

ASTROS Station User Manual

AS-201 / AS-101

V3.1



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1 ASTROS Station Introduction

ASTROS wireless presentation solution enables users to experience modern ways of communication with Astrogate's advanced network-based wireless AV distribution technology. Cross-platform ASTROS Apps and our native mirroring protocol supported allow users to present contents from various devices with existing network infrastructure. ASTROS also offers collaboration features that work seamlessly with touch displays to further increase the efficiency of communication and stimulate creativity.

ASTROS Station Key features highlight

Reliable ASTROS BYOM

- Easily host or join a video conference using your preferred tool directly from your laptop.
- Seamlessly connects the meeting host with the room Display & VC peripherals wirelessly on Zoom, Teams or Meet

High performance wireless presentation

- 4K full screen or 2K split-screen wireless presentation
- 4K video output

Screen sharing and advanced features by cross-platform ASTROS Apps

- BYOD: support Windows, macOS, Chrome OS, iOS, and Android
- Native mirroring: AirPlay mirroring, Google Cast and Browser Sharing
- Window Sharing: choose to share entire screen or selected application window on Windows and macOS
- Remote View: view and save the main screen in high quality and in real time (only available on AS-201)

- One-to-many: share contents to maximum 4 ASTROS Stations simultaneously
- Touch back: remotely operate a touch-supported device from a touch display

Intuitive and collaborative main screen features

- Split screen: AS-101 is up to 2, and AS-201 is up to 4 contents shared on the main screen simultaneously including AirPlay and Google Cast
- Moderation Mode: control what is being presented to the audience

- Auto layout or manual layout: automatically arrange the presented contents, or drag and drop to change the layout
- Whiteboard, Annotation, and Screen Capture: quickly express idea during the session (only available on AS-201)

Manage ASTROS Station with ease

- Browser-based ASTROS Configuration page

Network

- Up to 8 / 20 users can connect to AS-101 / AS-201 simultaneously
- Support Wi-Fi 802.11ac protocol
- Support NAT mode & Bridge mode
- Change Gatekeeper setting to control Internet or Intranet access
- Support 4-digit Login code setting and data transfer encryption

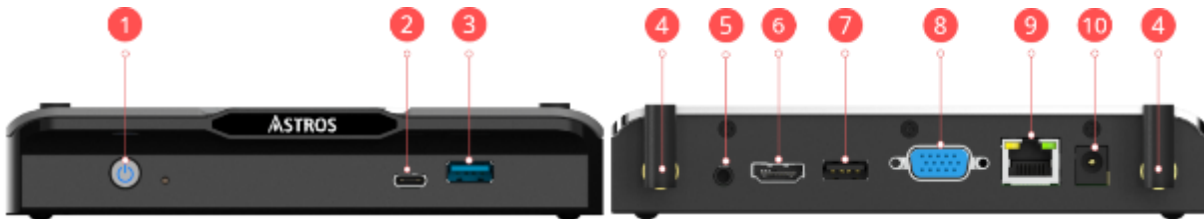
2 About ASTROS Station

2.1 Package Contents

ASTROS Station x1
Quick Installation Guide x1

Antenna x2
Power adaptor (12V 2A) x1

2.2 Interface



ASTROS Station front and rear view

- | | | | |
|---|--------------------|----|---------------------------------|
| 1 | Power button* | 6 | HDMI 1.4 output |
| 2 | USB Type-C | 7 | USB 2.0 Type-A |
| 3 | USB 3.0 Type-A | 8 | VGA output |
| 4 | Antenna connectors | 9 | Ethernet connector, support PoE |
| 5 | Audio out | 10 | Power jack |

✧ Power button and LED behavior

Sleep mode: short press to enter or quit sleep mode

Suspend mode: short press to enter suspend mode then long press for 2 to 3 seconds to quit suspend mode

Factory reset: long press until "Warning..." dialog appears on screen

Red light: sleep mode

Blue light: power on

Blinking red and blue light: firmware updating

✧ USB devices support on ASTROS Station

Mouse / Touch panel / USB flash drive

2.3 Specification

Compatible OS	Windows 10+ macOS 10.14+ iOS 14+	Android 10.0+ Chrome OS Chrome 84.0.4147.110 +
Support protocol	BeamOp, AirPlay, Google Cast, Browser Sharing	
Video output	HDMI / VGA	
Output resolution	HDMI only: 4K@60Hz HDMI + VGA dual output: 1080p@60Hz	
Audio output	HDMI & Audio Jack 3.5mm	
Wi-Fi Band	Switchable dual band 2.4GHZ / 5GHz (DFS channels not supported)	
Wireless transmission protocol	IEEE 802.11ac	
Authentication	AP mode: WPA2-PSK Station mode: WEP, WPA, WPA2, 802.1x EAP	
Ethernet Interface	10/100/1000 Mbps RJ-45 LAN (support PoE for AS-201)	
Interface	1 x HDMI, 1x VGA 1 x USB 2.0 Host Type-A 1 x USB 3.0 Host Type-A 1 x USB 3.0 Host Type-C 1 x 3.5mm Audio Jack 1 x 10/100/1000 Ethernet LAN 1 x Power Jack	
Power supply	PSU: 12V 2A PoE: 48V / 0.32A (Only available for AS-201)	
Net weight	500g	
Dimension	170mm x 104.4mm x 30.5mm (W x D x H)	
Temperature	Operating: 0° – 40° C (32° – 104° F) Storage: -10° – 70° C (-4° – 158° F)	
Humidity	Operating: 20 – 80% non-condensing Storage: 10 – 90% non-condensing	
Certificate	FCC, CE, NCC, BSMI	
Warranty	3 years	

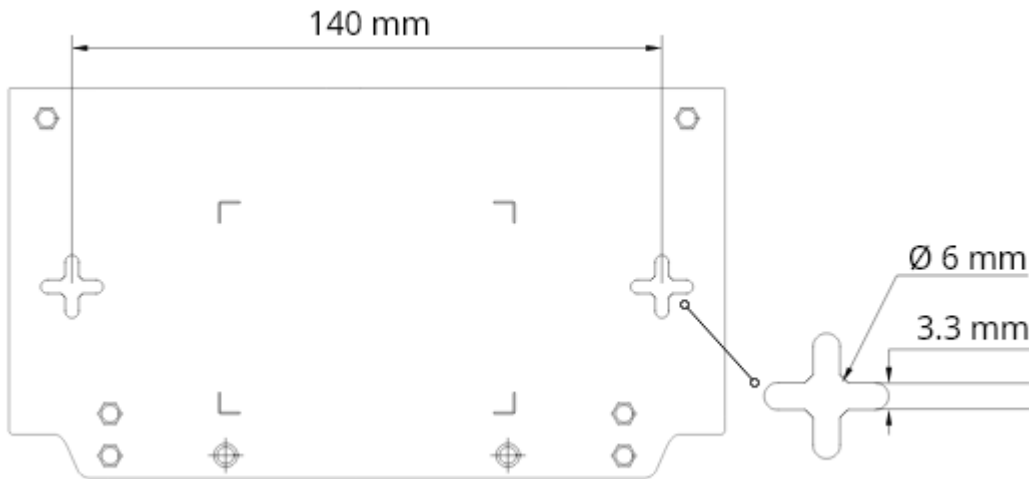
2.4 Port used by ASTROS Station

Service	Type	Port number	Direction	Note
AirPlay	UDP	5353	in/out	mDNS, device discovery
AirPlay	TCP	7002	in/out	AirPlay service port
AirPlay	TCP	7100	in/out	AirPlay service port
AirPlay	TCP	7202	in/out	AirPlay service port
AirPlay	TCP/ UDP	20200-20299	in/out	AirPlay RTP
Google Cast	UDP	5353	in/out	mDNS, device discovery
Google Cast	TCP	8008	in/out	Google Cast service port
Google Cast	TCP	8009	in/out	Google Cast service port
Google Cast	UDP	20400-20420	in/out	Google Cast mirroring data
ASTROS App	TCP	42302	in/out	ASTROS App
Dnsmasq	TCP/ UDP	53	in/out	DNS
Broadcast	UDP	1900-1901	in/out	Broadcast device discovery
Web	TCP	443	in/out	Configuration page
Web	TCP	8081	in/out	File delivery
Web	TCP	20616	in/out	Browser Sharing

3 ASTROS Station Installation

3.1 Wall mounting

- 1 Drill two holes in the wall with the distance shown on image below. Use screw anchors if needed.



ASTROS Station bottom view

- 2 Drive in two screws.
The screw head diameter: between 3.3 and 6 mm.
The screw rod diameter: smaller than 3.3 mm.
Do not drive in the screws completely.
- 3 Hang the ASTROS Station to both screw heads and slide downwards until it is fixed. (Suggested height of wall mounting lower than 3 meters)

3.2 Connect Cables

- 1 Connect to a display with a HDMI or VGA cable.
If the display supports touch, also connect a USB cable.
- 2 Connect an Ethernet cable.
- 3 Connect a mouse. (Optional)
- 4 Connect the power adapter.
ASTROS Station will automatically turn on without pressing the power button.

4 ASTROS Station Configuration

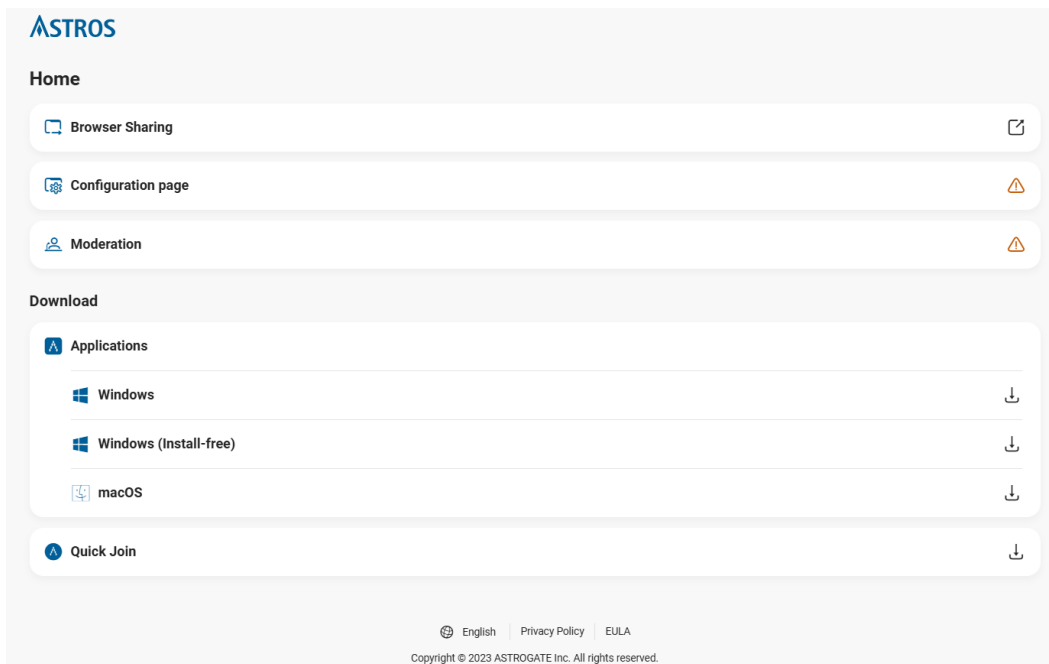
4.1 Access ASTROS Configuration page

- 1 Prepare a device with web browser capability. (a laptop is preferable)
- 2 Make sure your device and the ASTROS Station are connected to the same network.

For more information, see Network Integration.

- 3 On the Standby Screen, find ASTROS Station's IP address on the left-hand side.
- 4 Type in IP or https://Station name in a web browser.
The default configuration page IP address is 192.168.120.11 if the Ethernet cable is not connected to the ASTROS Station.
- 5 For the first time log in, please set the passwords for Configuration page and Moderation.
 - ✧ Try to add "https://" in IP address if you have trouble accessing the ASTROS Configuration page.
 - ✧ You will be automatically logged out to the Landing Page if idle for 15 minutes.

4.2 The Landing page








ASTROS Station Landing page – First login

Home

Browser Sharing
Configuration page

Moderation

Click  to open a new tab and click “Start sharing”
Click  to set the password upon first login. After the password is set, click the  to log into the Configuration page.
Click  to set the password upon first login. After the password is set, click the  to log into the Moderation.

Download


You could download the ASTROS app at this section

Click  to download ASTROS App for **Windows**, an installation-required version for frequent users on Windows.

Click  to download ASTROS App for **Windows (Install-free)**, a green version for guest to use.

Click  to download ASTROS App for **Mac**, an installation-required version for frequent users on macOS.

Quick Join: download a shortcut file with connection information of this ASTROS Station; see 5.3 > ASTROS Quick Join for more information.

Language  English :user could change the language of the Configuration page at the bottom of the webpage.

