# 4x2 HDMI2.0 Matrix

Support 4K@60hz YUV4:4:4, 18Gbps,HDCP2.2





Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

# SURGE PROTECTION DEVICE RECOMMENDED

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

# **Table of Contents**

1. Features4
2. Package Contents4
3. Specifications4
4. Panel Descriptions5
4.1 Front Panel5
4.2 Rear Panel6
5. Connecting and Operating
6. Application Diagrams
7. Remote Control Description7
8. EDID Management8
8.1 EDID indicator8
9. COMMAND Control9
9.1 Open CommUart Assistant9
9.2 Comport setting:9
9.3 Enter Port Command in Send options10
9.4 Command List10
9.4 Command List10 10. WEB Control11
9.4 Command List
9.4 Command List1010. WEB Control1110.1 Change IP address of PC1110.2 Log in by browser12
9.4 Command List1010. WEB Control1110.1 Change IP address of PC1110.2 Log in by browser1210.3 Video interface13
9.4 Command List1010. WEB Control1110.1 Change IP address of PC1110.2 Log in by browser1210.3 Video interface1310.3.1 Matrix Switching13
9.4 Command List1010. WEB Control1110.1 Change IP address of PC1110.2 Log in by browser1210.3 Video interface1310.3.1 Matrix Switching1310.3.2 Modify Port name13
9.4 Command List1010. WEB Control1110.1 Change IP address of PC1110.2 Log in by browser1210.3 Video interface1310.3.1 Matrix Switching1310.3.2 Modify Port name1310.4 Audio Interface14
9.4 Command List1010. WEB Control1110.1 Change IP address of PC1110.2 Log in by browser1210.3 Video interface1310.3.1 Matrix Switching1310.3.2 Modify Port name1310.4 Audio Interface1410.4.1 ARC operation14
9.4 Command List1010. WEB Control1110.1 Change IP address of PC1110.2 Log in by browser1210.3 Video interface1310.3.1 Matrix Switching1310.3.2 Modify Port name1310.4 Audio Interface1410.4.1 ARC operation1410.4.2 Audio extraction operation(SPDIF & AUX analog out)14
9.4 Command List1010. WEB Control1110.1 Change IP address of PC1110.2 Log in by browser.1210.3 Video interface.1310.3.1 Matrix Switching.1310.3.2 Modify Port name.1310.4 Audio Interface.1410.4.1 ARC operation.1410.4.2 Audio extraction operation(SPDIF & AUX analog out).1410.5 EDID Interface.15
9.4 Command List.1010. WEB Control.1110.1 Change IP address of PC.1110.2 Log in by browser.1210.3 Video interface.1310.3.1 Matrix Switching.1310.3.2 Modify Port name.1310.4 Audio Interface.1410.4.1 ARC operation.1410.4.2 Audio extraction operation(SPDIF & AUX analog out).1410.5 EDID Interface.1510.6 Network Interface.15
9.4 Command List1010. WEB Control1110.1 Change IP address of PC1110.2 Log in by browser1210.3 Video interface1310.3.1 Matrix Switching1310.3.2 Modify Port name1310.4 Audio Interface1410.4.1 ARC operation1410.4.2 Audio extraction operation(SPDIF & AUX analog out)1410.5 EDID Interface1510.6 Network Interface1510.7 System Interface16
9.4 Command List.1010. WEB Control.1110.1 Change IP address of PC.1110.2 Log in by browser.1210.3 Video interface.1310.3.1 Matrix Switching.1310.3.2 Modify Port name.1310.4 Audio Interface.1410.4.1 ARC operation.1410.5 EDID Interface.1510.6 Network Interface.1510.7 System Interface.1611.Firmware Upgrade.17

# **Dear Customer**

Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

#### 1. Features

- 4×2 HDMI Matrix,4×HDMI Inputs,2×HDMI Outputs
- HDMI 2.0 version(Support 4K@60Hz YUV4:4:4)
- Bandwidth up to 18 Gbps
- HDCP 2.2/HDCP1.4 compliant
- Support Panel button, IR remote, Web GUI, Command control
- Support Micro USB port for firmware upgrade
- Support SPDIF out/Analog audio 2.0 extraction
- Support LPCM7.1/24-bit/96khz,Dolby Atmos and DTS-X
- Support Dolby Vision and HDR10
- Support 3D, deep color max 12bit
- Support CEC and ARC
- Support EDID management(Mixed EDID,Copy EDID,Build-in EDID)
- Support 4K60Hz input downscaler to 1080p

