

Ai Intelligent Cloud Photo Frame

Chapter One: Product Overview



Overview: Connection Method One: Wireless Connection

Suitable for Apple phones.

1. Swipe down to open the screen mirroring feature.
2. Select the device you want to connect to.
3. Tap DISP - 6C4297.
4. Enter the password: 1234.

Suitable for Android phones

Swipe down to enable screen mirroring. Select the device you want to connect to. Tap DISP - 6C4297.

For Windows:

1. Press the 'Windows key' + 'K key'.

2. Click. DISP - 6C4297

※Connection method two: HDMI connection, please briefly press the power button to switch.

- ◆ The HYF-M5-V1.0 mainboard is a dedicated board designed by our company for mobile screen projection applications, featuring a high-performance 32-bit RISC CPU, efficient DDR3 memory access system, and a powerful video decoding and display multimedia processing system. Additionally, it provides a range of peripheral interfaces at the board level, such as Type-C power ports, Type-C USB, HDMI IN input interfaces, and other general-purpose external interfaces. The HYF-M5-V1.0 is suitable for multiple niche markets and can meet various decoding and display application needs. This solution offers advantages such as fast boot-up speed, low power consumption, low cost, rich hardware interfaces, and stable performance. It supports LCD displays with resolutions ranging from 800x600 to 1920x1080 and different display sizes, including LVDS dual 8-bit and EDP display interfaces. Key functional features:
- ◆ **Supports EDP/LVDS interface displays**
- ◆ **FI 2.4G + 5G dual-band Wi-Fi connection and data transfer**
- ◆ **Wired and wireless screen mirroring for 99% of Apple and Android phones**
- ◆ **Supports wired and wireless screen mirroring for 99% of Apple phones**
- ◆ **Wireless screen mirroring for Windows PCs, Macs (Apple system computers) without a wired connection**
- ◆ **System: Windows PCs, Macs (Apple system computers), Android devices, HDMI IN input**
- ◆ **Motherboard image**
- ◆ **Auto-rotation**
- ◆ **One-click original/equal-scale display, one-click switching**

Basic specifications:

CPU	1.0GHz
DRAM	max.256MB ext. 1333Mbps
Internal storage flash memory	SPI Flash 8M
Display interface	LVDS, EDP interface, supports maximum resolution up to 1920x1080p@60fps
Built-in backlight	LED backlight
Video Decoder	Multi-format @ FHD 60FPS
Wi-Fi frequency band	2.4G Wi-Fi
Language support	Supports multiple languages
Screen projection system compatibility	Android, iOS, Windows
Type-C interface	Type-C power port
Type-C interface	Type-C USB interface
HDMI IN interface	HDMI IN interface
Button interface	Supports 4 control buttons
Speaker interface:	1 set of 3W x 2 stereo dual speakers
Software upgrade	Supports software upgrades via USB
Power input	Input: DC5V 3A.

Definition of motherboard interface pin

Speaker interface (4-pin, 1.25mm pitch)

serial numbe	define	property	describe
1	L-	output	Left channel output positive terminal
2	L+	output	Left channel output negative
3	R-	output	Right channel output positive terminal
4	R+	output	Right channel output negative terminal

- LVDS display interface (30-pin, 1.0 mm pitch)

serial numbe	definition	property	describe
1	LCD_VCC	power supply	+3.3V/5V/12V
2	LCD_VCC	power supply"	+3.3V/5V/12V
3	LCD_VCC	power supply"	+3.3V/5V/12V
4	GND	power supply"	power supply
5	GND	power supply"	power supply
6	GND	power supply"	power supply
7	RX00-	power supply"	power supply
8	RX00+	power supply"	data
9	RX01-	power supply"	data
10	RX01+	power supply"	data
11	RX02-	power supply"	data
12	RX02+	power supply"	data
13	GND	power supply"	power supply
14	GND	power supply"	power supply
15	RXEC-	power supply"	clock
16	RXEC+	power supply"	clock
17	RX03-	power supply"	data
18	RX03+	power supply"	data
19	RXE0-	power supply"	power supply
20	RXE0+	power supply"	data
21	RXE1-	power supply"	data
22	RXE1+	output	data
23	RXE2-	output"	data
24	RXE2+	output"	data
25	GND	power supply	power supply
26	GND	power supply	power supply
27	RXEC-	output"	data
28	RXEC+	output"	data
29	RXE3-	output"	data
30	RXE3+	output"	data

- LVDS display backlight interface (6-pin, 1.25 mm pitch)

serial numbe	definition	property	describe
1	+12V	input	Power supply output or input
2	+12V	input	Power supply output or input
3	EN	output	Control the display screen backlight on and off.
4	ADJ	output	Adjust the display backlight brightness.
5	GND	power supply	power supply
6	GND	power supply	power supply

- EDP display interface (30-pin, 0.5 pitch)

serial numbe	definition	property	describe
1	NC	NC	NC
2	H_GND	power supply	power supply
3	LANE1_N	output	data
4	LANE1_P	output	data
5	GND	power supply	power supply
6	LANE0_N	output	data
7	LANE0_P	output	data
8	GND	power supply	power supply
9	AUX_CH_P	output	data
10	AUX_CH_N	output	data
11	GND	power supply	power supply
12	LCD_VCC	power supply	3.3v
13	LCD_VCC	power supply	3.3v
14	NC	NC	NC
15	H_GND	power supply	power supply
16	H_GND	power supply	power supply
17	HPD	output	data
18	BL_GND	power supply	power supply
19	BL_GND	power supply	power supply
20	BL_GND	power supply	power supply
21	BL_GND	power supply	power supply
22	BL_ENABLE	output	Control the display screen backlight on and off
23	BL_PWM	output	Adjust the display backlight brightness.
24	NC	NC	NC
25	NC	NC	NC
26	BL_POWER	input	Power supply output or input
27	BL_POWER	input	Power supply output or input
28	BL_POWER	input	Power supply output or input
29	BL_POWER	input	Power supply output or input
30	NC	NC	NC

● Button interface (10-pin, 0.5 pitch)

serial numbe	definition	property	describe
1	GND	power supply	power supply
2	AL	output	Output left channel
3	AR	output	Output right channel
4	GND	power supply	power supply
5	HP-DET	power supply	Headphone, speaker detection pin
6	Volume Up / Backlight Down / Full Screen / Auto Rotate On / Language / Chinese		
7	Set the foot	output	data
8	Volume down / Backlight up / Proportional / Auto-rotate off / Language / English	output	Volume down / Backlight up / Proportional / Auto-rotate off / Language / English
9	Function Switch Foot	output	data
10	LDE	power supply	LDE 3.3V

Warning Statement

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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment 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 equipment 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 equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user 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 equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.