iShare X

Wireless Conferencing System BYOD/ BYOM
Datasheet

Receiver: iShare X400
Transmitter: iShare HX (HDMI dongle), iShare CX (Type C dongle)

The iShare X is our brand-new wireless conference product that's designed to meet today's hybrid workforce's requirement with not only local presentation but also collaborate with remote participants, it enables people to connect the room camera, mic, speaker and display with their own laptops wirelessly, so people can take advantage of room A/V system to collaborate with both in-room and remote meeting participants, without cable limitation and hassle.

Features
iShare X400:
- Pure wireless presentation experience, BYOD (bring your own device), no cable messy.
- Wireless connection between your laptop and room USB peripherals like camera, mic, and speakers for easy video conference.
- Fully compatible with mainstream VC platforms like teams, zoom, webex, etc.
- Wireless content input up to 1080P, HDMI 2.0 4K output
- Support native wireless mirroring protocols like Airplay, Miracast, Chromecast

- Support plug-n-play HDMI/Type-C dongles for wireless connection
- Support Windows APP for wireless connection (MAC APP will be available soon)
- Support 4 split screen view
- Support wireless touch back on interactive whiteboard/touch screen
- Best-in-class data security with dual network and high standard encryption
- PoE supported, saving PSU when connecting with PoE ethernet switch
- OSD control with preview function
- Support whiteboard and annotation
- Customizable home screen page
- Central management platform available
- Support the room camera, mic, speakerphone, BYOM (Bring Your Own Meeting).

iShare HX, iShare CX:
- Can wireless transmit PC's mirror or extended desktop to base unit.
- Quick "Show-me" button to selection switcher the active signal of PC, less than 1s.
- "Show-me" button can independently step in/out the source of PC.
- Dual color LED, green indicates active source signal, red indicates power/link.
BYOM: Support USB devices such as USB speakerphone, USB camera over WI-FI sharing

Overview:
iShare X

iShare X makes connecting or participate in a meeting by a most simple way, touching a button. It also allows the others to join in the meeting more actively. Making your meeting more efficient and productive.

The iShare X400 has built-in Wi-Fi module, support multiple access, including Airplay, Miracast, HDMI dongle, Type C dongle. Users could easily bring their own devices like Mac/Windows laptop/Apple and Android mobile devices to share their contents onto main display wirelessly.

iShare X400 supports USB Camera, USB Speak Phone over WI-FI sharing, by connecting external USB devices to base unit and transmits via Wi-Fi, easily configure your meeting room setup, to make video conference more efficiently.

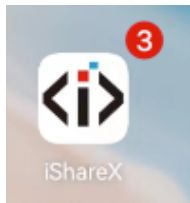A typical iShare X contains one Base Unit iShare X400 and Transmitters e.g. iShare HX and iShare CX for choices.

A typical iShare X Set includes two Buttons, one Base Unit, "iShareX" Android APK and Airplay for iOS". Depending on the application or size of meeting room, user could purchase more kinds of buttons, e.g. HDMI dongle/ Type C dongle if they need.

ID	Name	Description
1	Base Unit	Host unit
2	Transmitters	For PC/laptop to share the desktop/extended desktop.
3	"iShareX" App for Android	For smart android devices to share the screen.
4	Airplay for iOS	For smart iOS devices to share the screen.