### 2. Package Contents

- 1). 1x HDMI Matrix
- 2). 1x 5V 1A DC power supply
- 3). 1x Remote control
- 4). 1x CD

# 3. Specifications

Bandwidth	18 Gbps
	480p@60hz,576P@50hz,720P@60hz,
Resolution	1080P@24hz,1080P@50hz,1080P@60hz,4K@24hz,4K@30hz,
	4K@60hz YUV4:2:0, 4K@ 60hz YUV4:4:4
Operating Temperature Range	0 to +40°C (32 to +104°F)
Operating Humidity Range	5 to 90 % RH (no condensation)
Input Video Signal	0.5-1.0 volts p-p
Input DDC Signal	5 volts p-p (TTL)
Analog audio Ext port	1x3.5mm audio jack
Output Video	HDMI 2.0+HDCP1.4/2.2
Output Audio	Support HD digital audio format, SPDIF out/Analog audio 2.0 out,
Output Audio	LPCM7.1/24-bit/96khz,Dolby Atmos and DTS-X
Dimensions(WxHxD)	L210XW104.3XH20.8mm
Net Weight	0.66kg
Power consumption	2.5W(Max)

# 4. Panel Descriptions

#### 4.1 Front Panel



1 IR receive window

<sup>(2)</sup> Micro USB port for upgrade firmware

3 Indicator of EDID management

(4) Indicator of input1/2/3/4 for OUT-A, or indicator(flickering) of EDID for input1/2/3/4 when in EDID modification mode

(5) Indicator of input1/2/3/4 for OUT-B

(6) HDMI OUT-A button, short press to choose input1/2/3/4(Long press 3s to enter/exit EDID mode, short press choose to modify EDID when in EDID mode)

 $\bigcirc$  HDMI OUT-B button, short press to choose input1/2/3/4 (short press to choose input1/2/3/4 to modify EDID when in EDID mode)

<sup>(8)</sup> ARC button, short press choose to open/close ARC for OUT-A/OUT-B(ARC default turn off, if green light on, means ARC on; If green light off, means ARC off, switching sequence: OUT-A ARC On, OUT-B ARC On, ARC Off).

Long press 3s to enter/exit audio extraction switch mode(button with green light quick flickering), then short press choose to turn on/off audio extraction for OUT-A/OUT-B.

8 Power button, short press choose to power on/standby

Note:

**Reset**:upplug power cable from device, then long press power white button and plug in again power cable to device, until all indicators start flickering.

#### 4.2 Rear Panel



- ① DC 5V 1A input
- 2 HDMI in 1/2/3/4 port
- ③ HDMI out A/B port
- 4 SPDIF out
- <sup>(5)</sup> AUX Analog audio out
- 5 Ethernet port

# 5. Connecting and Operating

- 1. Connect source devices to input ports of the matrix
- 2. Connect HDMI output ports to TV or other HDMI sink devices.
- 3. Connect 5V POWER supply to DC power socket.
- 4. Power on the matrix, HDMI sources and displays.

# 6. Application Diagram



# **ARC Application Diagram:**



#### Note:

ARC Function:need to open CEC function of TV(ARC supported in TV,matrix AUX audio turn to mute).

CEC Function:only support TV power on/standby(TV need to support and open CEC).



# 8. EDID Management



#### 8.1 EDID indicator

EDID management: Mixed EDID, build-in EDID, Copy EDID mode.

EDID indicator1/2/3/4

Similar to EDID 4PIN DIP switch, when EDID indicator light on, it represent "1", light off represent "0", which can combine and represent total 16 groups of EDID.

