to Default	

Configure Password		
Enter New Password	<input type="text"/>	<input type="button" value="Apply"/>
Confirm New Password	<input type="text"/>	

Figure 26. Admin Password

The Admin password is used to access the Configuration pages. Use this screen to change the Admin password as follows.

NOTE: The factory configured password for all accounts has been set to the device serial number (passwords are case sensitive). Performing a reset sets this password to “configure” (see [Reset to Default](#) on page 34 for reset instructions).

1. Enter the new password in the **Enter New Password** field.
2. Re-enter the password in the **Confirm New Password** field.
3. Click **Apply** to activate the new moderator control password.

Firmware Update

System Configuration

Export System configuration

No file chosen

Firmware Version 2.0.3.24

Release Date 12/10/2019

System requires reboot after firmware update. Stop sharing before proceeding with update.

File Name No file chosen

Figure 27. Firmware Update

1 Export System Configuration

Use this section to export or import the system configuration file.

1. Click **Choose File** (see figure 27, 1) to browse to the system configuration file location, and select the file.
2. In the **Export System configuration** section, click one of the following options:

- **Export:** Export the system configuration to a configuration file.

NOTE: This option does not export the custom standby image (if one has been loaded on the standby screen).

- **Import:** Import the system configuration file to the ShareLink.

2 Firmware Update

Use this section to update the ShareLink firmware. Follow these instructions to update the firmware.

1. Download latest firmware file from the Extron website (see [Downloading ShareLink 200 N Firmware](#) on page 37).
2. Click **Choose File** (2) to browse to the firmware file location, and select the firmware file.
3. Click **Update** to start firmware update. A warning message and counter are shown on the screen. After a few minutes, “**Complete**” is shown on the screen.

Reset to Default

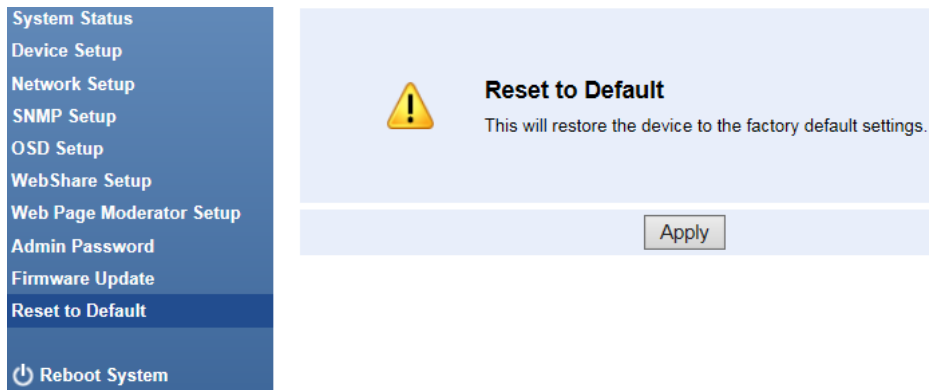


Figure 28. Reset to Default

Click **Apply** to restore factory default settings.

You can also restore factory default settings using the reset button on the bottom of the ShareLink 200 N (see **Bottom Panel Features** on page 5).

Reboot System

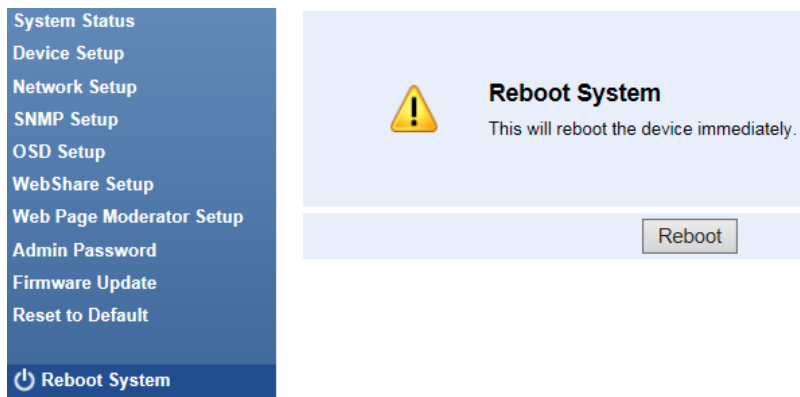


Figure 29. Reboot System

Click **Reboot** to reboot the ShareLink 200 N.