Specification

iShare X400 Specification	
HDMI output	1x HDMI 19-pin female connector
Video Output Resolution	3840x2160@60Hz, 3840x2160@30Hz, 1920x1080@60Hz, 1280x720@60Hz
Format Compliance	HDMI1.4/ HDMI2.0
Video Capacity:	1080P @ <60Hz Airplay for iOS devices 1080P @ <60Hz "iShare X2" app 1080P @ <60Hz for all show-me button
HDCP	HDCP1.4/ HDCP2.2
Analog Audio Output	1x 3.5mm PC audio female connectors
LAN port	RJ45 x2: 1,000Mbps x1, 100Mbps x1
USB interface	USB3.0 x3, USB 2.0 x1, Type-C x2
Audio Input	AirPlay, Miracast, DLNA, Windows/MAC, USB/BT Speakphone
Control connectors	3.5mm Phoenix terminal/ RS232 interface
Number of window simultaneous on screen	≥4+14 (4 main windows+ 14 thumbnail windows)
Number of simultaneous connections	≥16
Data rate in wireless	Up to 1,200Mbps
Video Playback Frame Rate	20-60 FPS
Latency	＜100ms, Min 20ms
Wireless transmission protocol	WIFI IEEE 802.11 a/g/n/ac
Frequency band	2.4 GHz & 5 GHz
Dimension (W x D x H)	220mm x 120mm x 41mm（including antenna： 220mm x 120mm x 145mm）
Weight	1.0kg
Temperature	-4° ~ +140° F (-20° ~ +60° C)
Humidity (Storage / Operating)	20%-90% (non-condensing)
DC Power	12V / POE
POE standard	IEEE802.3af
Power Consumption	10W (MAX)

Panel Layout

iShare X400 Front Panel

Note: Front USB A port and type C port cannot be used at the same time, type C port is prior to USB A port.

ID	Name	Description
1	Front USB A connector	USB A port, for dongle pairing, mouse control, USB touch screen etc.
2	Front Type-C connector	Type-C port, for dongle pairing.
3	Power Button	Turn on or off the device.

USB A port
● Used to update the software of the iShare X400.
● Used for pairing the dongle and base unit when the transmitter is plugged in.
● Used for connecting a mouse to create/upgrade Launcher by clicking Download button, hide SSID, Pasword, Wifi IP and Lan IP by clicking Info, check Security level button and control PC source device, when a PC desktop is mirroring to the screen by plugging in the dongle.

- Used for connecting a USB-based touch screen to create/upgrade Launcher by clicking Download button, hide SSID, PASS, Wifi IP and Lan IP by clicking Info, check Security level button and control PC source device, when a PC desktop is mirroring to the screen by plugging in the dongle.
- Used for creating or upgrading Launcher by clicking Download button, when a USB stick is plugged in.
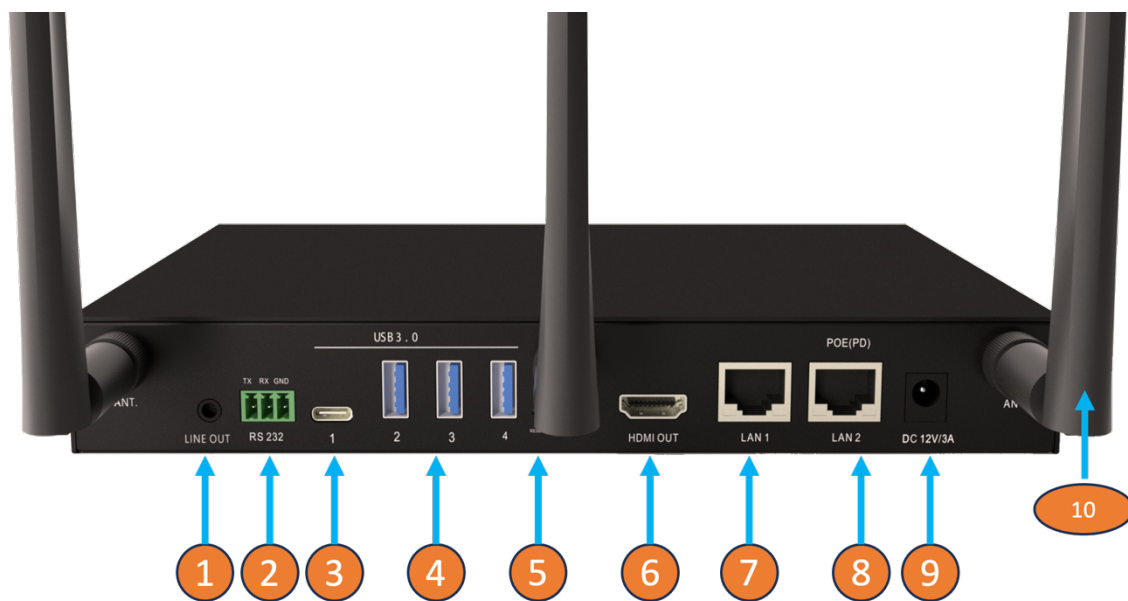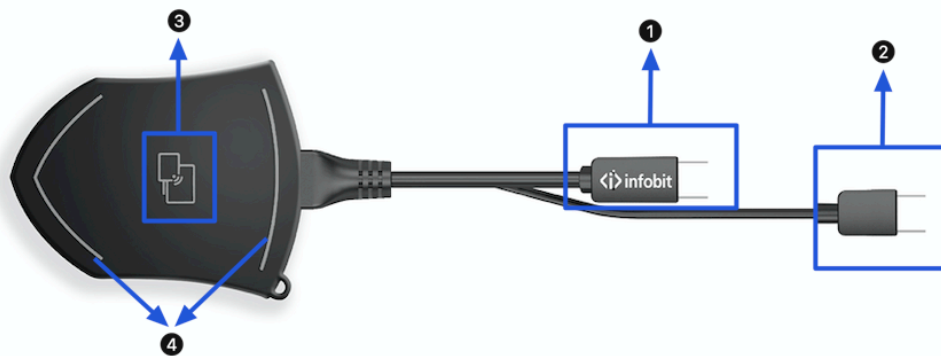
Type-C port
The Type-C port is used for pairing Type C dongle with base unit.

