aCShare-MAX

Quick Start Manual

1. Introduction

Aberman aCShare-MAX is a BYOM receiver main unit of the wireless presentation system. It specially designed to feed content to large displays with UHD 4K resolution. System support cross platform connection for wired and wireless sources to display them in different ways. The main video output support resolutions up to 4K30 while the second one is up to 1080p60. The HDMI input port support up to 4K30 signal resolution. Up to 16 devices could be connected to the unit wirelessly within the 1.2Gbps bandwidth channel, delivering the video content and receiving the internet access through the WiFi 6 network. Depending on signal resolution up to 9 sources could transmit their content simultaneously. These sources could be shown in different layouts and user has a lot of choices for splitting display content in varies creative ways. The system based on Android 11.0 system which providing many features and offers stable performance for content presentation tasks. The software casting methods based on the tranScreen developed algorithms. Goes beyond the traditional presentations where only wired cable connection were allowed the aCShare family open a new vision of connect audio and video equipment in conference and meeting rooms, auditoriums and classrooms - to create an easy, fast and efficient way to interact between the colleagues and partners.

The unit housed in the compact aluminum case robust enough to provide protection and cooling for the internal components. It is equipped with 4 external antennas and could be used on a desktop or wall mounted. Thanks to its stylish design unit will be a nice element part of the modern office or meeting room.

2. Features

- Cross platform Wireless Presentation System
- Support UHD 4K Resolutions up to 3840x2160@30
- Dual HDMI outputs plus one HDMI input
- Up to 9 devices could be shown at the same time using screen splitting
- Remote control option of connected device is also provided
- Up to 23 layouts of content views provided
- Up to 16 device could be connected at the same time
- Ultra low latency (less 0.1 second) when using wireless casting over WiFi 6
- Cloud Casting option – work with your colleagues online all over the World
- User customization features – tune up the presentation according corporate style

3. Package Contents

1x BYOM Receiver Main Unit
1x HDMI Cable 0.5 meter
1x AC Power Cord
1x Quick Start User Manual

4. Warranty Information

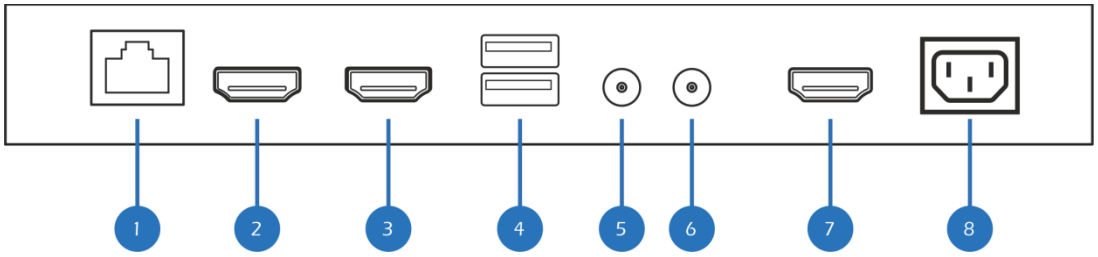
Aberman warrants all units to be free from defects in workmanship and materials, under normal use and service, for a period of three (3) years from the date of purchasing from authorized reseller. If a product does not work as it warranted during this period, Aberman will repair or replace the defective product or its part. Replacement products may be new or reconditioned.

5. Unit's interfaces

5.1 Front Panel

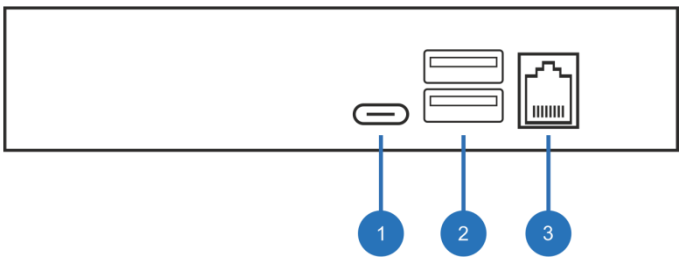
1. Red LED – Power Indicator
2. Blue LED – Hotspot Indicator
3. Green LED – Casting Indicator