4.3 General

The screenshot shows the 'General' configuration page for an ASTROS station. On the left is a navigation menu with options: General (selected), HDMI & VGA, Date & Time, Wi-Fi, Ethernet, Update, Password, System, Power Saving, Remote Access, Reboot, and Logout. The main content area is titled 'General' and includes an 'Apply' button in the top right. The settings are as follows:

- Station name:** A text input field containing 'AS201-0023'.
- Login code:** Three radio buttons: 'Random' (unselected), 'No code' (selected), and 'Fixed' (unselected).
- Allow Remote View:** A toggle switch that is turned on (blue).
- Background image:** A section with instructions: 'The background image must meet the following format: - Image format: png or jpeg - Width/height ratio should be between 1.5 to 2.0'. It features a grid of six image preview slots. The top-left slot is selected with a checkmark and shows an ASTROS logo on a dark background. The top-middle slot shows the ASTROS logo over a view of Earth from space. The other four slots are empty grey boxes with download arrows below them.
- Language:** A dropdown menu currently set to 'English'.

ASTROS Station Configuration page – General

Station name	The displayed name for this ASTROS Station. The name will be displayed on the Standby Screen and ASTROS App's Station list. It will also be the SSID (Wi-Fi name) for ASTROS Station wireless access point. Default name: AS101-xxxx / AS201-xxxx Format: A to Z, a to z, 0 to 9 and "-" hyphen sign. Up to 16 characters.
Login code	Random: Login code enabled, generated randomly No code: Login code disabled Fixed: Login code enabled, customized 4 digits
Allow Remote View	Enable the Remote View feature of Station

Background image



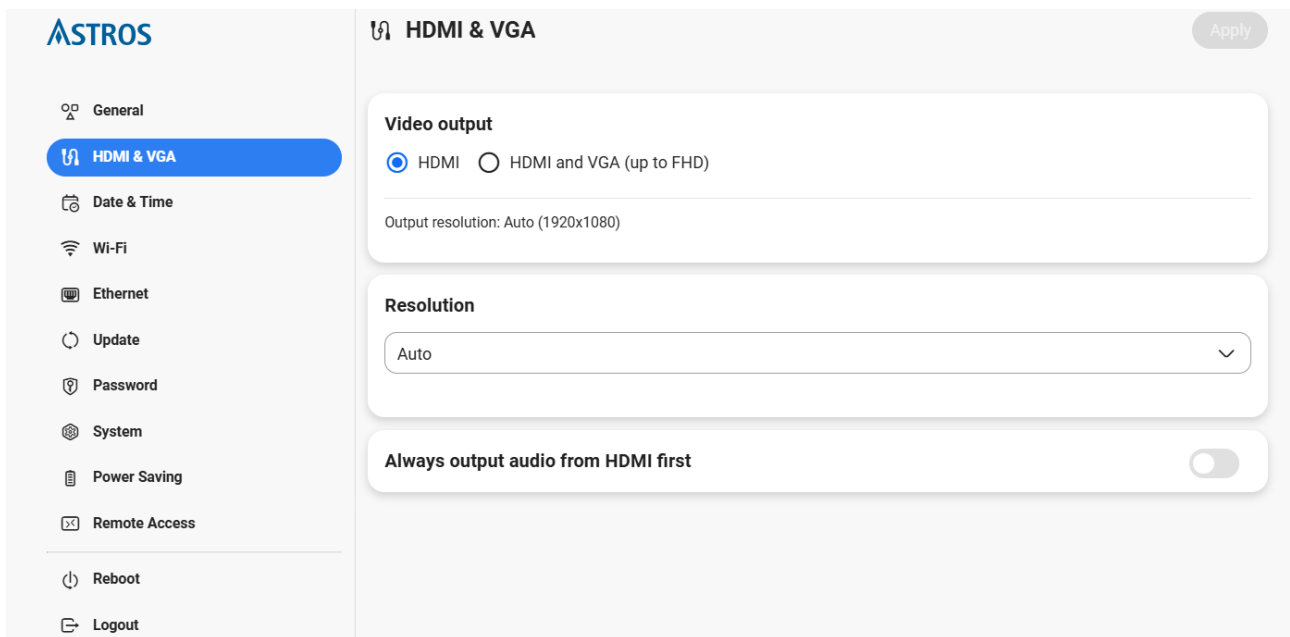
There are two built-in images (unremovable) with the first one selected as default. Click on the “add”  button to upload a custom background image from your device. Click on the “delete”  button to delete the custom background image.

Image format: png or jpeg; width/height ratio between 1.5- 2.0; less than 4K resolution is recommended

Language

Select the system language for this ASTROS Station

4.4 HDMI & VGA



ASTROS Station Configuration page- HDMI & VGA

Video output

HDMI only (default): Maximum resolution is up to 4K resolution.
HDMI and VGA: Enable dual-display output. In this mode, the maximum resolution is up to 1080p.

Output Resolution

Display the current resolution output by Station

Resolution

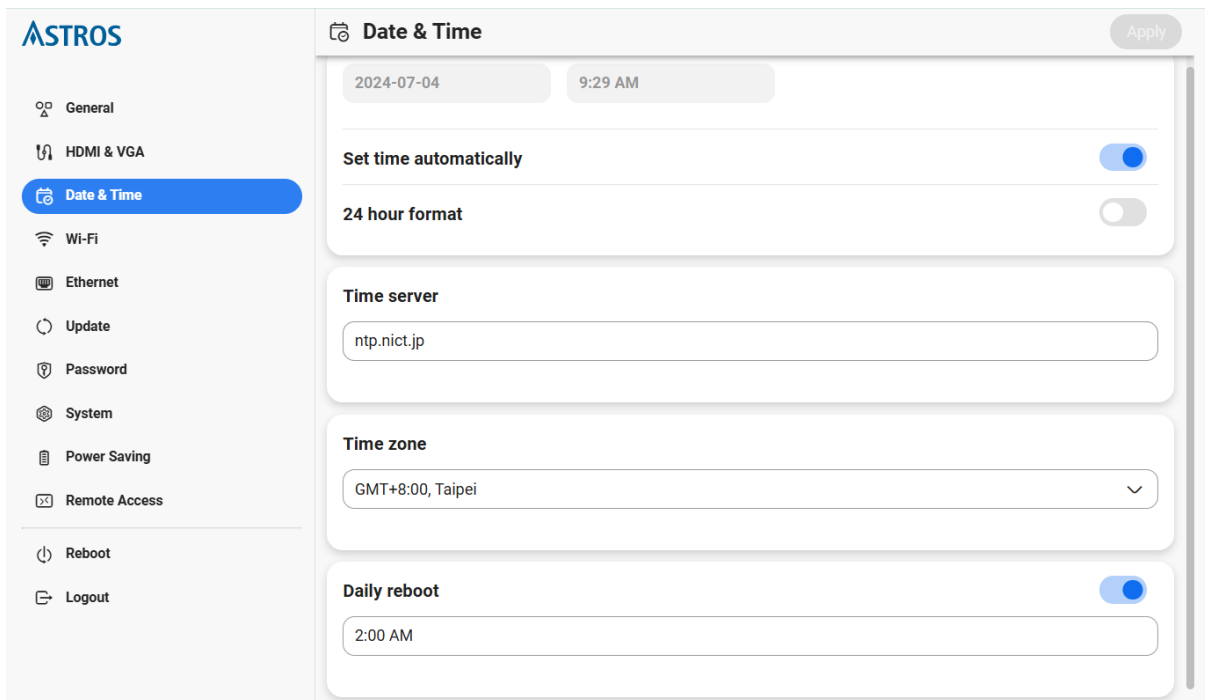
Select your preference resolution, the default is Auto.

Always output audio from HDMI first

When enable this option, the audio would output from HDMI even with USB speaker connected to the Station

- ✧ The available resolution depends on the connected monitor. When using dual-display output, both will be set to the same resolution.
- ✧ When audio jack and HDMI are both connected, the audio will be duplicated.

4.5 Date & Time



ASTROS Station Configuration page- Date & Time

Current date & time	Displays current date and time of ASTROS Station
Set time automatically	Automatic time retrieval by default. Enabled: automatically retrieve time and date from specified timer servers Disabled: manually set time and date
24 hour format	Enabled: 24 hour clock Disabled: 12 hour clock
Time server	To synchronize the time and date for your ASTROS Station, or choose Manual to set the server's IP address
Time zone	Select your time zone from the drop-down menu
Daily reboot	Choose the time to automatically reboot daily

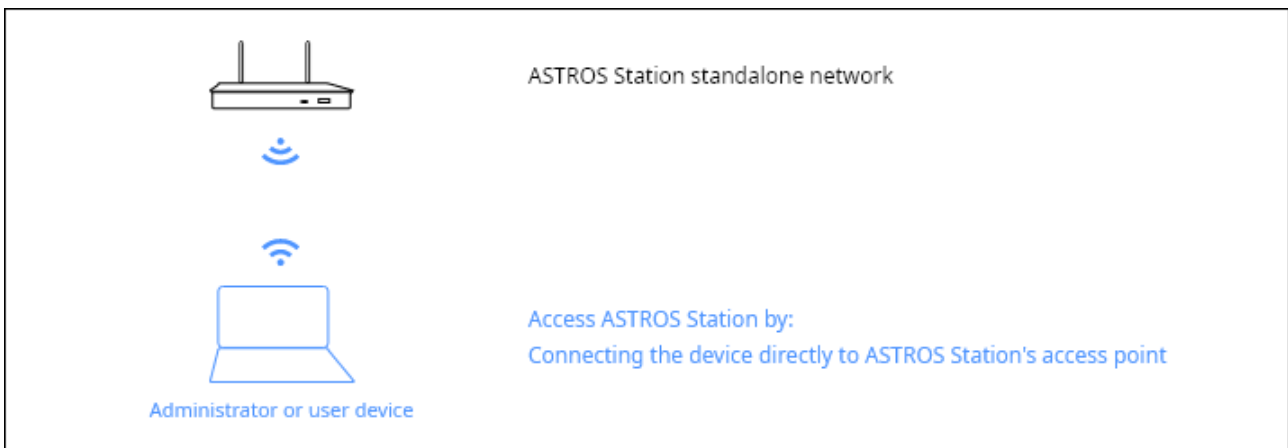
✧ Time synchronization is necessary for screen sharing. Please ensure the date and time is set correctly.

4.6 Wi-Fi / Ethernet

This section shows your options to integrate the ASTROS Station to the environment. How an administrator or a user access the ASTROS Station depends on which type of setup you choose.

- ✧ It is recommended to connect ASTROS Station to corporate network via Ethernet when performing Wi-Fi configuration.
- ✧ Switching Wi-Fi modes requires clicking Apply button to take effect.

Type 1: ASTROS Station Standalone network



ASTROS Station standalone network

With the following steps, you may set an ASTROS Station to Type 1 mode:

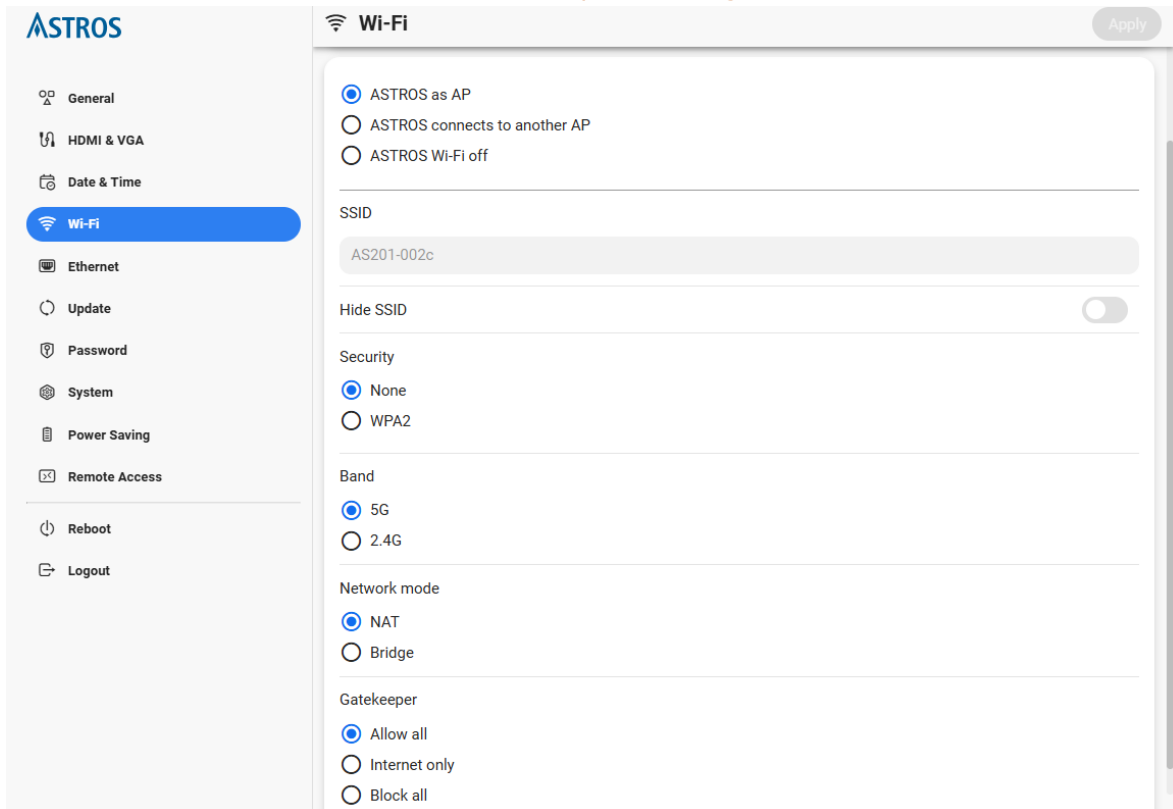
- 1 Ensure no Ethernet cable is connected to ASTROS Station
- 2 On the ASTROS Configuration page, go to [Wi-Fi]
- 3 Choose [ASTROS as AP]
- 4 Click the [Apply button]

With this setup, ASTROS Station will become a wireless access point.