Mechanical fixture points.
The mechanical fixture points are located at the bottom of the base unit.

iShare X400 Rear Panel

ID	Name	Description
1	Line audio output	2 channel analog audio output, Connect a 3.5mm mini-jack PC connector from this jack to an audio system.
2	RS-232	Connect an RS-232 cable from this port to control device.
3	Rear Type-C connector	Type C port, for type C dongle pairing.
4	Rear USB3.0 connector	USB A port, for HDMI dongle pairing, mouse control, USB touch screen and USB device such as USB camera and speaker connecting etc.
5	Reset	Reset button to restore to the factory default setting.
6	HDMI output	Connect an HDMI cable from this port to an HD or 4K/HDMI2.0 display.
7	LAN Ethernet port 1	100Mbps, Connect an Ethernet cable between this jack and a LAN. To connect iShare X400 to LAN.

8	LAN Ethernet port 2	1,000Mbps, Connect an Ethernet cable between this jack and a LAN to connect iShare X400 to LAN. Support POE.
9	DC Power socket	Connect the included power adapter to this socket and connect the plug to an available electrical outlet.
10	Antenna fixture points	Screw up the included three antennas.

USB port
- Used to update the software of the iShare X400.
- Used for pairing the dongle and base unit when the transmitter is plugged in.
- Used for connecting a mouse to create/upgrade Launcher by clicking Download button, hide SSID, Pasword, Wifi IP and Lan IP by clicking Info, check Security level button and control PC source device, when a PC desktop is mirroring to the screen by plugging in the dongle.
- Used for connecting a USB-based touch screen to create/upgrade Launcher by clicking Download button, hide SSID, PASS, Wifi IP and Lan IP by clicking Info, check Security level button and control PC source device, when a PC desktop is mirroring to the screen by plugging in the dongle.
- Used for creating or upgrading Launcher by clicking Download button, when a USB stick is plugged in.

