ASTROS Station User Manual

AS-201 / AS-101

V4.0



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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



Red lightSleep mode.Blue lightPower on.

Blinking red and blue light Firmware updating.

Note: USB devices support on ASTROS Station – Mouse / Touch panel / USB flash drive

2.3 Specification

Compatible OS	Windows 10+ macOS 12.5+(BYOM 13.5+)	Android 11.0+ Chrome OS Chrome 84.0.4147.110 +	
Support protocol	iOS 14+ BeamOp, AirPlay, Google Cast, Browser Sharing, Miracast		
Video output	HDMI / VGA		
Output	HDMI only: 4K@60Hz		
resolution	HDMI + VGA dual output: 1080)p@60Hz	
Audio output	HDMI & Audio Jack 3.5mm	- -	
Wi-Fi Band	Switchable dual band 2.4GHZ	/ 5GHz (DFS channels not supported)	
Wireless	IEEE 802.11ac		
transmission			
protocol			
Authentication	AP mode: WPA2-PSK		
	Station mode: WEP, WPA, WPA	2, 802.1x EAP	
Ethernet	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 availabl	e 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	4° F)	
	Storage: -10° – 70° C (14° – 158	° F)	
Humidity	Operating: 20 – 80% non-cond	ensing	
	Storage: 10 – 90% non-conden	sing	
Certificate	FCC, CE, NCC, BSMI		
Warranty	3 years		

2.4 Port used by ASTROS Station

Service	Туре	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 The Landing page

Astr	ROS	
Home		
🗔 Br	rowser Sharing	Ľ
🔯 Co	ge stall-free) © English Privacy Policy EULA Copyright © 2023 ASTROGATE Inc. All rights reserved.	♪
<u>ළ</u> Mo	oderation	♪
Downloa	ad	
\Lambda Ар	pplications	
-	Windows	Ŧ
4	Windows (Install-free)	Ţ
Ţ.	acos	Ŧ
💧 Qu	uick Join	Ŧ
	€29 English Privacy Policy EULA Copyright © 2023 ASTROGATE Inc. All rights reserved.	

ASTROS Station Landing page - First login

How to go to Landing 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.

Home

Browser Sharing	Click 🖆 to open a new tab and click "Start sharing"
Configuration page	Click \triangle to set the password upon first login. After the password is set,
	click the 🏼 to log into the Configuration page.
Moderation	Click \triangle to set the password upon first login. After the password is set, click the \Box to log into the Moderation.

Download

You could download the ASTROS app at this section

ASTROS App for Windows: Click $\stackrel{\downarrow}{\smile}$ to download, an installation-required version for frequent users on Windows.

ASTROS App for Windows (Install-free): Click $\stackrel{\downarrow}{\smile}$ to download, a green version for guests to use.

ASTROS App for Mac: Click $\stackrel{\downarrow}{\smile}$ to download, 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 User could change the language of the Configuration page at the bottom of the webpage.

4.2 Access ASTROS Configuration page

- 1. 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.

Astros				
Home				
Browser Sharing	С			
Configuration page	♪			
A Moderation	۵			

4.3 General

ASTROS	°∞ General	
ogo General	Station name	Display on standby screen
∬, HDMI & VGA () Date & Time	AS201-0023	
 Wi-Fi Ethernet Update 	Login code Random No code Fixed	
⑦ Password ਨੂੰ Pod Pairing	Station IP	Display on standby screen
S Mirroring Protocols	Allow Remote View	
APP BYOM Power Saving Remote Access	Background image The background image must meet the following format: • Image format: png or jpeg • Width/height ratio should be between 1.5 to 2.0	
() Reboot 금 Logout		
		Ţ
	Ĺ Ĺ	Ţ
	Language	
	e-Bao	

ASTROS Station Configuration page – General

Station name	The displayed name of 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. Station name is optionable to display in the information bar of the standby screen. Default name: AS101-xxxx / AS201-xxxx
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
Station IP	Optionable to display in the information bar of the standby screen

Background image	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. *There are two built-in images (unremovable) with the first one selected as default.
Language	Select the system language for this ASTROS Station