Reference Information

This section covers the following:

- [Mounting](#)
- [Downloading ShareLink 200 N Firmware](#)

Mounting

Wall Mounting

Follow these steps to mount the ShareLink 200 N on a wall using the included wall mount kit:

1. Secure the bracket to the wall using the four supplied bracket screws. Be sure to install the bracket with the large keyhole facing upward as shown below.
2. Tighten the two small mounting screws on the bottom panel of the ShareLink 200 N as shown below.
3. Insert the screwheads into the wall mount bracket. Ensure that the ShareLink 200 N receiver sits securely on the bracket.

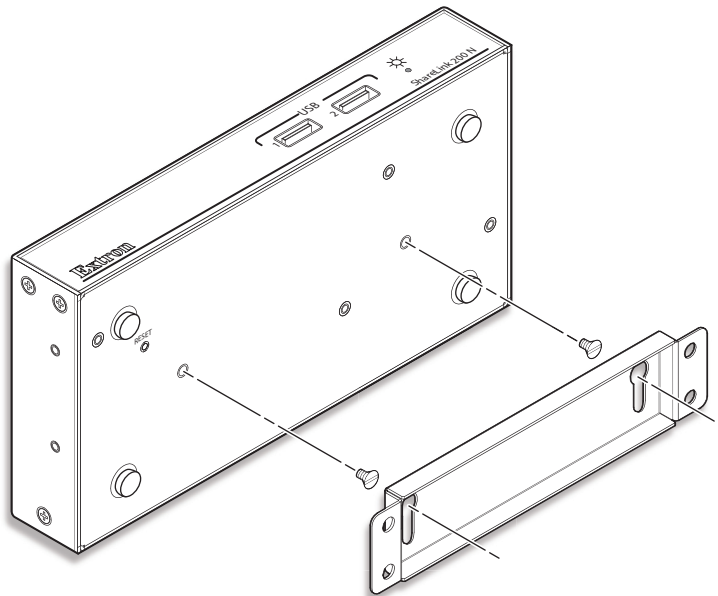


Figure 30. ShareLink 200 N Wall Mount Kit

Rack Mounting

UL Guidelines for Rack Mounting

The following Underwriters Laboratories (UL) guidelines are relevant to the safe installation of these products in a rack:

- **Elevated operating ambient temperature** — If the unit is installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient temperature. Therefore, install the equipment in an environment compatible with the maximum ambient temperature (TMA = +122 °F, +50 °C) specified by Extron.
- **Reduced air flow** — Install the equipment in the rack so that safe operation and adequate air flow is provided to the unit.
- **Mechanical loading** — Mount the equipment in the rack so that a hazardous condition is not achieved due to uneven mechanical loading.
- **Circuit overloading** — Connect the equipment to the supply circuit and consider the effect that circuit overloading might have on overcurrent protection and supply wiring. Consider the 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.

Rack Mounting Procedure

The ShareLink 200 N can be mounted in a rack, using an optional Extron rack mounting kit (see www.extron.com for part numbers). Follow the instructions provided with the kit.

Under-desk and Furniture Mounting

The ShareLink 200 N can be mounted under a desk or podium (see figure 51), using an optional Extron mounting kit (see www.extron.com for part numbers). Follow the instructions provided with the kit.