Default SSID: AS101-xxxx / AS201-xxxx.

Default IP address: 192.168.120.11.

✧ Advance ASTROS Station Wi-Fi access point settings:



ASTROS Station Configuration page- Wi-Fi 1

SSID	The broadcasted Wi-Fi name of this ASTROS Station. SSID by default is set to the same as the Station name. To change this, go to [General] > [Station name].
Hide SSID	Switch on to hide SSID.
Security	Set Wi-Fi protection mode to None or WPA2. WPA2 password format: A to Z, a to z, 0 to 9; 8 to 16 characters.
Band	Select 5G (default; recommended) or 2.4G.
Network mode	Select NAT (default) or Bridge
Gatekeeper	Select Allow all (default), Internet only or Block all

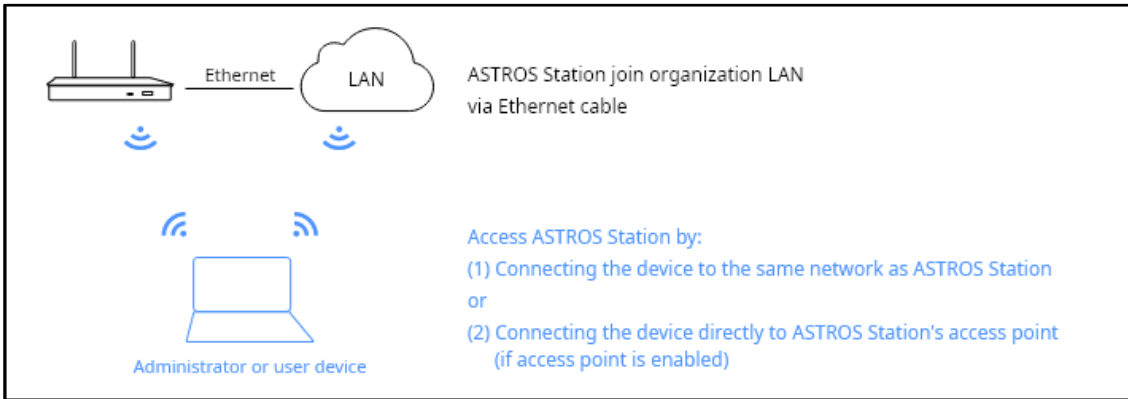
✧ To switch to a different Wi-Fi mode, please configure to NAT mode first.

✧ Bridge mode selected: DHCP server of the ASTROS Station will be disabled. Please connect a DHCP server enabled Ethernet to the ASTROS Station. The obtain IP method of the ASTROS Station will be switched to DHCP.

Type 2: ASTROS Station join organization Local Area Network (LAN)

There are two ways to connect ASTROS Station to your organization LAN: via Ethernet cable (Type 2-1) or via Wi-Fi (Type 2-2).

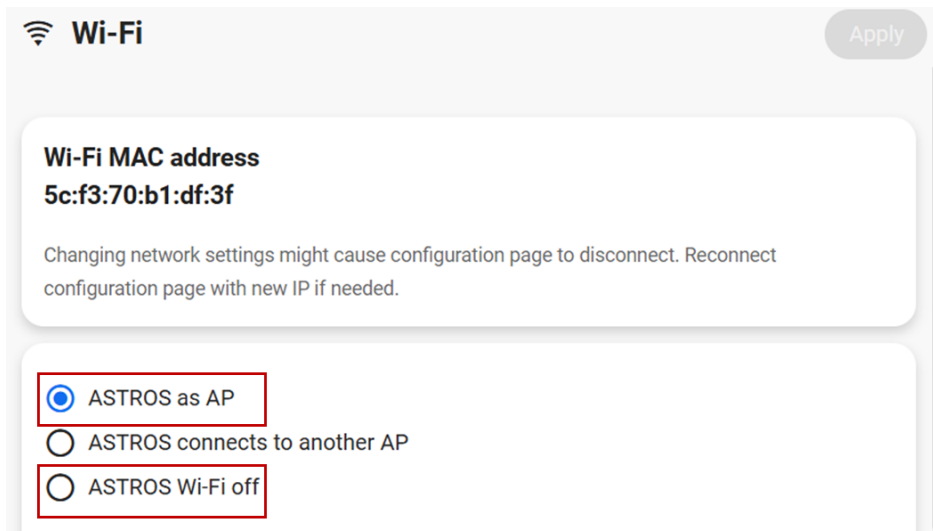
Type 2-1: ASTROS Station join organization LAN via Ethernet cable



ASTROS Station join organization LAN via Ethernet cable

With the following steps, you may set an ASTROS Station to Type 2-1 mode:

- 1 Connect an organization Ethernet cable to ASTROS Station
- 2 On the ASTROS configuration page, go to [Wi-Fi]
- 3 Choose [ASTROS as AP] (if you wish to enable Station's access point) or [ASTROS Wi-Fi off] (if you wish to disable Station's access point)



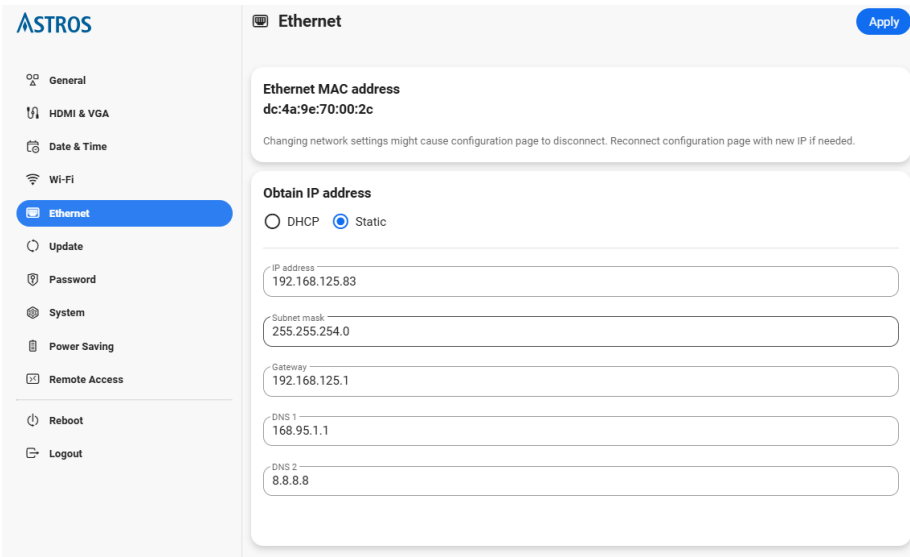
ASTROS Station join organization LAN via Ethernet cable

- 4 Click the [Apply button]

With this setup, the Station will obtain Ethernet IP address from the DHCP server and display it on the Standby Screen.

You may set static ethernet IP address with the following steps:

- 1 On the ASTROS Configuration page, navigate to [Ethernet]
- 2 Choose [Static]
- 3 Fill in valid IP information. All information should be in IPv4 format.
- 4 Click the [Apply button]



ASTROS Station Ethernet connected and static IP configuration

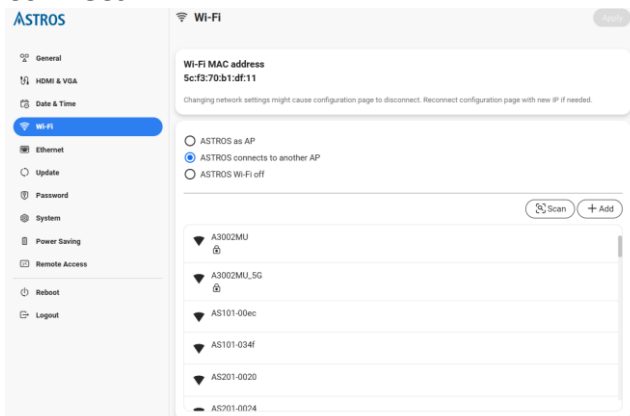
Type 2-2: ASTROS Station join organization LAN via Wi-Fi



ASTROS Station join organization LAN via Wi-Fi

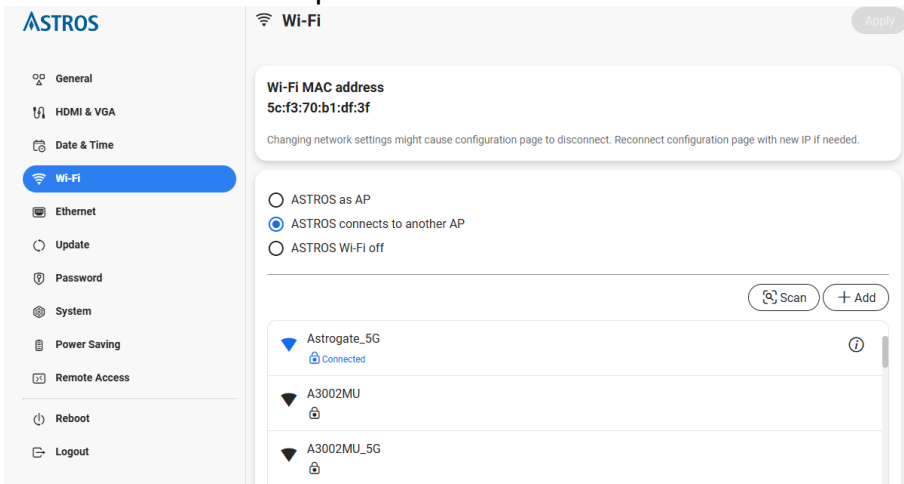
With the following steps, you may set an ASTROS Station to Type 2-2 mode:

- 1 On the ASTROS Configuration page, navigate to [Wi-Fi]
- 2 Choose [ASTROS connects to another AP]
- 3 Find the targeted organization wireless access point on the Wi-Fi list and connect



ASTROS Station Configuration page- Wi-Fi 2

To connect to the organization wireless access point manually, click [Add button] to start the connection process



ASTROS Station Configuration page- Wi-Fi 2 (Connect.)

4 Click the [Apply button]

With this setup, ASTROS Station will obtain IP address from the DHCP server and display it on the Standby Screen.

5 Remove the Ethernet cable from ASTROS Station

- ✧ Users or administrators must connect their device to the organization LAN to access ASTROS Station.
- ✧ Ethernet cable must be removed for Type 2-2 to take effect.

4.7 Update

Model name	Model name of the ASTROS Station
Version number	Displays firmware version of the ASTROS Station; Access to read all release note.
OTA update	Check for update via Over-the-air (OTA) by clicking “Check for update” to check the latest firmware version. If new version is found, click “Upgrade”, ASTROS Station will start the firmware upgrade process when download is complete. The Configuration page will not be accessible until the upgrade process is completed.
Manual update	Download the latest ASTROS Station firmware at https://www.astrogate.com/download/ Click the blank column to choose the .asg file and click the “Upgrade” button to start the upgrade process. ! The file extension of ASTROS Station firmware is .asg.

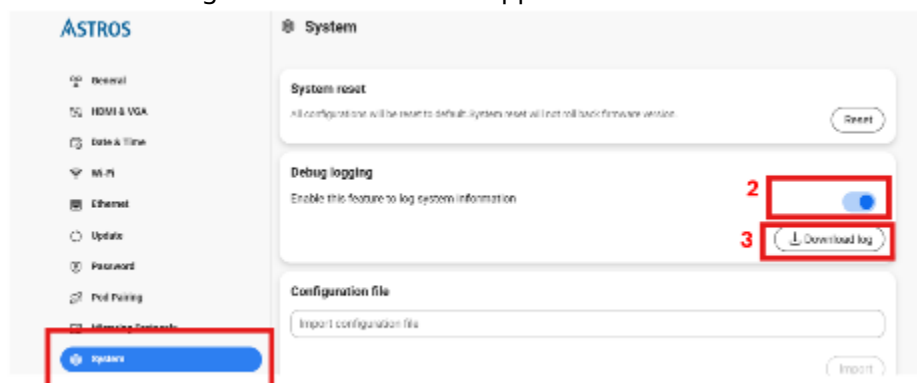
4.8 Password

This page allows you to change Configuration page password and perform system settings.

Configuration page password	Change Configuration page password Format: A to Z, a to z, 0 to 9; up to 16 characters.
Moderation password (available for AS-201)	Change Moderation page password Format: A to Z, a to z, 0 to 9; up to 16 characters.