4.4 HDMI & VGA

Astros	ហ្ HDMI & VGA	
og□ General	Video output	
អ្រ HDMI & VGA	HDMI O HDMI and VGA (up to FHD)	
🗇 Date & Time	Output resolution: 1920x1080	
♀ Wi-Fi		
W Ethernet	Resolution	
() Update	1920x1080	~
Password		
65 Pod Pairing		
ි් Mirroring Protocols	Always output audio from HDMI first	
System		
Ш APP BYOM		
Dower Saving		
S Remote Access		
(¹) Reboot		
⊡ Logout		

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

۸s	TROS	Image: Control of the second s	
<u>ନ୍</u> ଦ ଜ	General HDMI & VGA	2025-02-24 2:47 PM	
6	Date & Time	Set time automatically	
((;•	Wi-Fi	24 hour format	
	Ethernet	24 Hour format	
¢	Update	Time server	
0	Password	nto nict in	
8	Pod Pairing		
5	Mirroring Protocols		
۲	System	Time zone	
888	APP BYOM	GMT+8:00, Taipei	~
Î	Power Saving		
X	Remote Access	Daily reboot	
¢	Reboot	2:00 AM	
G	Logout		

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 into the environment. How an administrator or a user accesses 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.
- \diamond 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:

٨s	TROS	হু Wi-Fi	
<u>م</u>	General	Wi-Fi MAC address	
ហ	HDMI & VGA	5c:f3:70:b1:df:3f	
G	Date & Time	Changing network settings might cause configuration page to disconnect. Reconnect configuration page with new IP if needed.	
Ŷ	Wi-Fi	o	
	Ethernet	ASTROS as AP ASTROS connects to another AP	
¢	Update	ASTROS WI-Fi off	
0	Password		
÷	Pod Pairing	45201-0023	
5	Mirroring Protocols	AGEO FORES	
۵	System	Hide SSID	
	APP BYOM	Security	
İ	Power Saving	None WPA2	
Ņ	Remote Access		
¢	Reboot	Band	
G	Logout	2.4G	
		Network mode	
		NAT	
		O Bridge	
		Gatekeeper	
		Allow all	
		Internet only Block all	

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

 \diamond ~ To switch to a different Wi-Fi mode, please configure it 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 joins 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, navigate to [Ethernet]
- 3 Choose [DHCP] or [Static]
- 4 If you choose [static], please fill in valid IP information. All information should be in IPv4 format.

5 Click the [Apply button]

٨s	TROS	Ethernet Apply
0,0	General	
Δ	General	Ethernet MAC address
ហ	HDMI & VGA	dc:4a:9e:70:00:23
tə	Date & Time	Changing network settings might cause configuration page to disconnect. Reconnect configuration page with new IP if needed.
(([+	Wi-Fi	Obtain IP address
	Ethernet	O DHCP () Static
¢	Update	
9	Password	(19 addrass 192.168.126.64
65	Pod Pairing	Subnet mask
5	Mirroring Protocols	255.255.254.0
	System	(Gatoway 192.168.125.1
<u>888</u>	АРР ВҮОМ	CDNS 1
	Power Saving	168.95.1.1
5<	Remote Access	0082 8.8.8
¢	Reboot	
G→	Logout	

ASTROS Station Ethernet connected and static IP configuration

You may set the Wi-Fi option from the station to your device with the following steps:

- 1. On the ASTROS configuration page, go to [Wi-Fi]
- 2. 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)

ङ्र Wi-Fi	
Wi-Fi MAC address 5c:f3:70:b1:df:3f	
Changing network settings might cause configuration page to disconnect. Reconnect configuration page with new IP if needed.	
 ASTROS as AP ASTROS connects to another AP ASTROS Wi-Fi off 	

ASTROS Station joins organization LAN via Ethernet cable

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	Wi-Fi Apply
o≏ General	WI-FI MAC address
អ្វែ HDMI & VGA	5c:f3:70:b1:df:3f
🗟 Date & Time	Changing network settings might cause configuration page to disconnect. Reconnect configuration page with new IP if needed.
হি Wi-Fi	
Ethernet	ASTROS as AP ASTROS connects to another AP
() Update	ASTROS WI-Fi off
Password	
60 Pod Pairing	(d, Scan) (+ Add
ක්ප Mirroring Protocols	Astrogate_Guest
System	- A2002MU 2.4G
🔠 АРР ВУОМ	
Dower Saving	▼ A3002MU_5G
⋉ Remote Access	
(İ) Reboot	Amy
⊖ Logout	▼ Amy_5G