5.2 Rear Panel



1. Network interface - Ethernet RJ45 interface, speed up to 1Gps. Support POE power supply (optional).
2. HD OUT1 Interface – Main HDMI Signal output interface, list of supported resolutions: 480p, 720p, 1080i, 1080p, 4K60 up to 60Hz
3. HD OUT2 Interface – Second HDMI Signal output interface, list of supported resolutions: 480p, 720p, 1080i, 1080p up to 60Hz
4. USB 3.0 Interface - Dual-layer 2 USB 3.0 ports, 5V/0.9A output, Type-A USB 3.0 socket - support mouse, keyboard, USB flash drive, touch and other common USB functions.
5. Audio In Audio input interface – mJack 3.5mm for external audio source connection such as mobile phones, computers and dynamic microphones (sample rate 48kHz / 16 bit rate).
6. Audio Out Audio output interface - mJack 3.5mm for external 3.5mm audio head (3/4) headphones or audio amplifier (sample rate 48kHz / 16 bit rate)
7. HD IN Interface –HDMI Signal input interface, list of supported resolutions: 480p, 720p, 1080i, 1080p, 4K60 up to 30Hz
8. Power Inlet – IEC connector, AC input 110-240V, 50-60Hz, consumption <0.5A.

5.3 Side Panel



1. USB-C interface - can be used for pairing Transmitters with the Type-C interface, Type-C HUB, mouse receiver, USB flash drive and other equipment.
2. USB 2.0 Interface - Dual-layer 2 USB 2.0 ports, 5V/0.5A output, Type-A USB 2.0 socket - support mouse, keyboard, USB flash drive, touch and other common USB functions.
3. RS232 Interface – serial port used for central control, the interface type is RJ11 telephone connector, pins are: 5V, GND, RX, TX

6. Using the Casting

This topic will explain the basic functions and operation methods for users. At the same time the system is very simple and almost all the functions could be fully learned intuitively. At the first step connect main unit to the display using HDMI Out 1 port, to the LAN and apply power – after that you are ready to run and use all of the aCShare functions. The system based on the software casting platform developed by tranScreen Technology. There are several types of hardware Transmitters (Buttons) with different types of connecting interfaces. The software casting is also supported when using an Application software.

6.1. Casting by Transmitter

Step 1: Pairing the Receiver and Transmitter units. Depending on the Transmitter model (aCShare-BU/BC) plug the transmitter into the USB/Type-C port of the aCShare-MAX receiver unit and wait for about 10 seconds until the "Pairing Successful" prompt appears, the pairing is completed. Unplug transmitter from receiver.

Step 2: Connecting Transmitter to PC.plug the transmitter into the corresponding USB port of the computer, wait for the computer to automatically install the USB driver to access USB disk.

Step 3: Starting the application. Open USB disk and Run Client.exe application on Windows / Mac OS laptops (This step is required when the computer uses the transmitter for the first time).

Step 4: Starting the casting. After running the Client program, follow the pop-up instructions to cast the screen. Or press the transmitter button or use application control to start/stop casting.

6.2. Casting by Application

Step 1: Open **www.transcreen.app** and download the corresponding application version for specific OS (Android 5.0, iOS 10.0, Mac OSX 10.13, Windows 7/8/10/11, Chrome, Linux).

Step 2: Start Casting Application. Make sure that the computer and aCShare-MAX device are connected to the same local area network. Follow the pop-up instructions to cast the screen.

6.3. iOS Screen Mirroring

Step 1: Connect device to the Receiver Hotspot (default name aCShare-MAX) or the same LAN.

Step 2: For iPhone or iPad swipe down display to open the Control Center and tap on "Screen Mirroring" icon. For Mac device click on the AirPlay icon in the upper right corner of the screen.

Step 3: Select the device name of the Receiver unit for mirroring (default name aCShare-MAX).