4.9 System

System reset	Perform system reset
Debug logging	Please follow the steps below to collect the LOG for our further analysis. a. Go to Web > System > Enable debug logging (button 2) b. Reproduce the issue step by step. c. Confirm the issue has been duplicated. > click Download log (button 3) d. Provide the log file to our technical support.



Configuration file	Import or export Configuration file for ASTROS Station
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4.10 Power Saving

This page allows you to choose ASTROS Station power button behavior when you press it.

Sleep mode

In Sleep mode, ASTROS Station turn off only the video and audio output. Users can still discover this ASTROS Station and connect.

To enter Sleep mode: short press the power button for 1 second.

To quit Sleep mode: short press the power button for 1 second or any connection attempt.

Enter Sleep mode automatically

When you set power button behavior to Sleep mode, you may set ASTROS Station to automatically enter Sleep mode if no operation is made for a certain period.

Suspend mode

In Suspend mode, ASTROS Station will shut down all functions to decrease power consumption to minimum.

To enter Suspend mode: short press power button for 1 second.

To quit Suspend mode: short press power button for 1 second.

4.11 Remote Access

ASTROS Manager Server	The host name of the ASTROS Manager Server
RESTful API key	Generate key for RESTful API

4.12 Reboot

Click this button to reboot ASTROS Station.

4.13 Logout

Click to log out the Configuration page

5 Screen Sharing with ASTROS App

5.1 Download ASTROS App

Windows and macOS

Go to Astrogate.app website to download the ASTROS App for your device.

Android, iOS and iPadOS devices

Search for ASTROS App in Google Play or App Store (keywords: ASTROS + Astrogate)

✧ [Learn more about ASTROS App supported OS and version in the Specification.](#)

5.2 Connect to an ASTROS Station

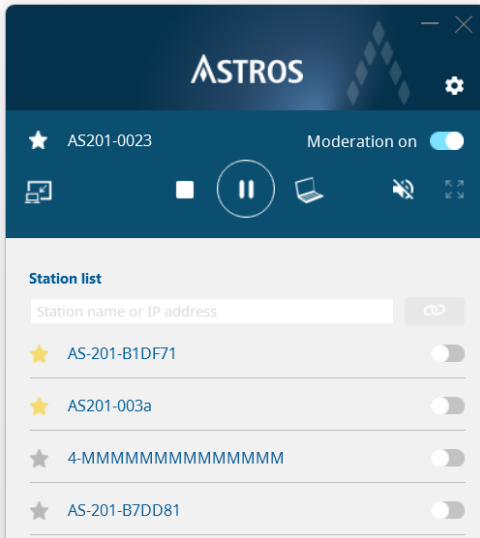
Steps

- 1 Launch the ASTROS App
- 2 On the Station list, find the name same as the “Station name” shown on the information panel of the Standby Screen.
- 3 If the Station name does not appear on the Station list, open your device’s Wi-Fi list, look for the Station name and connect. Then repeat step 1.
✧ [Depending on the ASTROS Station network setup, you may be able to connect to ASTROS via organization network, Wi-Fi direct connection or both. See Network integration for more information.](#)

5.3 Operating ASTROS App

Station list

ASTROS App will list all the ASTROS Stations discovered on the same network and nearby Stations.




Station list on the ASTROS App


Search bar

You can use Search bar to:

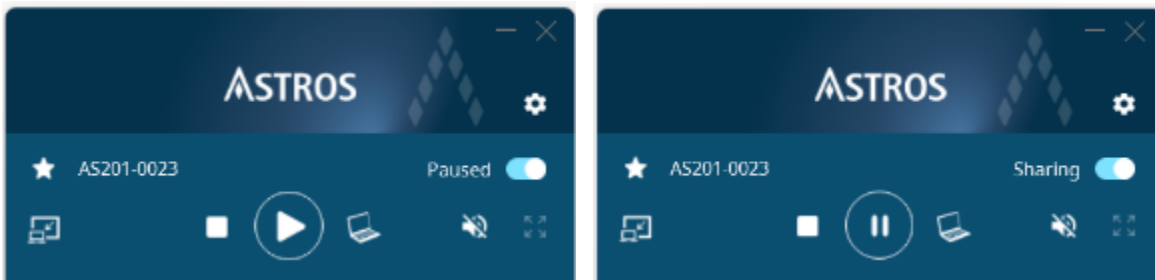
- Type in key characters to quickly find the ASTROS Station you are looking for.
- Type in IP address to connect to a specific ASTROS Station on the same network as your personal device

Play, Pause and Stop button

When you first connect to an ASTROS Station, click the “Play button”  to start sharing your entire screen to the main screen.

While sharing, click the “Pause button”  will freeze your projection on the last frame.


When clicking the “Stop button”  the ASTROS App will instantly stop sharing your screen.



Play/ Pause and Stop button on the ASTROS App


Window Sharing

✧ Available on Windows and macOS


You can choose to share only a specific application window or the entire screen. Click “Window Sharing button”  to make your selection then click on the Play button to share.

✧ During the Window Sharing, your screen sharing will be frozen if the window you have selected is not being placed on top of all windows or is being minimized. In such circumstance, the Touch Back feature will not work as you intended either.

Full Screen button

Click the “Full screen”  button to force your screen sharing to switch between full screen and split screen.

Mute Button

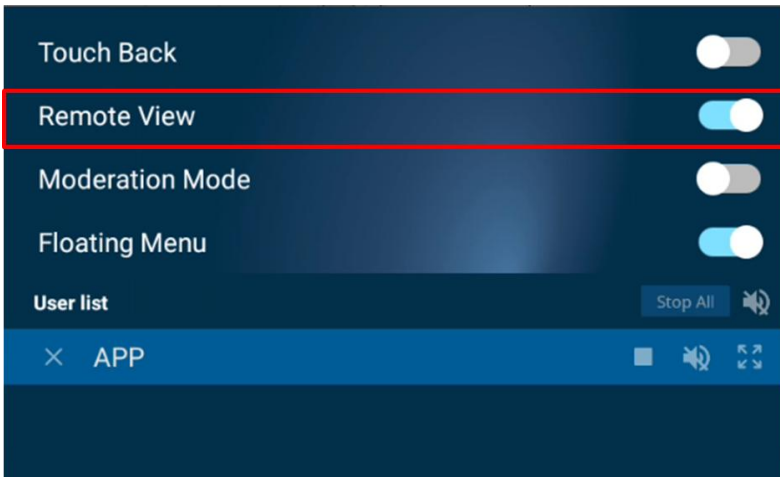
Click the “Mute button”  to turn on or off the audio of your screen sharing.

Remote View

✧ Available on AS-201

Click the “Remote View”  button to view the main screen with the ASTROS App.

✧ Enable or disable Remote View on the Control Panel



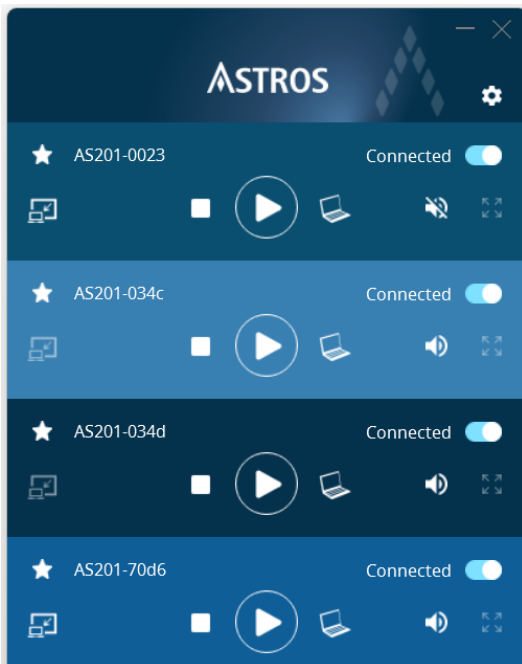
Enable Remote View on the Control Panel

✧ Or in the [ASTROS Configuration page](#). Refer to [4.3](#) [General > Enable Allow Remote View](#)

One-to-many


✧ Available for Windows and macOS

ASTROS App for Windows and macOS allows users to connect and share to up to 4 ASTROS Stations simultaneously. Users can choose to share different contents to different ASTROS Stations.



An ASTROS App that is connected to four Stations

Favorite Stations

Users can mark frequently used ASTROS Stations as favorites by clicking the star-shaped “Favorite button”  next to the Station name. The marked ASTROS Station will always be prioritized on the Station list.

ASTROS Quick Join

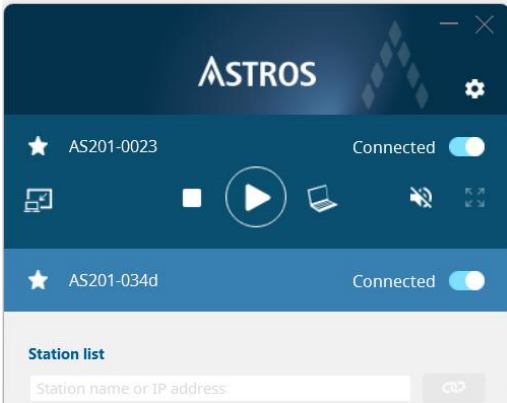
- ✧ Available on Windows and macOS
- ✧ On Windows, support only ASTROS App installation version

ASTROS Quick Join allows users to quickly connect to a pre-determined ASTROS Station.

Download Quick Join file on the configuration landing page of a specific ASTROS Station. The Quick Join file can be renamed and dispatched to other computers. Refer to 4.2 *The Landing Page > ASTROS App for Quick Join*

Collapse and expand connected ASTROS Station

Click the Station name to collapse the presentation panel. Click again to expand.



An expanded presentation panel and a collapsed presentation panel

Configure ASTROS App

Click the “configuration button”  to:

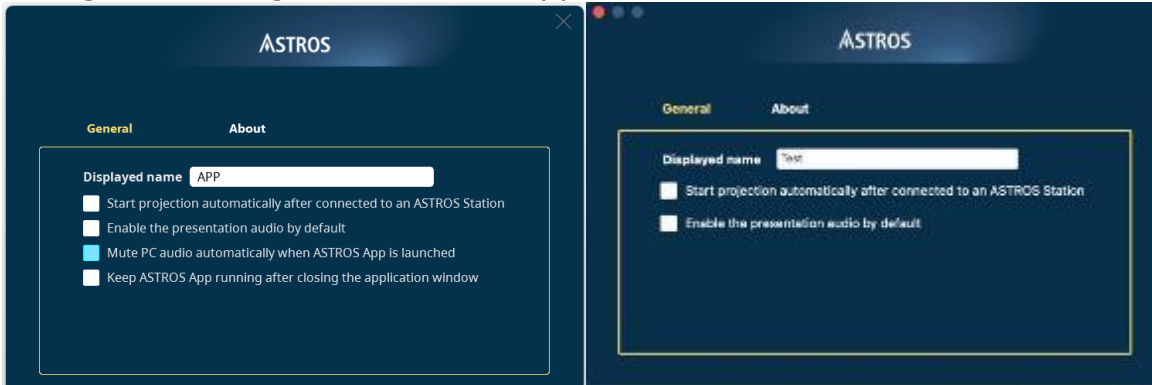
General

1 Change Displayed name

Change the name displayed on the main screen.

2 Configure the setting

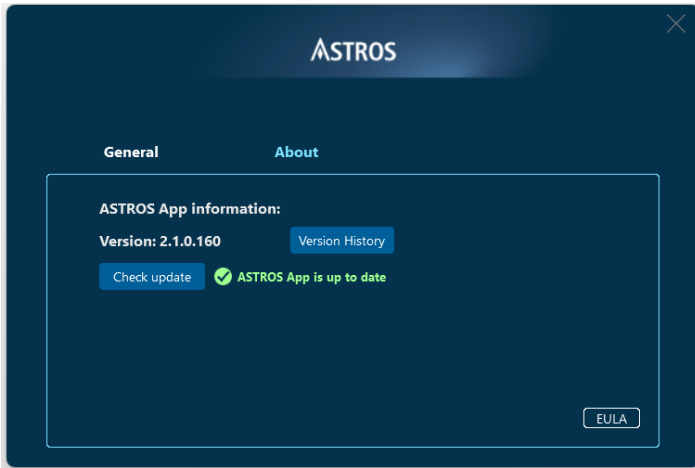
Change the setting of the ASTROS App.



Change displayed name or configure the setting of ASTROS Windows App(left) and macOS App(right)

About

1. Version and update



Check current app version and check for update here.

ASTROS App will check for update every time you launch the app. If an update is available, an exclamation mark will appear on top of the Setting button.