ASTROS Station Configuration page- Wi-Fi 2

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

ASTROS	Wi-Fi Apply
았 General 어 HDMI & VGA ㅎ Date & Time	Wi-Fi MAC address 5c:f3:70:b1:df:3f Changing network settings might cause configuration page to disconnect. Reconnect configuration page with new IP if needed.
후 Wi-Fi	0.477700.40
Ethernet	ASTROS as AP ASTROS connects to another AP
() Update	ASTROS WI-Fi off
Password	
S Pod Pairing	(2, Scan) (+ Add
ක් Mirroring Protocols	Astrogate_Guest
System	- A3002MU 2.4G
Ш АРР ВУОМ	
Power Saving	◆ A3002MU_5G
Remote Access	
(İ) Reboot	Amy_5G Â
G→ Logout	▼ arashi_48_2G

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

5 Click the [Apply button]

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

- 6 Remove the Ethernet cable from ASTROS Station
- Users or administrators must connect their device to the organization LAN to access ASTROS Station.

♦ Ethernet cable <u>MUST be removed after the above setup</u> for Type 2-2 to take effect.

4.7 Update

ASTROS	¢	Update		
o□ General		Model name AS-201		
ស្រា HDMI & VGA		Version 2.2.1.428(20250217)	Read all release notes	
🗇 Date & Time				
🄶 Wi-Fi		OTA update	C C Check for update	
Ethernet				
() Update		Manual update		
Password		Select firmware file ('.asg' format).		
⊖ Pod Pairing		Select firmware file)	
ි Mirroring Protocols			Upgrade	
System				
🔠 АРР ВУОМ				
Power Saving				
Remote Access				
(İ) Reboot				
C→ Logout				
Model name	е	Model name of the AST	ROS Station	
Version nun	nber	Displays firmware versi	on of the ASTROS Station; Access	to read all release
		note.		
OTA update		Check for update via O	ver-the-air (OTA) by clicking "Chec	k for update" to
		check the latest firmwa	re version. If new version is found	l, click "Upgrade",
		ASTROS Station will sta	rt the firmware upgrade process v	vhen download is
		complete.		
		*The Configuration page	e will not be accessible until the upgi	rade process is
		completed.		
Manual upd	ate	Download the latest AS	TROS Station firmware at	
		https://www.astrogate	.com/download/	
		Click the blank column	to choose the .asg file and click th	e "Upgrade"
		button to start the upg	rade process.	
		*The file extension of AS	TROS Station firmware is .asg.	

4.8 Password

ASTROS	⑦ Password	
on General	Configuration page password	
អ្វែ HDMI & VGA	Current password	~
🗟 Date & Time		
🤶 Wi-Fi	New password	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Ethernet	Confirm new password	·~*
() Update		
Password		Apply
Go Pod Pairing	Moderation password	
S Mirroring Protocols		
System	Current password	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
🖾 АРР ВУОМ	New password	* , ,
Power Saving		
Remote Access	Confirm new password	~~
(^j) Reboot		Apply
G→ Logout		

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

4.9 Pod Pairing

You may pair the Pod to Other wireless access point with the following steps:

- 1 On the ASTROS Configuration page, navigate to [Pod Pairing]
- 2 Choose [Other wireless access point]
- 3 Fill in wireless access point information.
- 4 Click the [Apply button]

ASTROS	SPOd Pairing Apply
oo General	Pair the Pod to:
ାମୁ HDMI & VGA	This Station Other wireless access point
⊡ Date & Time	Manual input
Ethernet	SSID of wireless access point
Update	(None V)
Password	
SPod Pairing	Saved input
ක් Mirroring Protocols	192.168.126.64
log System	SSID of wireless access point Astrogate_Guest
APP BYOM	Security WPA2
Power Saving	
Remote Access	
(^I) Reboot	
G→ Logout	

4.10 Mirroring Protocols

Astros	Signature Mirroring Protocols	
ୁଦ୍ଦ General	☐ AirPlay	
🗟 Date & Time		
╤ Wi-Fi■ Ethernet	Note: WI-Fi will be disabled once Miracast is enabled and Station is rebooted	
() Update		
Password S ^O Pod Pairing		
مع Mirroring Protocols		
System		
APP BYOM Power Saving Remote Access		
(┘) Reboot G• Logout		
AirPlay Google Cast Miracast	Enable the AirPlay feature of Station Enable the Google Cast feature of Station Enable the Miracast feature of Station	