Dongle Front Panel

iShare HX, iShare CX are dongles, which is used for toggling the mirroring from personal PC or MAC desktop on the main screen.
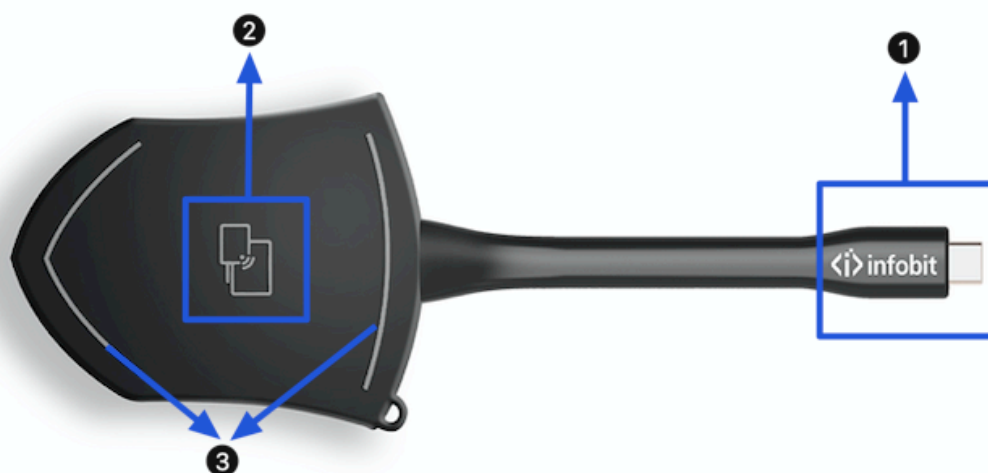
LED ring indicator behavior
- When LED indicator is static green, it's ready to mirror your PC desktop on the main screen.
- When LED indicator is static red:
  1) it's mirroring your PC desktop on the screen.
  2) pairing is done. You can now unplug the Button from the base unit.
- When LED indicator is blinking Green, it indicates
  1) the button is plugged in the laptop and initializing or waiting for user to start the iShare X application,
  2) pairing/software upgrading of the button in the Base Unit is in progress.
- When LED indicator is Off (no light), it indicates
  1) the button is not plugged in the PC/laptop.
  2) the button is defective.
  3) the USB port or computer might be defective.

Model: iShare HX

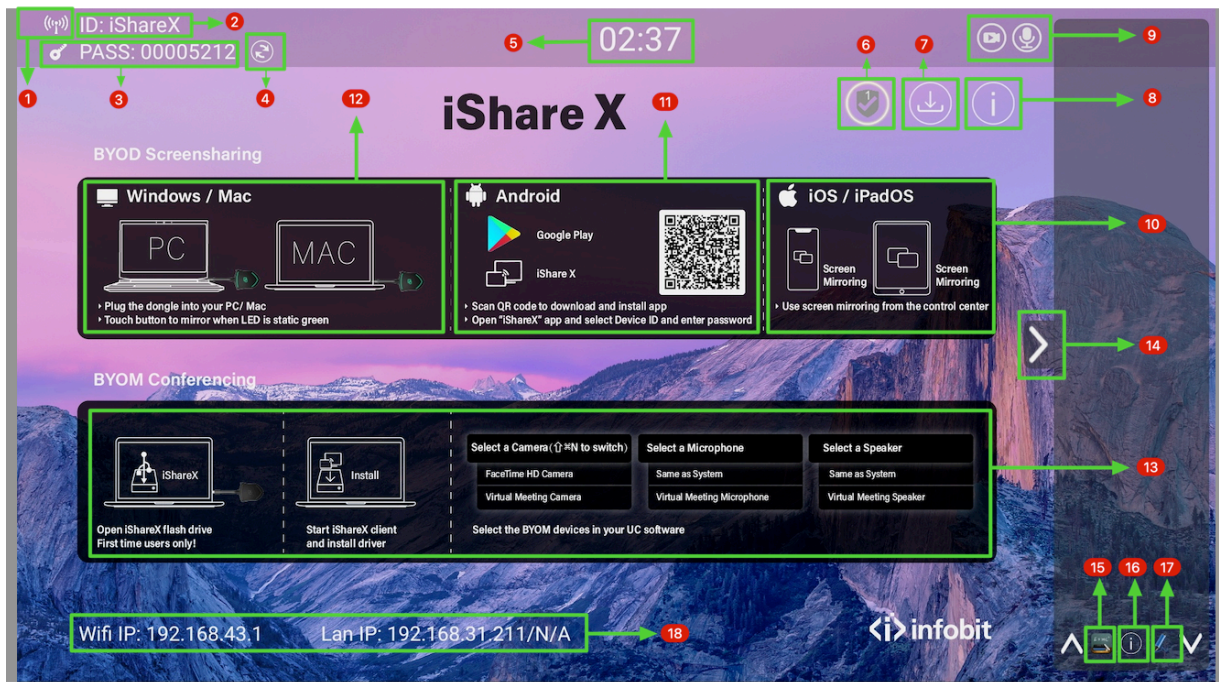| ID	Name	Description
1	HDMI connector	HDMI connector can be plugged into a PC/laptop for sharing your screen.
2	USB connector	Supply power or plug into the base unit for pairing the Button to the Base Unit or upgrade the dongle.
3	Touching Button	Touch the sensor button to start displaying the content of the PC/laptop's screen on the main screen. Touch the button during the meeting will toggle the sharing of the screen.
4	LED ring indicator	Indicates the status of the button.