Enable sound for macOS sharing

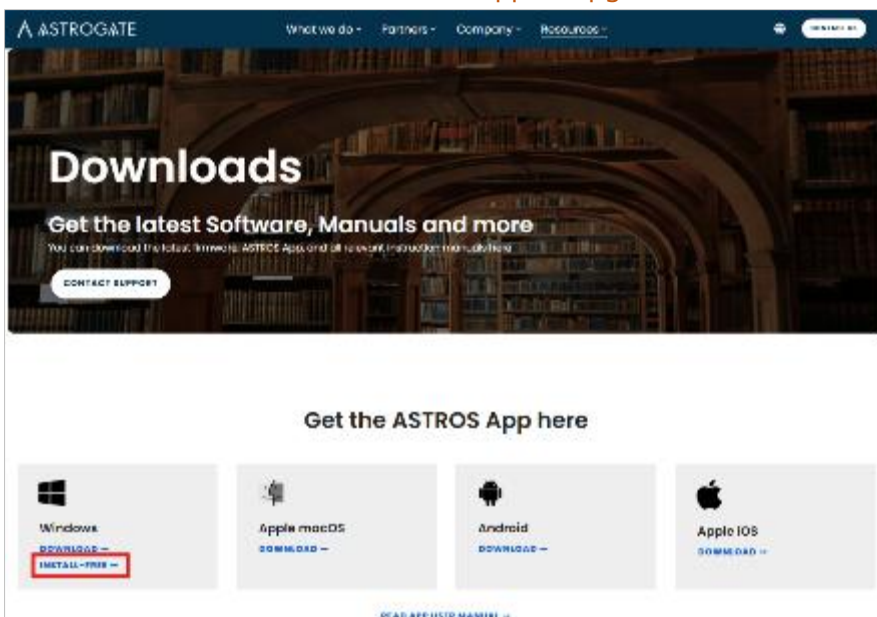
Audio driver is required for ASTROS App to share audio in the macOS environment. A yellow dot will appear on top of the Mute button if audio driver is not installed. To install the driver:

- 1 install the audio driver during ASTROS App installation, or
- 2 click the Mute button to trigger the audio driver installation process.

Windows install-free version

Download Install-free ASTROS App at: www.astrogate.com/downloads. Or [The Landing Page]> ASTROS App for Windows (Install-free)

✧ Install-free version does not support upgrade function nor ASTROS Quick Join.

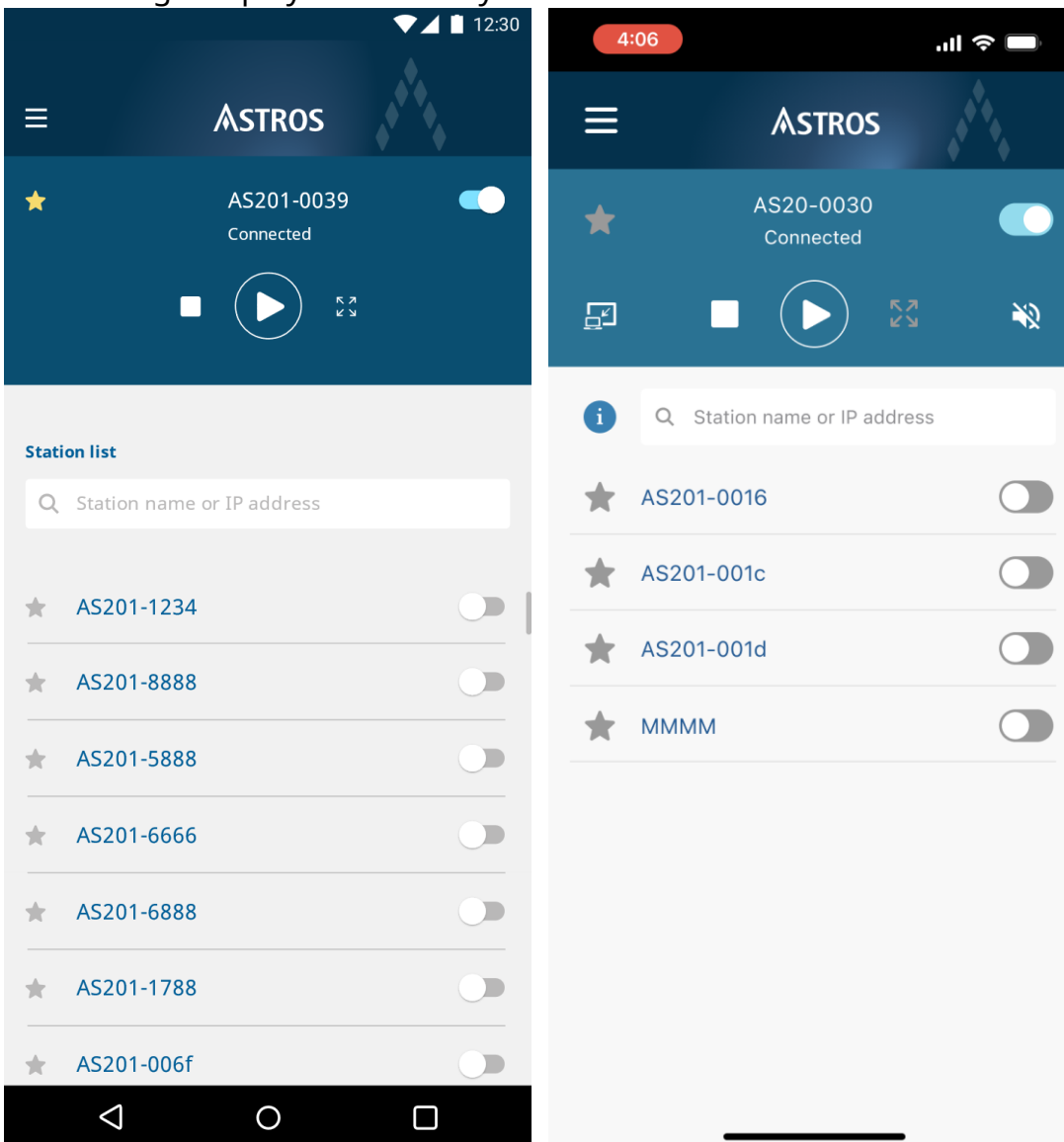


Windows install-free version download link: [Astrogate website](#)

5.4 ASTROS App for Android, iOS and iPadOS

Android or iOS/iPadOS devices and ASTROS Station need to be on the same network. Launch ASTROS App, then find the name same as the “Station name” shown on the information panel of the Standby Screen. Press connect toggle and Play button to start sharing. This App supports:

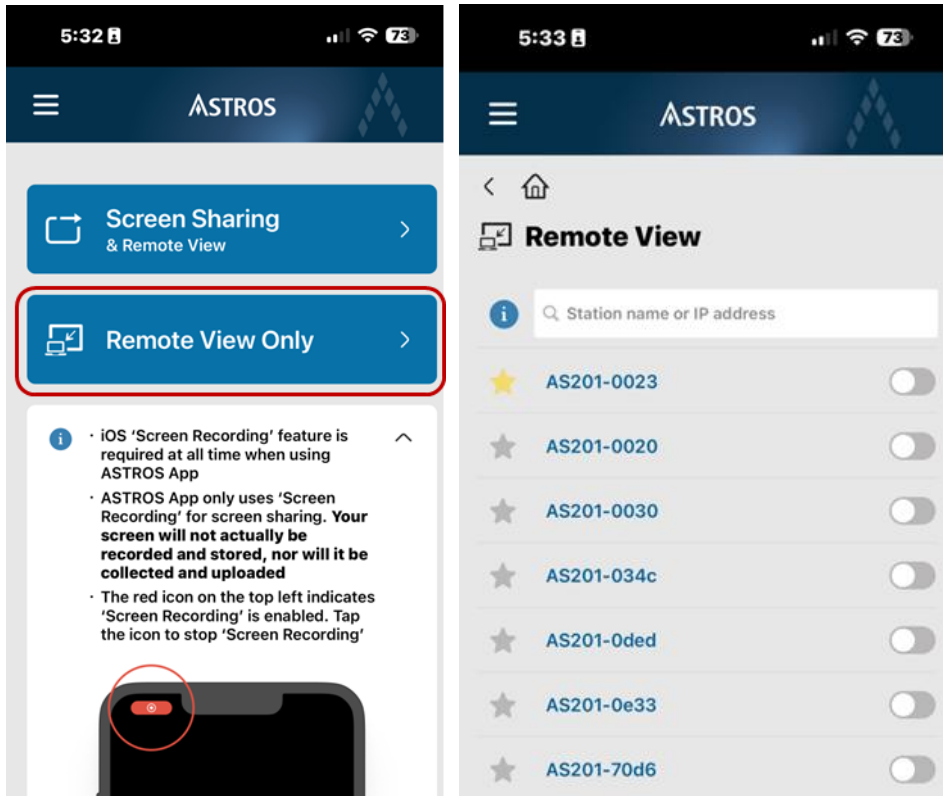
- 1 Play/Pause and Stop screen sharing
- 2 Entire screen sharing or split screen sharing
- 3 Station list and search bar
- 4 Favorite Stations
- 5 Change displayed name of your device shown on the main screen



ASTROS App Android (left) and iOS/iPadOS(right) interface

- ✧ For Android, please click Start now to Start recording or Casting with ASTROS App when using ASTROS App
- ✧ For iOS/iPadOS, “Screen Sharing & Remote View” requires “ Screen Broadcast”. Click “Screen Sharing & Remote View”, allow ASTROS App to access Local Network when using ASTROS App and click Start Broadcast.

“Remote View Only”allows users who only wants to view the content of main screen on their devices.



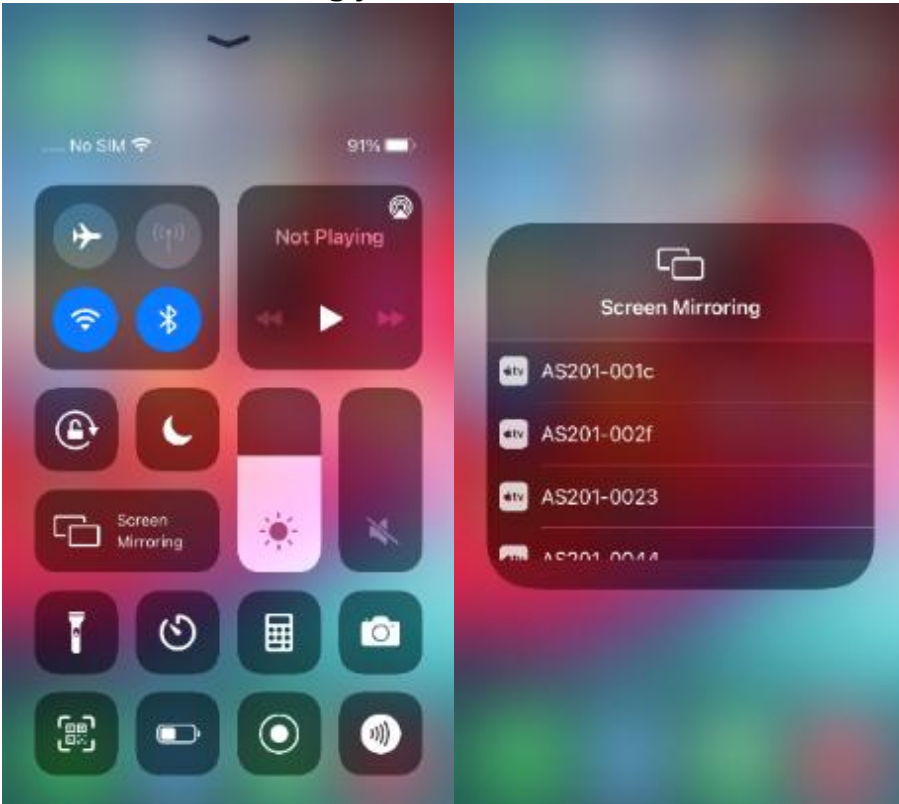
ASTROS iOS/iPadOS Remote View Only interface

6 Screen Sharing with AirPlay and Google Cast

ASTROS Station supports native protocols including AirPlay and Google Cast sharing.