4.11 System

Astros	System
General	System reset
អ្រី HDMI & VGA	All configurations will be reset to default.System reset will not roll back firmware version.
🗟 Date & Time	
	Debug logging
Ethernet	Enable this feature to log system information
() Update	
Password	Configuration file
ర్హం Pod Pairing	Import configuration file
ត្≝ Mirroring Protocols	Import
System	
🔤 APP BYOM	Export configuration file (Export
Power Saving	
Remote Access	
(^I) Reboot	
⊡ Logout	
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. Paproduce the issue step by step
	b. Reproduce the issue step by step.
	d. Provide the log file to our technical support
	ASTROS © System
	System reset System reset All configurations will be reset to default. System reset will not roll back firmware version. Debug logging Ethemet Update Password Pod Paining Configuration file Import configuration file
	(Import)
Configuration file	Import or export Configuration file for ASTROS Station

4.12 **APP BYOM**

∕¶\$	TROS	B APP BYOM
00	General	APP BYOM Activation
ហ	HDMI & VGA	You can start a 7-day trial by pressing the BYOM button in ASTROS App; or register a license key below for permanent use
ā	Date & Time	License key
([!-	Wi-Fi	
	Ethernet	Submit
¢	Update	
0	Password	
8	Pod Pairing	
5	Mirroring Protocols	
۲	System	
	АРР ВҮОМ	
	Power Saving	
Σζ	Remote Access	
ψ	Reboot	
G	Logout	
AP	P BYOM Activation	License key for APP BYOM

Please contact <u>Astrogate</u> for purchasing the license.

4.13 Power Saving

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

ASTROS Station turns off only the video and audio output. Users can still discover this ASTROS Station and connect.
In Sleep mode, you may set ASTROS Station to automatically enter Sleep
mode if no operation is made for a certain period.
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.

4.14 Remote Access

4.15 Reboot

Click this button to reboot ASTROS Station.

	Ethernet	DECI	
¢	Update	RES	▲ Reboot
9	Password	JZII	Are you sure you want to reboot? All users will be
00	Pod Pairing		disconnected.
5	Mirroring Protocols	_	Cancel Reboot
۲	System		
###	APP BYOM		
1	Power Saving		
X	Remote Access		
Φ	Reboot		

4.16 Logout

Click to log out the Configuration page

5 Screen Sharing with ASTROS App

5.1 Download ASTROS App

Windows and macOS

Visit <u>Astrogate website</u>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 <u>2.3 Specification</u>.



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.

	Astros	- ×
Station list		
AS201-005	ib	
★ AS201-005	ōd	
A S201-034	łc	
AS201-034	ŀf	

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 <u>Wi-Fi/Ethernet</u> for more information.

← Wi-Fi	
DI2F_MLO	
AS201-0079	l
AS201-034f	
DIRECT-a6-HP M111 LaserJet	
DIRECT-yc-AS201-005d	
More Wi-Fi settings	С
s [1], Focus 🖽 🗏 🗐 – –	+ 100
୦ ୦ 📤 😣 ENG 🛜 ସ× 🔳	10:11 AM

5.3 Operating ASTROS App

Station list

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

A	STROS		- ×
★ AS201-0023	r	Moderation of	on
n ∎			8 23
Station list			
★ AS-201-B1DF71			
🔶 AS201-003a			
🛧 4-ММММММММ	МММММ		
AS-201-B7DD81			

Station list on the ASTROS App

Search bar

You can use Search bar:

- 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

- 1. When you first connect to an ASTROS Station, click the "Play button" 💟 to start sharing your entire screen to the main screen.
- will freeze your projection on the 2. While sharing, click the "Pause button" last frame.

the ASTROS App will instantly stop sharing

3. When clicking the "Stop button" 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

to make your selection then click on the Play button to "Window Sharing button" share.

∻ During the Window Sharing, your screen sharing will freeze 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" El button to view the main screen with the ASTROS App.

Touch Back	
Remote View	
Moderation Mode	
Floating Menu	
User list	Stop All
× APP	■ ¥ Q 23

Enable Remote View on the Control Panel

*Or on the ASTROS Configuration page. Refer to <u>General</u> > Enable Allow Remote ViewOne-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" inext 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.