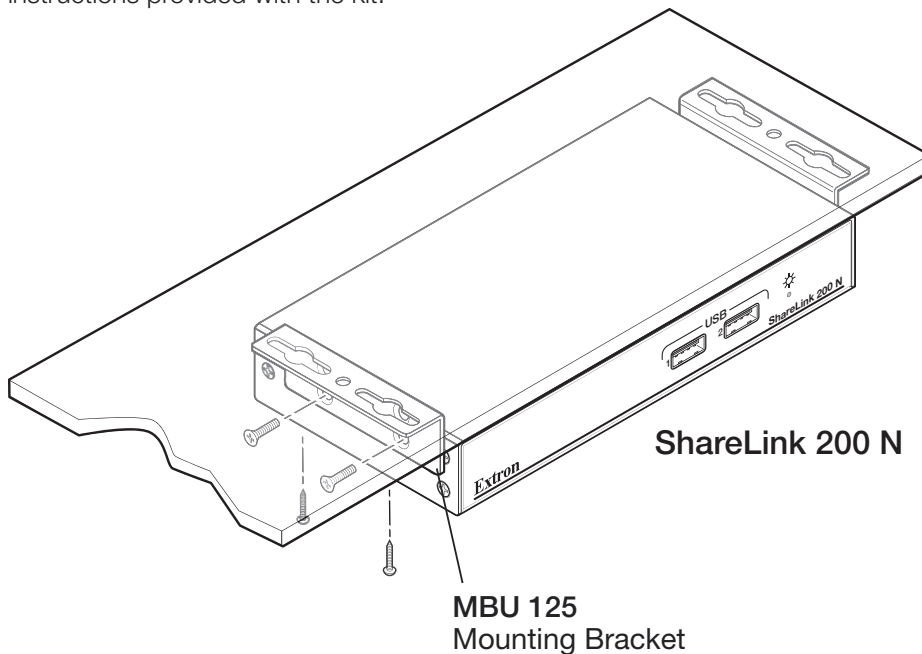


Figure 31. ShareLink 200 N with Optional MBU 125

Downloading ShareLink 200 N Firmware

To download the latest firmware for the ShareLink 200 N:

1. On the Extron website, www.extron.com, go to the **Download** tab and click **Firmware** (see figure 32, ❶).

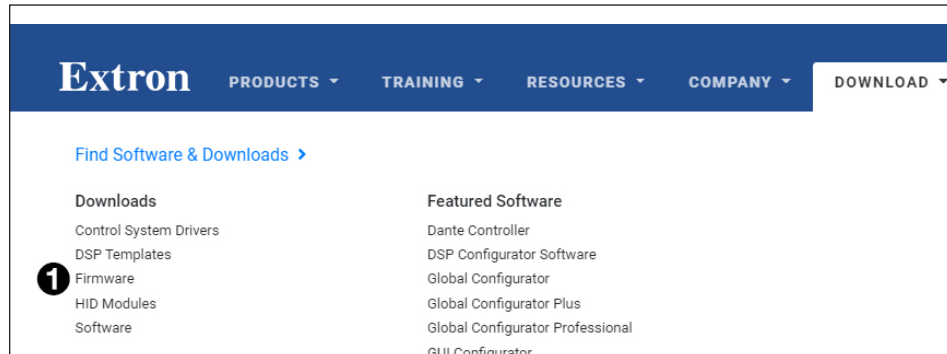


Figure 32. Firmware Link on the Download Tab

2. On the Download Center page, click **S** in the alphabet menu (see figure 33, ❶) and locate the section for the ShareLink 200 N firmware.



Figure 33. Firmware Download Center

3. Ensure the available firmware version is a later version than the current one on the device, and click the **Download** link (❷).

NOTE: The firmware release notes provide details about the changes between different firmware versions. The file can be downloaded from the same page as the firmware.

4. Submit any required information to start the download. Note where the file is saved.

NOTE: For instructions on loading new firmware on the device, see Firmware Update on page 33.

Firewall Traversal

In order for the ShareLink 200 N gateway to function correctly with the ShareLink application, it is recommended that the following firewall rules be used to allow traffic to pass. The table below details the ports and their functions.

Port	Type	Direction	Function	Open	Notes
389 443 3268	TCP	Both	Command	Required	For best performance, it is recommended that ports 389, 443, and 3268 be open. At a minimum, one of the three needs to be open for the gateway to function properly. If one port is open and that port is used by another application, the ShareLink 200 N does not function properly.
445 515 8080	TCP	Both	Data	Required	These ports are used to screen data.
1041	TCP	Outbound	Video	Required	This port is used for video data.
1047 1048 1049	UDP	Inbound	Discover	Optional	These ports are used for discovery of the gateway. If closed, the discovery process could be impacted.
1688	TCP	Both	DLNA	Required	This port is used for audio data.
2869 49152 49153	TCP	Both	DLNA	Required	These ports are used for streaming video data to the ShareLink 200 N.
1900 50000- 65000	UDP	Both	DLNA	Required	These ports are used for streaming video data to the ShareLink 200 N.
80	TCP	Both	Web services	Required	This port is used to access the embedded webpages.
42891 42892	TCP	Both	Update utility	Required	These ports are used for batch update of firmware.
1689	TCP	Both	Debug	Optional	This port is used for the debugging log.
19996	TCP	Both	Command	Required	This port is required for Moderator control.
31865	TCP	Both	Data	Optional	This port is used by Android mobile devices.
137	UDP	Both	NetBIOS	Optional	This port is used by NetBIOS for naming service.
161	UDP	Both	SNMP	Optional	This port is used for SNMP management.

Extron Warranty

Extron Electronics 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 Electronics 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 Electronics
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 Electronics, 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
United Arab Emirates, Dubai

Africa:

Extron South Africa
3rd Floor, 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.

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

Africa: 27.11.447.6162

Middle East: 971.4.299.1800

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.