EDID groups	EDID instruction		
0000	Mixed EDID		
0001	1920*1200 60Hz 2CH		
0010	1080P 60Hz 2CH		
0011	1080P 60Hz 6CH		
0100	1080P 60Hz 8CH		
0101	4K 60Hz 420 2CH		
0110	4K 60Hz 420 6CH		
0111	4K 60Hz 420 8CH		
1000	4K 60Hz 444 2CH		
1001	4K 60Hz 444 6CH		
1010	4K 60Hz 444 8CH		
1011	4K/60Hz 422 HDR 10bit 2CH		
1100	4K/60Hz 422 HDR 10bit 6CH		
1101	4K/60Hz 422 HDR 10bit 8CH		
1110	COPY OUT-A		
1111	COPY OUT-B		

Operation steps:

1. Long press 3s OUT-A button, enter EDID modification mode, indicator light of OUT-A start quick flicker.

2. Short press OUT-B button to choose input1/2/3/4/All for EDID modification(please see indicator in OUT-A).

3. Short press OUT-A button to choose one of 16 groups of EDID for input(please see indicator in EDID).

Switching sequence: Mixed EDID Build-in EDID Copy EDID

4. Long press 3s OUT-A button or wait 10s without any operation, automatically save the setup and exit EDID Mode.

Note: If copy a null HDMI out, matrix defaults to give 1080p EDID, until new display device connect to OUT-A/OUT-B.

# 9.COMMAND Control



9.1 Open CommUart Assistant.

9.2 Comport setting:

Choose correct COM port that connect to PC in parameter configuration area

Baud Rate:	115200 bps(Default)
Parity:	None
Data Bit:	8 bit
Stop Bit:	1 bit

#### 9.3 Enter Port Command in Send options.

	COM_settings	Display	Send_Data	Multi_Strings	Tools	Help	联系作者	PCB打样				
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ear]] n.Num	ata OpenFile COM1 通信端口	Han Sad		thow SaveData	Se S	endFile eivedTo	Stop Cla File Ser	serSen.d □ OnTo	pl⊽ English s ry:[1000 ms/	aveCon Tim/	fis EXT AddCrLf	<u> -</u>
earli n.Num ) Oj	ata_OpenFile COM1 通信端口 enCom 反 EpuBaudRat	More Sett	▼ HEXS ting: ▼ Show	how SaveData Time and Pack 2 exe=0	Se Creation Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Seco	endFile eivedTo me: 20	Stop Cle File Ser Ms No 1 I	earSend [□ OnTo adHEX [□ SendEve SystesTo [末尾 ▼]	p <b>⊽ English s</b> ry:1000 ms/ erifyNone	aveCon Tim/	fig EXT AddCrLf	
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9.4 Command List

All commands start from "#",command head "%c":"d" parameters,"I" lock,"s" save.
 " The underline cannot omit.

Parameter 1: "%d":0 means all output, "1-x" means specified output( $1\sim 2$ ), Parameter 2 same to Parameter 1.

3) .Command head & Parameter 1 & Parameter 2 & Attribute parameter...need to add one "SPACE".

4) . "/" means cannot use the Parameter.

The following table is only an example.Please refer to the list of instructions.

Command	Command Head	Parameter 1	Parameter 2	Attribute	Attribute
				Parameter	Parameter
Video switch	#video_%c	out%d	/	matrix=%d	onoff=%d
Audio switch	#audio_%c	in%d	/	arc=%d	dec=%d
EDID select	#edid_%c	in%d	/	mode=%d	data=%d

Please refer to the "Command list" for details. Example:OUT-A switch to input1. Operation format:#video\_d out1 matrix=1

Example:open ARC for OUT-A. Operation format:#audio\_d arc=1

**10.WEB Control** 

Example:All input select Mixed EDID. Operation format:#edid\_d in0 data=0

# E MITCP/IP

#### **10.1 Change IP address of PC**

Before configuring the device through the website, it is necessary to configure the IP address of the computer configured with the device (mainly to ensure that the computer and the device are set in the same network segment).