*Refer to <u>4.1 The Landing Page</u> > ASTROS App for Quick Join The Quick Join file can be renamed and dispatched to other computers.

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)

APP BYOM

Download and install APP BYOM driver



Download APP BYOM driver here.

About

1. Version and update

	Astros	-	
General	АРР ВУОМ	About	
ASTROS App in	nformation:		
Version: 2.2.0.	184 Version History		
Check update	✓ ASTROS App is up to date		

Check the 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.

APP BYOMClick the "APP BYOM" button 🖸 to use VC devices with the ASTROS App. Please wait until you see the icon turns green 🞑.





* When you connect to an ASTROS Station with VC devices, APP BYOM button will appear on the panel.

If no VC devices are connected, this button will not be displayed.

You can now use the BYOM function for 7 days trial.

*There is an expiration date displayed on ASTROS Configuration page. Refer to <u>4.12 APP</u> <u>BYOM</u>

BYOM button status table:



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: <u>www.astrogate.com/download</u>. Or [The Landing Page]> ASTROS App for Windows (Install-free)

♦ The 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:

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

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≡	Astros	*** *	≡	Astros	
*	AS201-0039 Connected		*	AS20-0030 Connected	
			Ē		Ň
Stati	ion list		1	Q Station name or IP address	
٩	Station name or IP address		*	AS201-0016	
*	AS201-1234		*	AS201-001c	
*	AS201-8888		*	AS201-001d	
*	AS201-5888		*	ММММ	
*	AS201-6666				
*	AS201-6888				
*	AS201-1788				
*	AS201-006f				

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, Google Cast and

Miracast

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

6.1 AirPlay

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



Airplay-iPhone



♦ 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

+ 0 -	o ×		
Q 🕁	8:		
New tab	Ctrl+T		
New window	Ctrl+N		
New incognito window Ctrl	+Shift+N		
History	►		
Downloads	Ctrl+J		
Bookmarks	•		×
Zoom – 75% +	53	Cast tab	
Print	Ctrl+P		
Cast		AS201-0023	
Find	Ctrl+F	Available	
More tools	•	AS201-002f	
Edit Cut Copy	/ Paste	Available	
Settings			
Help	•	Sources 🔻	
Exit			

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

6.3 Miracast

Click the Windows logo key + K on windows computers, then select the display you'd like to cast to from the list of available devices.

	÷	Cast III K					
	Available displays						
	Ū	Android TV Display					
	Ū	13zAS201-00ec Display					
	Ū	AS201-0024 Display					
	Ð	TestP2PFunctions Display					
	Ē	DESKTOP-GNMLP6F					
Vá	More	cast settings					

7 Screen Sharing with Browser (Browser Sharing)

7.1 Access ASTROS Configuration page

♦ Support Browser: Google Chrome 79+, Microsoft Edge 88+

ASTROS	
Home	
Browser Sharing	Ľ
🔯 Configuration page	C
A Moderation	C

ASTROS Station Configuration page Prepare a laptop with web browser capability

- 1 Make sure your laptop and the ASTROS Station are connected to the same network.
- 2 On the Standby Screen, find ASTROS Station's IP address on the information panel.
- 3 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.

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

ASTROS					
Home					
Browser Sharing					
Configuration page	C				
😤 Moderation	C				

Type in "Display name" and "Login code" (if login code is enabled) and click
 "Start sharing button" Start sharing

*Default Display name is Browser Sharing; 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	C	lick		"Sl	ha	re	b	ut	tc	n	"		21	are	-	to	st	ar	t s	ha	rir	ng						
Ô		A Bro	owser	sharir	ng				×	+	2																	-
\leftarrow	С	ഹ	Q		8	Not s	secu	ıre	ht	ltps:,	//192	2.16	8.12	5.86	/#				G			\$	0	<u>_</u>	¢	Pe	ersona	al 🧕
As	imple w	ay to ke		Cho The :	pose i site wi	what II be a Micro	t to able roso	shai to se ft Ed	re w ge ta	tith 1	192. ' attents	168. of ye	125 our s	.86 screet	n Windo	we				Enti	re Sc	reen						
				4) Als	o sha	are s	ysten	n aud	lio																		
			l																	Sha	re		Canco	el				

Browser Sharing - Choose what to share

Sharing https://astrogate.atlassian.net to 192.168.125.86
 Stop sharing
 View tab: astrogate.atlassian.net
 Conservation
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Browser Sharing – You are now sharing your screen

7.3 Stop the Browser Sharing

Close the tab or click "Stop sharing" to stop Sharing https://astrogate.atlassian.net to 192.168.125.86 Stop sharing View tab: astrogate.atlassian.net Commercial Stop Sharing Browser Sharing You are now sharing your screen. Closing this tab will stop the sharing.