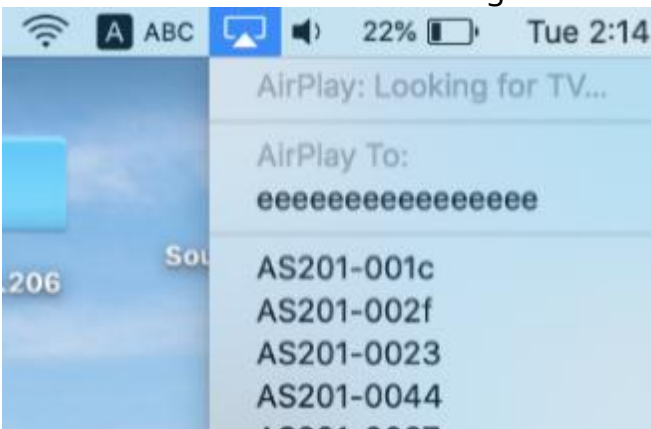
6.1 AirPlay

iPhone: Open Control Center, click Screen Mirroring and select targeted ASTROS Station to start sharing your screen



Airplay-iPhone

macOS: click  and select targeted ASTROS Station to start sharing your screen

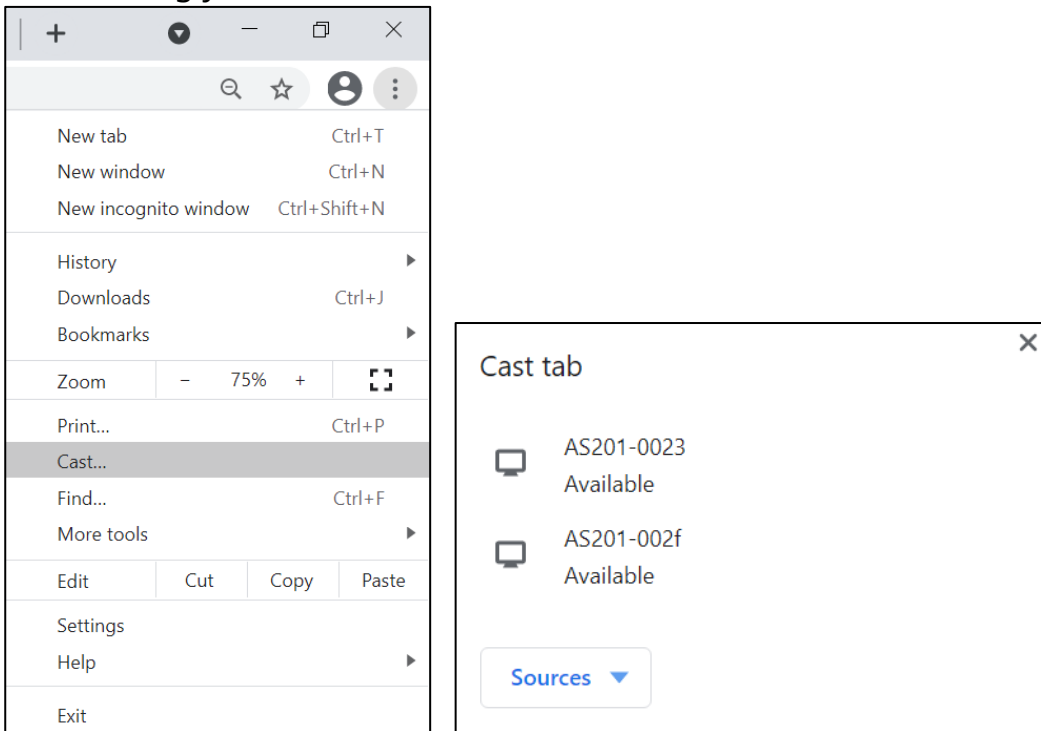


Airplay-macOS

✧ If required, please type in login code to start sharing (AirPlay)

6.2 Google Cast

Click “Cast” on setting of Chrome browser, and select targeted ASTROS Station to start sharing your screen

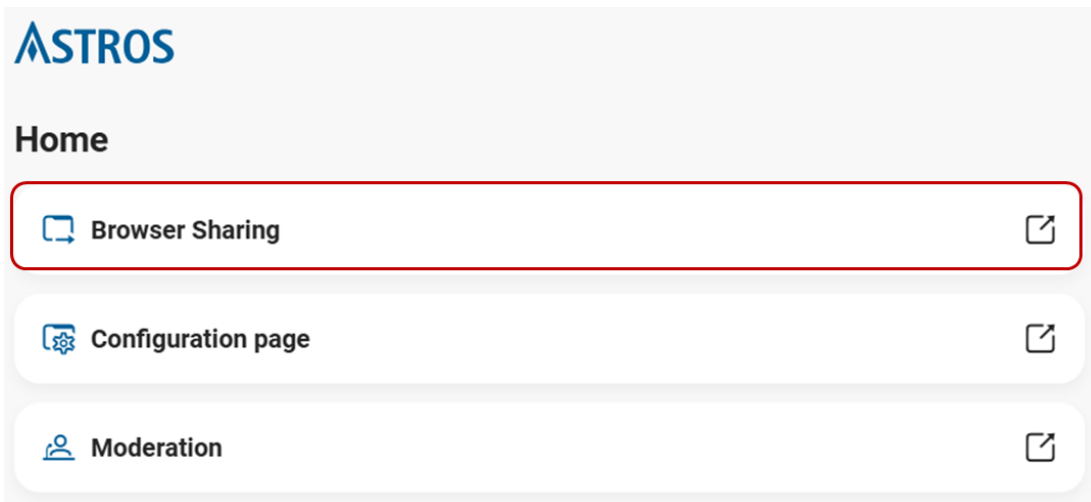


Google Cast- Chrome browser

- ✧ Your personal device needs to be on the same network as the ASTROS Station to screen sharing with AirPlay and Google Cast

7 Screen Sharing with Browser (Browser Sharing)

7.1 Access ASTROS Configuration page


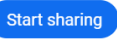


ASTROS Station Configuration page – Browser Sharing

- 1 Prepare a laptop with web browser capability
- 2 Make sure your laptop and the ASTROS Station are connected to the same network.
- 3 On the Standby Screen, find ASTROS Station’s IP address on the information panel.
- 4 Type in IP or <https://Station name> in a web browser.
The default Configuration page IP address is 192.168.120.11 if the Ethernet cable is not connected to the ASTROS Station.
✦ **Support Browser: Google Chrome 79+, Microsoft Edge 88+**

7.2 Start the Browser Sharing

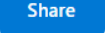
Steps

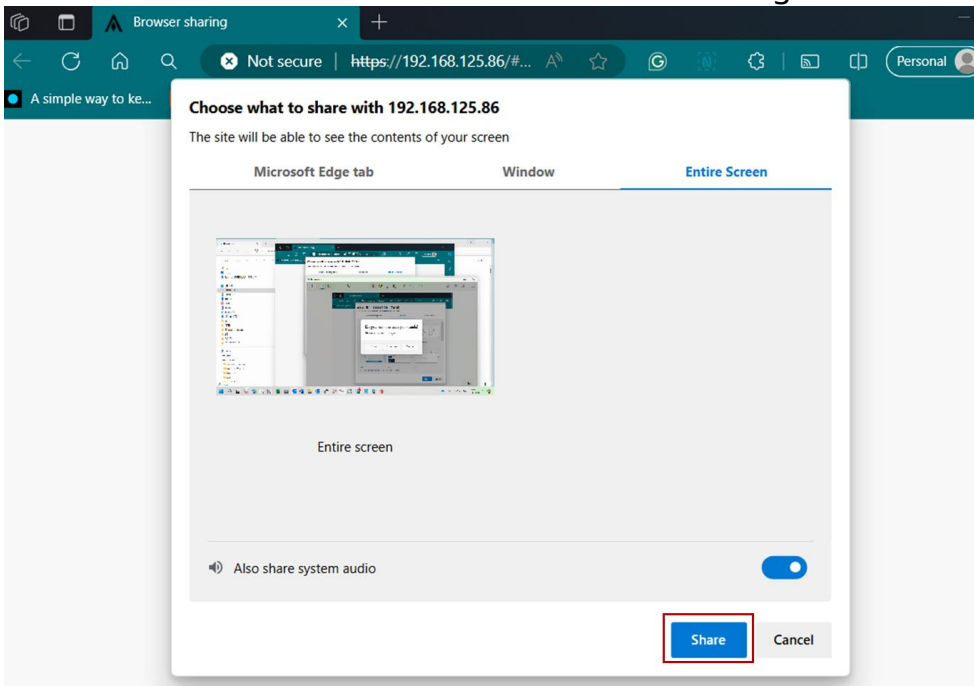
- 1 Click “Open new tab button”  and will lead to a new tab on your browser for Browser sharing
- 2 Type in “Display name” and “Login code” (if login code is enabled) and click “Start sharing button” 
✦ **Default Display name is BrowserSharing; Up to 20 characters, including Unicode and alphabet**
✦ **Find Login code on Information Panel if Login code is enabled**
- 3 Choose what to share from the options of Entire Screen, Window or Chrome / Edge Tab
Entire Screen: share your entire screen

Window : choose to share only a specific application window or the entire screen

Chrome / Edge Tab : share only a specific tab on your Browser

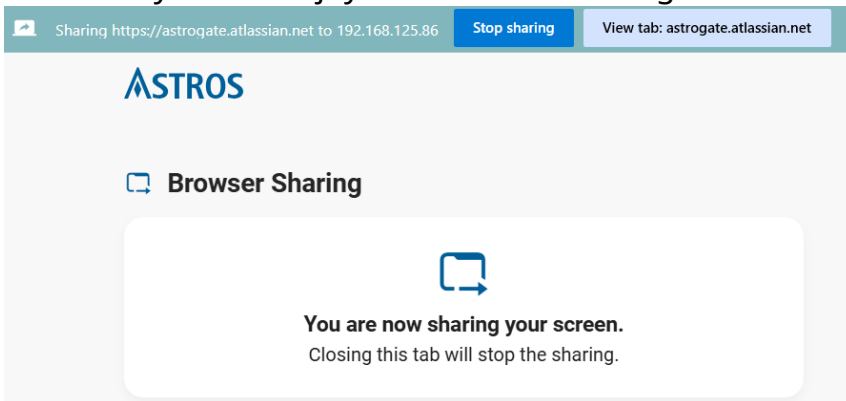
✦ Only Entire Screen and Chrome / Edge Tab can share system audio