6.4. Casting via Miracast

Miracast® enables seamless display of multimedia content — including high-resolution pictures, high-definition video content, live television shows and sports, and other copy-protected premium content — between Wi-Fi devices, even if a Wi-Fi network is not available. Miracast is an industry-wide solution, allowing technology to work across device types and vendors. Most of Android devices and PC under OS Windows 8.1 or later support the Miracast functions.

Step 1: Connect device to the Receiver Hotspot (default name aCShare-MAX) or the same LAN.

Step 2: For Android open "Settings" search for the "Cast Screen" in the system settings. For Windows OS – click "Start" go to "Settigns-Devices-Connect to a wireless display".

Step 3: Select the device name of the Receiver unit for casting (default name aCShare-MAX).

6.5. Casting via DLNA

Step 1: Connect device to the Receiver Hotspot (default name aCShare-MAX) or the same LAN.

Step 2: Open DLNA application (Tencent Video, iQiyi, Youtube and etc.) and select the content.

Step 3: Search for the connected devices for the playback, usually they shown as "TV" icon then select the device name of the Receiver unit for mirroring (default name aCShare-MAX).

6. Specifications

SKU	aCShare-MAX
Type	Wireless Presentation System Receiver Main Unit
CPU	RK3568 Quad-Core 64bit Cortex-A55 @1.8GHz
GPU	Mali-G52 2EE
RAM	DDR 2GB
Internal Storage	EMMC 16GB
OS Running	Android 11.0
File Systems Supported	FAT16/FAT32/NTFS
Video Files	AVI/TS/VOB/MKV/MOV/ISO/WMV/ASF/FLV/DAT/MPG/MPEG
Image Files	HD JPEG/BMP/GIF/PNG/TIFF
Audio Files	MP3/WMA/AAC/WAV/OGG/DDP/HD/FLAC/APE
Decoding	H.265HEVC/MVC Main10 Profile yuv420@L5.1 up to 4096x2304@60fps H.264 AVC/MVC Main10 Profile yuv400/yuv420/yuv422/@L5.1 up to 4096x2304@60fps VP9 Profile0/2 yuv420@L5.1 up to 4096x2304@60fps VP8 verision2,up to 1920x1088@60fps VC1 MPEG-4 MPEG-2 MPEG-1 up to 1920x1088@60fps
WiFi Standards	WiFi6 : 5GHz/2.4GHz 802.11 a/b/g/n/ac
Hotspot Rate	1201 Mbps
Hotspot Load	Up to 9 devices
WiFi	5G/2.4GHz Dual
Bluetooth	Bluetooth V5.0
Casting	
Hardware/Software	Windows, Mac / Android, iOS, Linux, Chrome
Protocols	tranScreen private, AirPlay, DLNA, Miracast
Transmission Delay	<150ms @10 meters /1080P
Transmission Distance	30 meters @1080P
Interfaces	
Inputs	
USB	2x USB3.0 A, 2x USB2.0 A, 1x USB2.0 Type-C,
HDMI	1x HDMI up to 3840x2160@30Hz, 4:4:4, HDMI type A ,19-pin
Analog Audio	1x Analog Stereo Unbalanced, mJack 3,5 mm, stereo
Outputs	
HDMI Main	1x HDMI up to 3840x2160@60Hz, 4:4:4, HDMI type A ,19-pin
HDMI Second	1x HDMI up to 1920x1080@60Hz, 4:4:4, HDMI type A ,19-pin
Analog Audio	1x Analog Stereo Unbalanced, mJack 3,5 mm, stereo
Control	
RS232	1x Serial Port, RS232, RJ11 Connector
LAN	1x Ethernet, 1Gbps, RJ45 Connector
Indication	Power, Hot Spot, Casting
Electrically	
Power Consumption	12.5W (Max) / 0.15W (Standby)
Power Supply	Internal, switching, AC 110 - 240V, 50/60Hz
Mechanical	
Housing	Aluminum Alloy Enclosure
Color	Light Grey
Dimensions (LxWxH)	206 x 125 x 35 mm (without antennas)
Weight	1.5 kg
Enviroments	
Operating Temperature	0°C ~ 50°C
Storage Temperature	-20°C ~ 60°C
Relative Humidity	10%~90% RH (non-condensing)

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