1) . Open the network control center and set the computer's IP address:

	È ↓ 以大网 眉性 × 网络 注册时使用: ⑦ Realtek PCIe GBE Family Controller 配量(C)	成本型別回版         ア           Internet MoX版本4 (TCP/IPv4) 誕生         X           案规         會用配置           如果网络支持此功能,则可以获取自动指版的 IP 设置。否则,你需要从网 结系统管理员处获得适当的 IP 设置。           ④ 自动获得 IP 地址(O)
持续时间: 01:58:59 速度: 1.0 Gbps 详细信息() 活动 已发送	戦     戦     戦     戦     戦     電     戦     電     戦     電     戦     電     戦     電     戦     電     戦     電     戦     電     戦     電     戦     電     戦     電     戦     電     戦     電     戦     電     戦     電     戦     電     戦     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電     電	<ul> <li>○使用下面的 IP 地址(S):</li> <li>IP 地址(I):</li> <li>・</li> <li>子宛昭嗣(U):</li> <li>・</li> <li>記以現失(D):</li> <li>・</li> <li>・</li> <li>● 自动获得 DNS 服务器地址(B)</li> <li>○使用下面的 DNS 服务器地址(E):</li> </ul>
学習: 516,220,206 2,514,840,608 (●漏性(P) ●新用(D) 诊断(G) 关闭(C)	安装(N)	首选 DNS 服务器(P): ・・・ 管用 DNS 服务器(A): ・・ 通出时验证设置(L) 業级(V)
	補定 取消	機定 取消

- 2). Choose to use Static IP, with the IP address set to 196.168.1.x (x ranges from 0 to
- 254, but cannot be consistent with the device's IP address),
- 3). Subnet mask set to 255.255.255.0
- 4). Gateway set to 192.168.1.1

nternet 协议(TCP/IP)	属性 ?
常规	
如果网络支持此功能,则可以测你需要世网络支持的方法	获取自动指派的 IP 设置。否则, 温适光的 TP 设置
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○ 自动获得 TP 地址(①)	
●使用下面的 IP 地址(S):	
IP 地址(I):	192 .168 . 1 . 8
子网掩码(U):	255 . 255 . 255 . 0
默认网关 (2):	
○ 自动获得 DNS 服务器地划	
● 使用下面的 DMS 服务器地	b址(图):
首选 DNS 服务器 (P):	
备用 DNS 服务器(A):	1
	高级 (V)
	确定 取消

#### 10.2 Log in by browser

Default IP address for log-in:192.168.1.168

Type in user name and password(Both default:admin)

Note:suggest to use newer version of Google,firefox,Apple browser for better compatibility.

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	/ Pasawold	
	Log in	
		0

#### 10.3 Video interface

Used for switch input, modify name of port etc.

10.3.1 Matrix Switching

In left side Output area, click to choose the output port;

In right side Input area, then click to choose the input for selected output.

(If click "ON" button, then turn to "OFF" to close output)

10.3.2 Modify Port name:

Click to choose the port,rename in edit box,then click to save.

Note: When mouse pointer move to port, it will display the new name;

Rename limit:3~15 letters/numbers/underline.

F 4x2 HDMI Matrix × +		- ø ×
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🛅 火張官方站点		部均设备上的书班
	Video Control	^
	output.	
Video		
Audio		
EDID	03 04	
Network	02>>02 ON	
System		
	Modify Port Name : Rename	
		激活 Windows 转到"说题"以激活 Windows。
		~

#### **10.4 Audio Interface**

10.4.1 ARC operation

1).Click OUT-A,open one way ARC channel;

2).Click OUT-B,open another one way ARC channel;

3).When choose to click, it turn to full blue frame;

4).If not click to choose, then ARC in turn off status;

**Note:** You can not choose ARC for OUT-A/OUT-B simultaneously, click to choose only one way ARC channel, or turn off ARC for OUT-A/OUT-B.

10.4.2 Audio extraction operation(SPDIF & AUX analog out)

1).In audio extraction area, click OUT-A, to choose audio extraction for OUT-A;

2).Click OUT-B,to choose audio extraction for OUT-B;

3). When choose to click, it turn to full blue frame;

4).If not click to choose, then Audio extraction in turn off status;

**Note:** You can not choose Audio extraction for OUT-A/OUT-B simultaneously, click to choose only one port(OUT-A/OUT-B), or click to turn off.

When reset device, default open Audio extraction for OUT-A, but ARC defaults to turn off for both OUT-A and OUT-B.

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	Audio Control
Video	OUT-A OUT-B
Audio	
EDID	
Network	Audio Extraction
System	OUT-A OUT-B

#### **10.5 EDID Interface**

Configure EDID(total 16 kinds of EDID) for input, and display EDID information for input.