4 Click “Share button”  to start sharing



Browser Sharing - Choose what to share

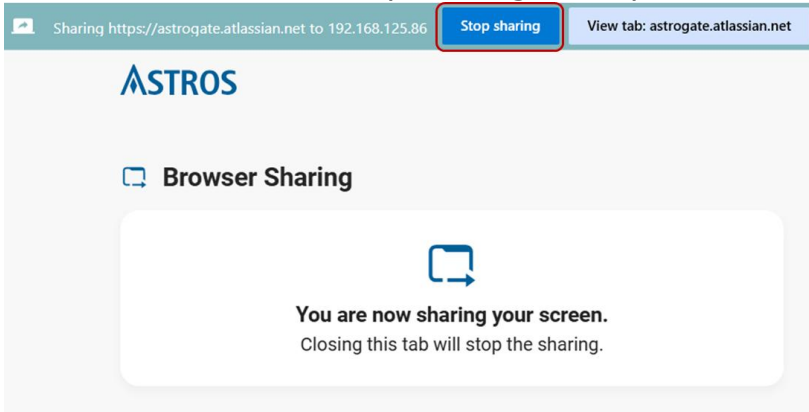
5 Now you can enjoy the Browser Sharing



Browser Sharing – You are now sharing your screen

7.3 Stop the Browser Sharing

Close the tab or click “Stop sharing” to stop

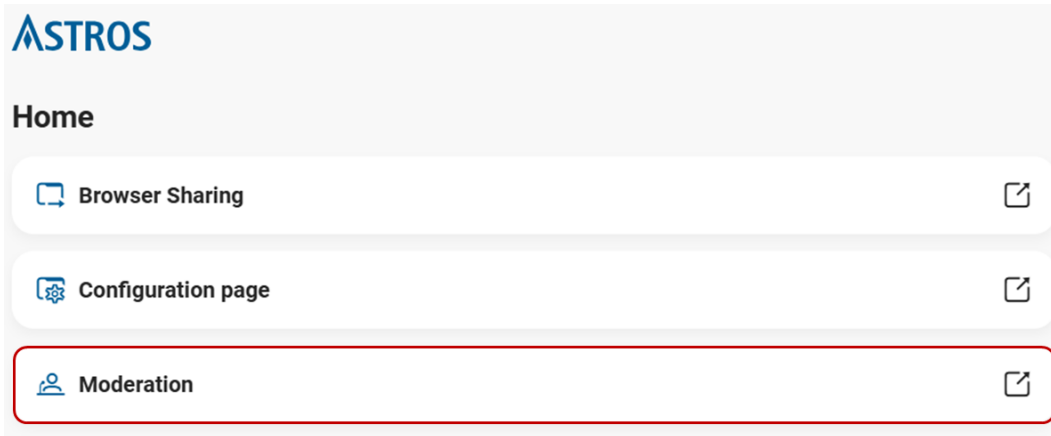


Browser Sharing - Stop sharing

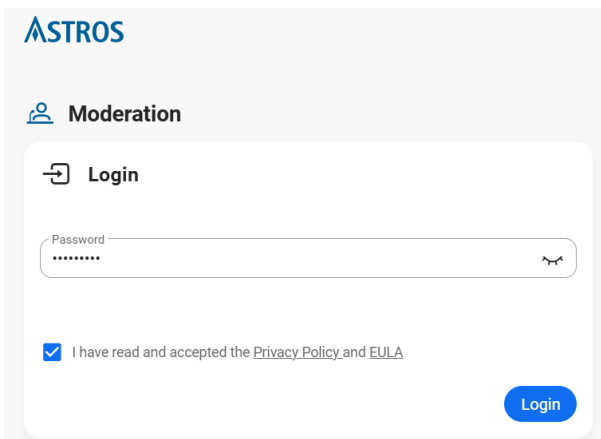
8 Web Moderation mode

✦ Available on AS-201


8.1 Log-in page



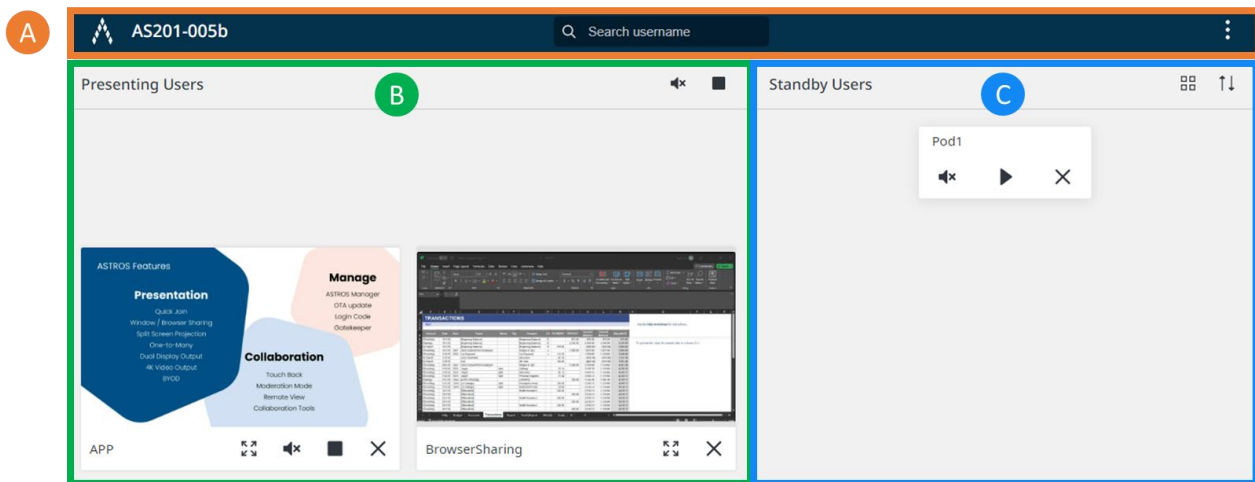
Log-in page of Moderation Mode



Log-in page of Moderation Mode

- 1 Go to the Landing page and click [Open in new tab]button 
- 2 Enter the password
- 3 Accept EULA and Privacy Policy and click [Login]

8.2 Control panel



Web Moderation Mode – Control panel

A Top Bar

Station name

AS201-005b

Search Bar

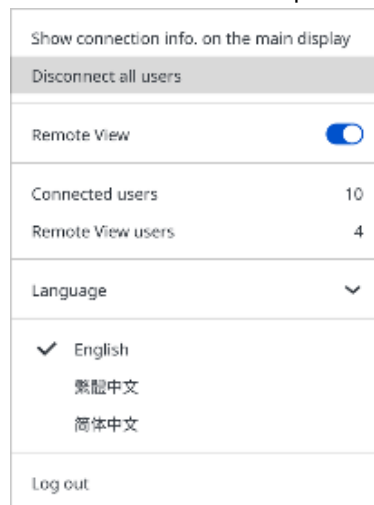
Search username

Setting list

Show the connected Station which is moderated

Search the name of Presenting and Standby User

Click the icon  to expand the collapse panel



Show connection info. On the main display

Show the info bar on the projection screen, would disappear few seconds

Disconnect all users

Click to disconnect all connected users

Remote View

Enable / disable Remote View

Connected users

The number of users currently connected to this ASTROS Station

Remote View users

The number of users who are currently viewing the main screen




Language

Language selection

Log out

Log out Web Moderation control panel

B **Projecting User**


Show the projecting users, could mute  / unmute  and stop  all the users on the control panels.

C **Standby User**

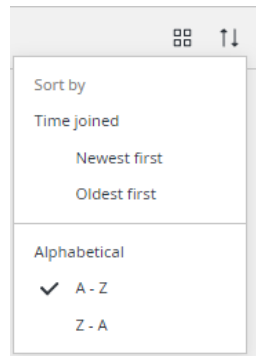
Show the standby users

Grid view  /List view 

Click to switch the view mode : Grid view to display the thumbnails.

Sorting list 

Sort the Station' s name

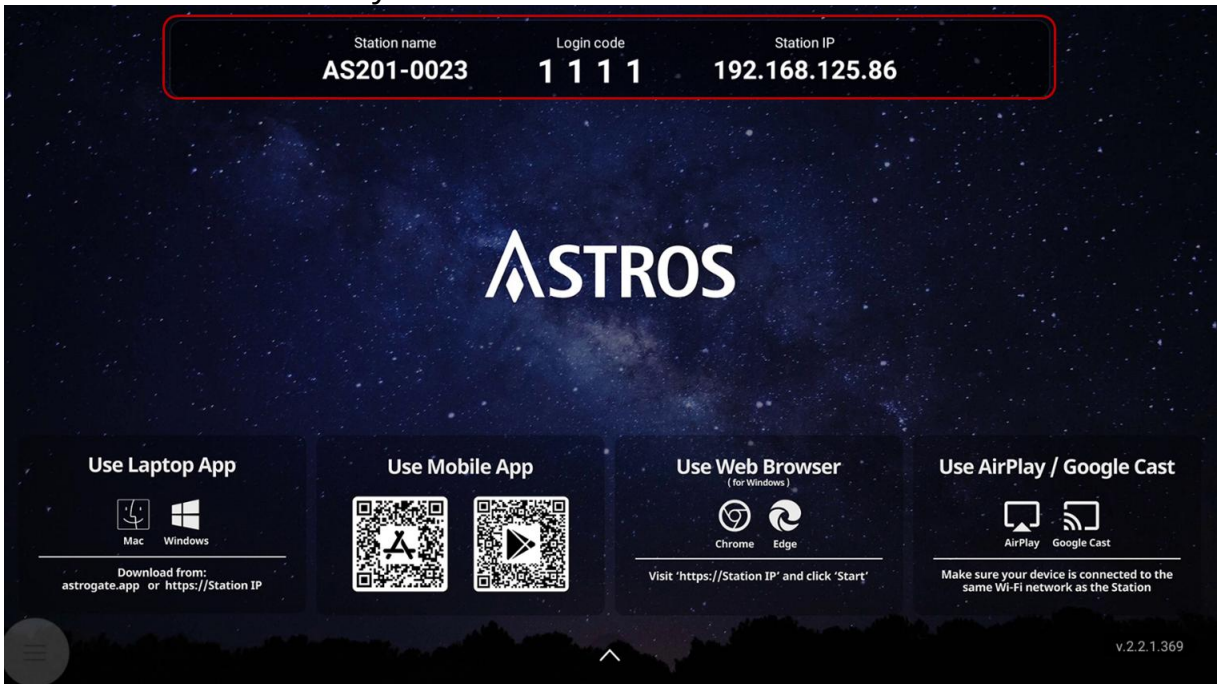


- ✧ The control panel would refresh automatically according to the changes made by moderator
- ✧ ASTROS App for iOS / Android doesn't support thumbnails.
- ✧ AirPlay, Google Cast, and Browser Sharing cannot be muted / unmuted or stopped individually,

9 The Main Screen features and introduction

9.1 Information Panel

- a. Information Panel is the area where you can find the name, IP address and login code of this ASTROS Station. Information Panel will always be on the top side of the Standby Screen.

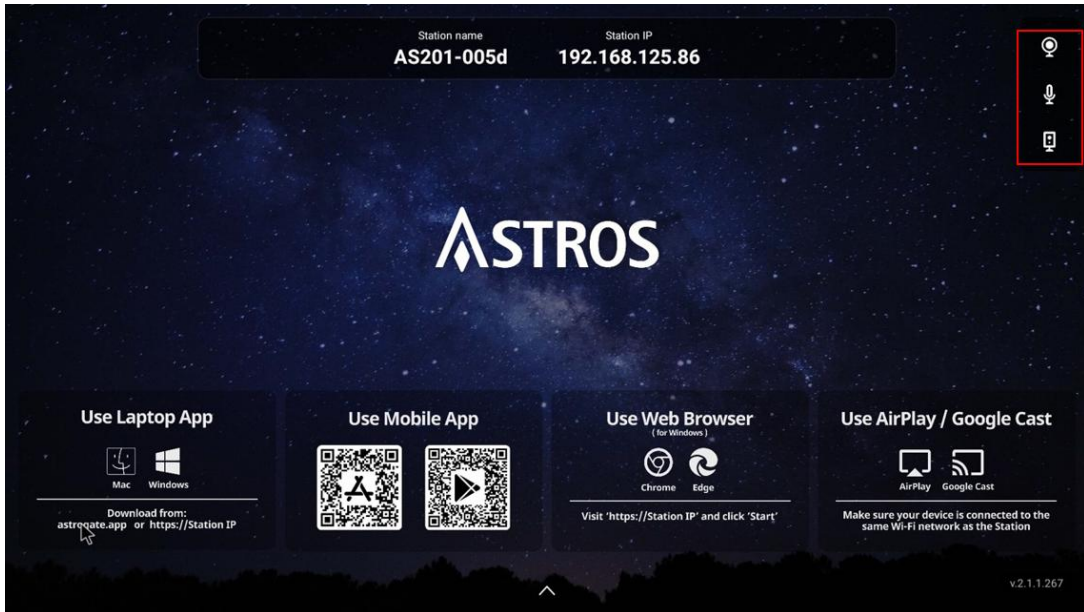


Information Panel (top side)




Station name	The name of this ASTROS Station
Station IP	The current IP address of this ASTROS Station
Login code	The login code of this ASTROS Station

- b. Wireless video conferencing- When attaching the video conferencing devices to the Station, supported functions will display on the upper right corner of the main screen.

✦ Available on AS-201

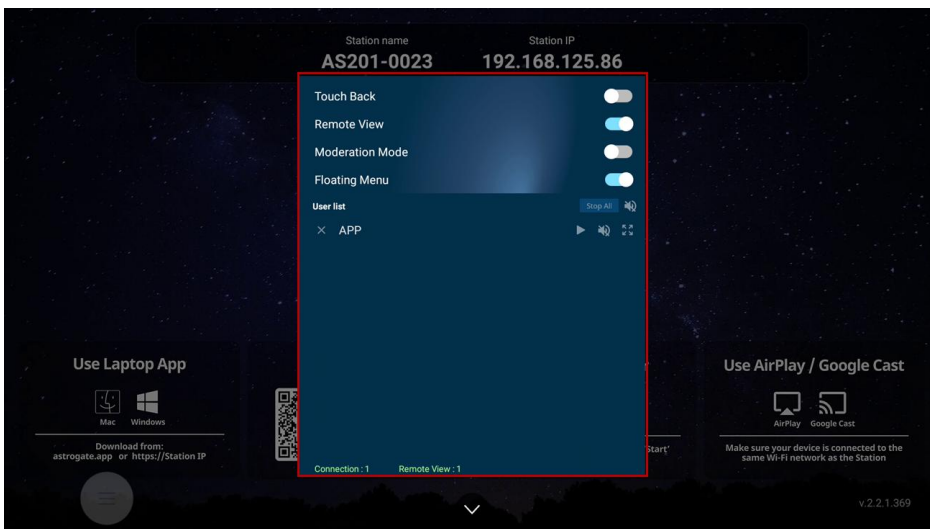


Main screen – video conferencing icons






-  Camera
-  Microphone
-  Speaker

9.2 Control Panel

Control Panel allows you to quickly access settings and manage contents on the main screen.



Control Panel (red frame marked)

Control Panel switch		Control Panel switch will always appear at the bottom of the main screen if a touch display or a mouse is connected to the ASTROS Station. Tap once to expand the Control Panel; tap any other place to collapse the Control Panel.
Touch back		When Touch back function is enabled and a touch display is connected to the Station, a user can operate a touch-supported device remotely from a touch display.
Remote View		When enabled, connected users can view the main screen from their own device with ASTROS App.
Moderation mode		Enabling Moderation Mode on the ASTROS to allow the moderator to control what is being displayed to the main screen and grant the moderator permission to disconnect a user from a session. When Moderation Mode is enabled, ASTROS Station only accept screen sharing from the ASTROS App. When Moderation Mode is enabled, users can still connect to the ASTROS Station.
Floating menu		Disable to hide the Floating menu
User list		On the User List, connected users will be displayed. When Moderation Mode is enabled, you can control users' screen sharing including play, stop, pause, mute, unmute, and disconnect.
Stop all/ Mute all button		Moderation mode enabled: Tap stop all button will force all current screen sharing to stop; the main screen will return to Standby Screen. Tap mute all button once to mute all screen sharing; press again to unmute all screen sharing. Moderation mode disabled: Stop all button and mute all button are disabled.
Connected user		Moderation mode enabled: You can control connected users' screen sharing including stop, mute, full screen, etc. Moderation mode disabled: screen sharing control disabled.
Disconnect button		Press to disconnect the user from the ASTROS Station.
User name		The displayed name of the user. Press the area to stop or start screen sharing the user's device screen.
Mute button		Press the button to mute or unmute the user's screen sharing.
Full screen button		Press the button to make the user's screen sharing full screen; press again to resume previous content arrangement.
Connection (green string)		The number of users currently connected to this ASTROS Station.
Remote View (green string)		The number of users currently viewing the main screen from their own device with the Remote View feature.