Model: iShare CX

Note: iShare CX is full function type-C interface with DP Alt mode inside, which supports Audio and video transmission. Thus PC's type C connector also requires full function for mirroring screen.

ID	Name	Description
1	Type C (DP) connector	Using Type C (DP) connector of the button can be plugged into a PC/laptop for sharing your screen.
2	Touching Button	Touch the sensor button to start displaying the content of the PC/laptop's screen on the main screen. Touch the button during the meeting will toggle the sharing of the screen.

3	LED ring indicator	Indicates the status of the button.

Home Screen

ID	Name	Description

1	Wi-Fi Indicator	Wi-Fi Direct mode: internal access point is enabled Wi-Fi Infrastructure mode: "Client-Mode", Wi-Fi connection to router is established, icon displays the current signal strength. A secure Wi-Fi connection is established, or connection to a router failed: Wi-Fi is not available: LAN Infrastructure mode: access point is disabled
2	ID	Wi-Fi name or device name of the Base-unit access point.
3	PASS	Wi-Fi password of base unit.
4	Refresh Wi-Fi-password	Generate new password manually for securing your Wi-Fi network.
5	Time	Show time if LAN has access to a time server; even after disconnecting the LAN connection, the time is displayed until the device has been disconnected from power.
6	Security level	Security level 1-3, display ONLY; the security levels detail can be viewed by clicking the icon; The Security settings can only be changed by administrator in the webserver console setting menu.
7	Download Button	Creating & upgrading Launcher "iShare X.exe" for Windows, MAC to USB stick.
8	Info	Show status-bar (1) – (7) showing/hiding
9	Camera and microphone icon indicator	BYOM: Once iShare X400 connected with USB camera or microphone, the icon will show up accordingly.
10	iOS quick start	iOS devices use Airplay for mirroring.
11	Android Quick Start	Scan QR code to download android app "iShareX" to mirror from smart devices to display.
12	Windows / MacOS Quick Start	Steps to instruct how to transmit PC/laptop onto the main screen. First-time users must install the starter program from the web page or from the USB stick one time.
13	BYOM guide	Steps to use your UC software with iShare X
14	Preview function of the screen contents of the participants with transmitter and mobile devices; White Board& Annotation function icon	Preview contents of all connected transmitters and mobile devices. White Board and Annotation function.

15	Whiteboard icon	Whiteboard function
16	Info	Click to show ID and password when mirroring.
17	Annotation	Annotation function.
18	Wi-Fi IP LAN IP	● Wi-Fi IP: address of base unit in wireless LAN ● Assigned IP: address of base unit in LAN; "N/A" = no connection to network

Wiring Diagram