Browser Sharing - Stop sharing

8 Web Moderation mode

♦ Available on AS-201

8.1 Log-in page

ASTROS	
Home	
Browser Sharing	Ľ
Configuration page	Ľ
<u>A</u> Moderation	Ľ

Log-in page of Moderation Mode

ASTROS	
🖄 Moderation	
- Đ Login	
Password	*
✓ I have read and accepted the <u>Privacy Policy</u> and <u>EULA</u>	
	Login

Log-in page of Moderation Mode

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

8.2 Control panel

AS201-005b	Qs	Search username				
Presenting Users	B	•(× 🔳 🤱	Standby Users	С		
			Pe	od1 (×)	×	
ASTROS Features Presentation	Manage AlfOS Monoger Off-spass					
manuska konservingen Oresto kansvingen Oresto ka						
APP	BrowserSharing	53 ×				

Web Moderation Mode – Control panel

A Top Bar								
Station name A AS201-005b	Show the connected Station w	hich is moderated						
Search Bar	Search the name of Presenting	g and Standby User						
Setting list	Click the icon 🔋 to expand the collapse panel							
-	Show connection info. on the main display Disconnect all users							
	Remote View							
	Connected users 10							
	Language							
	✓ English							
	繁體中文							
	简体中文							
	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:							
	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					
	Sort by Time joined Newest first Oldest first Alphabetical ✓ A - Z Z - A					

- 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

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

Wireless video conferecning- 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

APP BYOM	APP BYOM
Miracast	Miracast
Q	Camera
Ŷ	Microphone
Ð	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 accepts screen sharing from the ASTROS App. Users can still connect to the ASTROS Station. 				
Floating menu	Enable to use the annotation/ Whiteboard/ Screen Capture features				
	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	Moderation mode enabled :				
button	 Tap "stop all" button will force all current Screen Sharing to 				
Stop All 🔹 🔿	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.				
Connected user	Moderation mode enabled:				
connected user	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.
57	Press the button to make the user's screen sharing full screen; press again
Full screen button	to resume previous content arrangement.
Connection	Showing how many users are currently connected to this ASTROS
(green string)	Station.
Remote View	Showing how many users are viewing the main screen from their own
(green string)	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

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

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

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.

- 1. Floating Menu will be automatically enabled if a touch display or a mouse is connected to the ASTROS Station.
- 2. Users can drag and move the Floating Menu to a desired location.
- 3. To hide the Floating Menu, please refer to *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
В	Annotation	See Annotation introduction below
С	Whiteboard	See <u>Whiteboard</u> introduction below

Screen Capture



Screen Capture menu

A	Screen Capture menu	
A1	Capture the entire	Capture the entire screen then choose to save the capture or import
	screen	to Whiteboard for further editing.
A2	Exit	Exit to previous menu
A3	Capture a custom	Select a custom area to capture then choose to save the capture or
	area	import to Whiteboard for further editing
λ.	Deserving environmetics	n nlance con [Court Ontion] helpur

Regarding saving options, please see [Save Option] below

Annotation



Annotation menu

В	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
B 5	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

		20		20			
@ 	₿ @ + L	() () () () () () () () () () () () () (6 1 / 5		6 8	© →	

Whiteboard menu

С	Whiteboard menu	
(1)	Select	
C 2	Delete page	Delete current whiteboard page.
3	Add page	Add one whiteboard page. Your view will be switched to the newly added page.
C 4	Select background	Select background for the current whiteboard page.
C 5	Previous page	Go to the previous whiteboard page.
C6	Current page/ Total	Maximum to 5 pages of total
	page	
(7)	Next page	Go to the next whiteboard page.
C 8	Discard all pages	Delete all whiteboard pages.
C 9	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.
	Scan to 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 numerique de la classe B est conforme a 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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10.8 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.