- 1) . In left side Input area, click to choose the input first;
- 2) .In right side EDID area, then click to choose EDID for input;
- 3) .In EDID information area, display current EDID.

**Note:**When mouse pointer move to input port,will display current name of this port,deep blue frame means the port with device connected,when click to choose,it turn to full blue frame,you can choose one port or multiports input.

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	EDID C	Control	
	Input :	EDID :	
Video	00>>input1 00>>input2	00:Mixer 01:1920x1200 2CH	
Audio		02:1080P 2CH 03:1080P 6CH	
EDID	00>>Input3 00>>Input4	04:1080P 8CH 05:4K 420 2CH	
Network		06:4K 420 6CH 07:4K 420 8CH	
System	All	08:4K 444 2CH 09:4K 444 6CH	
		10.4K 444 8CH 11.4K HDR 108it 2CH	
	EDID Information :	12/4K HDR 10Bit 6CH 13/4K HDR 10Bit 8CH	
	3840x2160P@60 E-AC3:7.1	14:Copy Out-A 15:Copy Out-B	

#### **10.6 Network Interface**

MAC address can not be modified, for display only.

#### Default IP address:192.168.1.168

**Static IP**: When using static IP(DHCP Off), you can modify IP address/Net Mask address/Gate Way address, then click Apply button, it will re-login web interface after 8s.

**Dynamic IP**:Click DHCP switch(DHCP On),IP address/Net Mask address/Gate Way address turn to grey,can not be modified,but can display current IP address information.

F 4x2 HDMI Matrix × +	- ¤ ×					
← → C ☆ ▲ 不安全   192.168.1.168/index.	html# 😽 🖏 🔆 😩 ፤					
III 应用 🔮 海宝 🛄 Welcome to The						
	Network Information					
Video	Mac Address : 4658-4E-1E58-A8					
Audio	IP Address : 192.168.1.156					
EDID	Net Mink Address - DCC DCC 0					
Network	THE HIGH PARTON. LEASE 200					
System	Gate Way Address : 192.168.1.1					
	DHCP: Off					
	Арру					

#### **10.7 System Interface**

Used for changing log in password and display software version informations. System Setting:

Reboot:Click to reboot device;

Factory:Click to reset device;

Change Password: Type in User Name and password.

Note: The user name and password, only support 5~15 letters/numbers/underline(Total 6 groups of user name &password, you can change current log in user name and password, it will take effect in next login , default user name and password is "admin", other 5 groups are:admin2, admin3, admin4, admin5, admin6, password is 123456).

F 4x2 HDMI Matrix × +	- 🗆 X
← → C 介 ▲ 不安全   192.168.1.168/index	er Qi ☆ 🛎 :
III 应用 🕝 淘宝 🧾 Welcome to The	
	System Setting
Video	System Setting Reboot Factory
EDID	Change Password
Network	User Name : admin
System	New Password :
	Confirm the Password :

#### **11.Firmware Upgrade**

1). The user should use the CD in box, read and install software **UART\_ISP.exe** in PC;

2). Connect unit to PC with usb cable from micro usb port, click "REFRESH" button first, then click UART\_JSP.exe software to select correct usb port:

COM	BAUD
COM4 USB-SERIAL CH340	▼ 115200 ▼
COM1 通信端口	

(Note: if PC is unable to identify the correct usb port, please install the driver from CD first)

3). Set the same baud rate with PC host(default 115200)

4).MCU application layer upgrade:Type in "A1" in PORT and select PATH with update file then click UPDATA wait for update till display "Succeed" in red frame:

COM12 USB-SERIAL CH340    115 PORT A1    RE PATH C:\Users\RE030\Desktop\EX55新固件\EX55_TX_STM3. UP [01] : 2018-12-19 09:26:16	FRESI
ORT A1 RE ATH C:\Users\RE030\Desktop\EX55新固件\EX55_TX_STM3: UP [01] : 2018-12-19 09:26:16	FRESI
A1 RE PATH C:\Users\RE030\Desktop\EX55新固件\EX55_TX_STM3: UP [01] : 2018-12-19 09:26:16	FRE 51
ATH C:\Users\RE030\Desktop\EX55新固件\EX55_TX_STM3. UP [01] : 2018-12-19 09:26:16	•••
C:\Users\RE030\Desktop\EX55新固件\EX55_TX_STM3:	
[01] : 2018-12-19 09:26:16	
[01] : 2018-12-19 09:26:16	and a second
[01] : 2018-12-19 09:26:16	DATA
[01] : 2018-12-19 09:26:16	
File name : C:\Users\RE030\Desktop\EX55新固件	
File size : 92032	
File start : 0x3000	
Send link A2Ack link ok !	
Send erasAck eras ok !	
Send dataAck data ok !	
Send stopAck stop ok !	
Spend time : 11513 ms	

5).WEB application layer upgrade:Type in "F0" in PORT and select PATH with update file then click UPDATA wait for update till display "Succeed" in red frame.

COM1 通信端口 ORT F0 ATH C:\		115200 × REFRESH
ORT FO ATH C:\		REFRESH
F0 ATH C:\		REFRESH
ATH C:\		
2:\		•••
	22	IIDDATA
JART_ISP V1.4 2019-10-24		^
1.Refresh the serial com;		
2.Select com, baud, port;		
3.Select firmware or drag to this software 4.Upgrade;	e;	
Note :		
1.You need to disconnect from other device	es be	fore
upgrading;		
<pre>upgrading; 2.Do not interrupt the upgrade when upgrade</pre>	ding,	
unerwise the device may be damaged;		

#### Note:

- 1. You need to disconnect from other devices before upgrading;
- 2. Do not interrupt the upgrade when upgrading, otherwise the device maybe damaged;
- 3. When update progress bar stop before successfully finish upgrade, please power off

PC host and restart to continue the upgrade.

#### MAINTENANCE

Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner of benzine to clean this unit.

#### **PRODUCT SERVICE**

#### (1) Damage requiring service:

The unit should be serviced by qualified service personnel if:

- (a) The DC power supply cord or AC adaptor has been damaged;
- (b) Objects or liquids have gotten into the unit;
- (c) The unit has been exposed to rain;
- (d) The unit does not operate normally or exhibits a marked change in performance;

The unit has been dropped or the cabinet damaged.

(2) **Servicing Personnel:** Do not attempt to service the unit beyond that described in these operating instructions.Refer all other servicing to authorized servicing personnel.

(3) **Replacement parts:** When parts need replacing ensure the servicer uses parts

specified by the manufacturer or parts that have the same characteristics as the

original parts. Unauthorized substitutes may result in fire, electric shock, or other Hazards.

(4) **Safety check:** After repairs or service, ask the servicer to perform safety checks to confirm that the unit is in proper working condition.

#### WARRANTY

If your product does not work properly because of a defect in materials or workmanship, our Company (referred to as "the warrantor") will, for the length of the period indicated as below, (Parts(2)Year, Labor(90) Days) which starts with the date of original purchase ("Limited Warranty period"), at its option either(a) repair your product with new or refurbished parts, or (b) replace it with a new of a refurbished product. The decision to repair or replace will be made by the warrantor. During the "Labor" Limited Warranty period there will be no charge for labor.

During the "Parts" warranty period, there will be no charge for parts. You must mail-in your product during the warranty period. This Limited Warranty is extended only to the original purchaser and only covers product purchased as new. A purchase receipt or other proof of original purchase date is required for Limited Warranty service.

#### **MAIL-IN SERVICE**

When shipping the unit carefully pack and send it prepaid, adequately insured and preferably in the original carton. Include a letter detailing the complaint and provide a day time phone and/or email address where you can be reached.

#### LIMITED WARRANTY LIMITS AND EXCLUSIONS

1) This Limited Warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage.

The Limited Warranty ALSO DOES NOT COVER damages which occurred in shipment,

or failures which are caused by products not supplied by warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty

installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or service by anyone other than a Factory Service center or other Authorized Servicer, or damage that is attributable to acts of God.

2) THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRNTY. (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, travel to and from the service, loss of or damage to media or images, data or other recorded content. The items listed are not exclusive, but are for illustration only.)

3) PARTS AND SERVICE, WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY, ARE YOUR RESPONSIBILITY.