9.3 Manage main screen content' s layout

Auto layout

The shared contents will be automatically arranged by join order.

✧ AS-101 supports up to 2 contents simultaneously on screen; AS-201 supports up to 4.

Manual layout

When more than one contents are shared to the main screen, with a mouse or an interactive display connected, you can rearrange the layout of the contents by dragging a content to the desired corners.

✧ To use this function, please disable Touch Back function on the Control Panel

9.4 Floating Menu and Collaboration Features

✧ Available on AS-201

Floating Menu

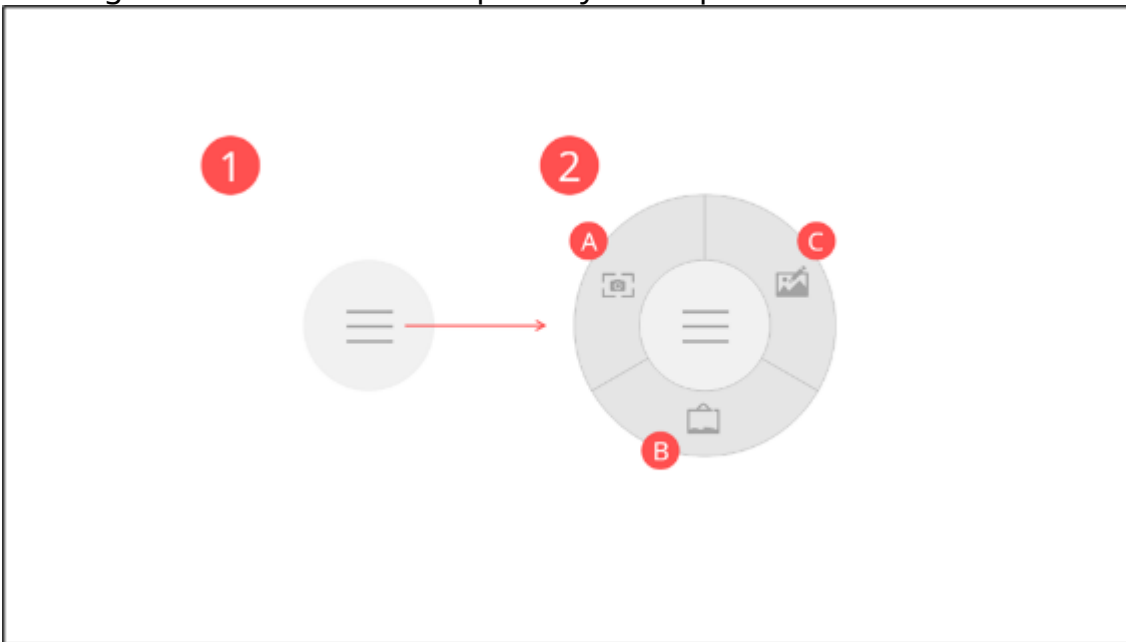
Floating Menu allows users to quickly access Whiteboard, Annotation and Screen Capture features.

Floating Menu will be automatically enabled if a touch display or a mouse is connected to the ASTROS Station.

Users can drag and move the Floating Menu to a desired location.

To hide the Floating Menu, please refer to 9.2 > *Floating Menu*

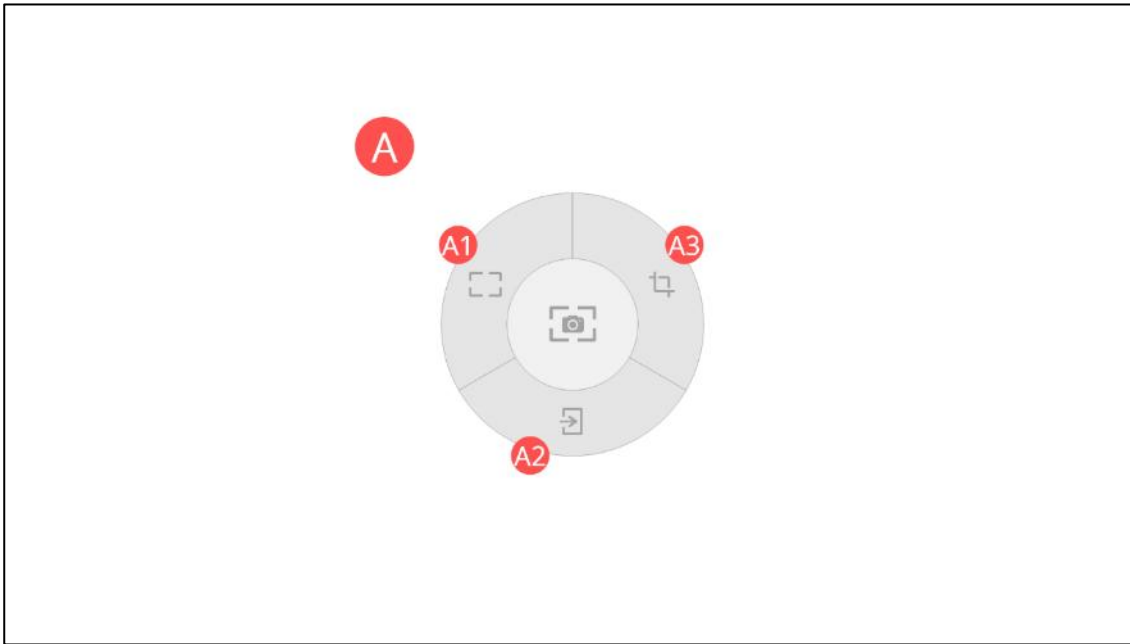
Floating Menu will fade to transparency if no operation is made for 15 seconds.



Floating Menu

- | | | |
|---|--------------------------|---|
| 1 | Floating Menu idle state | Press the menu icon in the middle to expand the Floating Menu; press again to collapse. |
| 2 | Floating menu expanded | Access collaboration features by pressing corresponding icons. |
| A | Screen Capture | See Screen Capture introduction below |
| B | Annotation | See Annotation introduction below |
| C | Whiteboard | See Whiteboard introduction below |

Screen Capture



Screen Capture menu

- A** Screen Capture menu
 - A1** Capture the entire screen Capture the entire screen then choose to save the capture or import to Whiteboard for further editing.
 - A2** Exit Exit to previous menu
 - A3** Capture a custom area Select a custom area to capture then choose to save the capture or import to Whiteboard for further editing
- ✧ Regarding saving options, please see [Save Option] below

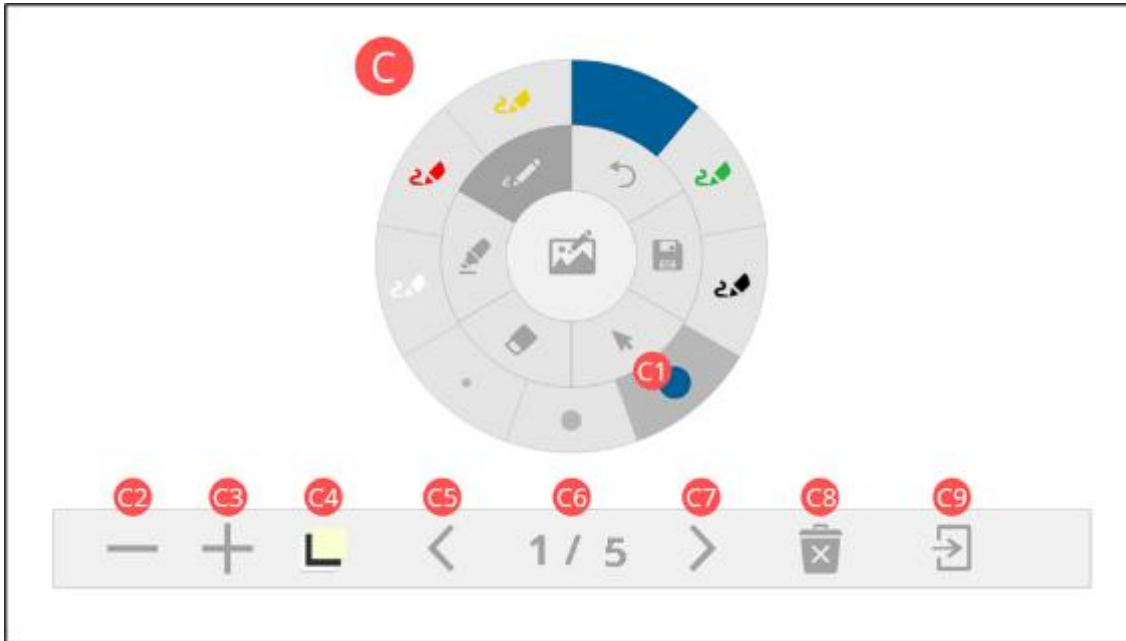
Annotation



Annotation menu

- | | | |
|-----------|-----------------|--|
| B | Annotation menu | |
| B1 | Pencil | Select to draw solid lines. Select from 3 thickness and 6 colors. |
| B2 | Highlighter | Select to draw transparent lines. Select from 2 thickness and 4 colors. |
| B3 | Eraser | Select from 3 thickness or press the sweeper icon to clear all. |
| B4 | Exit | Exit to previous menu |
| B5 | Save | Capture the entire main screen including the annotated contents then save or import to Whiteboard for further editing. |
| B6 | Undo | Undo up to 10 steps. |

Whiteboard



Whiteboard menu

- | | | |
|-----------|--------------------------|--|
| C | Whiteboard menu | |
| C1 | Select | |
| C2 | Delete page | Delete current whiteboard page. |
| C3 | Add page | Add one whiteboard page. Your view will be switched to the newly added page. |
| C4 | Select background | Select background for the current whiteboard page. |
| C5 | Previous page | Go to the previous whiteboard page. |
| C6 | Current page/ Total page | Maximum to 5 pages of total |
| C7 | Next page | Go to the next whiteboard page. |
| C8 | Discard all pages | Delete all whiteboard pages. |
| C9 | Exit | Quit whiteboard and exit to previous menu. |

Save Option

When using Screen Capture, Annotation or Whiteboard, you can use the built-in save function to save your current work



Save interface

Format	By selecting <i>image</i> your work will be saved as .png format. In Whiteboard, all whiteboard pages will be compressed into one .zip file. By selecting <i>PDF</i> , your work will be saved as .pdf format that contains all whiteboard pages.
Save to	Choose save to USB drive or Local drive save to USB drive only available when USB drive plugged
Cancel	Exit Save option menu
Save	By clicking Save, a QR code displayed on the main screen, you can download the saved work by scanning the QR code .



	Your personal device needs to be on the same network as the ASTROS Station to successfully scan QR code and download.
Paste into whiteboard	In Screen Capture and Annotation, you may choose to paste your work to Whiteboard for further editing.

10 Compliance Statements

10.1 Federal Communications Commission (FCC) Statement

This device has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the device and receiver.
- Connect the device into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/display technician for help.

Notice: Shielded cables

All connections to other computing devices must be made using shielded cables to maintain compliance with FCC regulations.

Caution

Changes or modifications not expressly approved by the manufacturer could void the user's authority, which is granted by the Federal Communications Commission, to operate this device.

Operation Conditions

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference and
2. This device must accept any interference received, including interference that may cause undesired operation.

Notice: Canadian users

This Class B digital apparatus complies with Canadian ICES-003.

Remarque l'intention des utilisateurs canadiens

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

10.2 FCC RF Radiation Exposure Statement

1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. (For only one antenna)
2. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

10.3 NCC Warning Statement

根據 NCC LP0002 低功率射頻器材技術規範_章節 3.8.2：

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

應避免影響附近雷達系統之操作。

天線為高增益指向性只得應用於固定式點對點系統。

10.4 Warning

- 1 When AS-101 or AS-201 is running in PoE mode and connected to USB devices such as touch panel, mouse or USB drive, please note all USB ports are not allowed to be connected
- 2 About the RTC battery inside the ASTROS Station:
 - The RTC battery is forbidden to charge, decompose, heat, or throw into fire.
 - Do not ingest or swallow the RTC battery, or it can cause severe internal burns in just 2 hours and can lead to death.
 - Keep the RTC battery away from children.
- 3 Please use in accordance with the product manual to avoid damage to the product and affecting the warranty.
- 4 Product problems caused by the following improper use will not be covered by the warranty:
 - Disassemble or repair the product by yourself;
 - Disassemble or replace the RTC battery in the product;
 - Make the system short-circuit by spraying liquid improperly on the system;
 - Use equipment that is not in the product packing, such as power adapter or antennas, etc.

If you have any other questions, please contact our customer support or distributor, and send the product for repair if necessary.

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10.6 Disclaimer

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10.8 Declaration of conformity

EMC Directive 2014/30/EC (including amendments)

10.9 WEEE

Disposal instructions

Do not throw this electronic device into the trash when discarding. To minimize pollution and ensure utmost protection of the global environment, please recycle it.