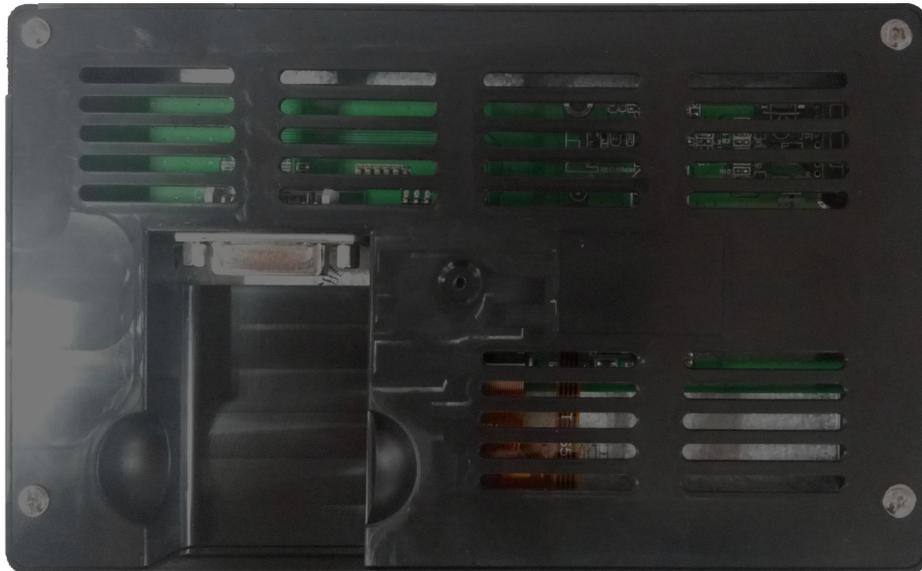


# HDW070\_004L

7.0 Inches, 800\*RGB\*480, 16.7M Colors, LVDS screen



## ● Display

Item	Parameter	Description
Color	16.7M(16777216)Colors	24-bit color 8R8G8B
Active Area(A.A)	154.1mm (W) *85.9mm (H)	800x480 Pixel
Resolution	800*480	-
Backlight	LED	-
Brightness	500nit	It's not recommended to set brightness to 1%~30% of the maximum,which may lead a flicker
Note: You can use dynamic screen saver wallpapers to avoid afterimages caused by fixed page display for a long time.		

## ● Voltage & Current

Item	Conditions	Min	Typ	Max	Unit
Power Voltage	-	4.6	5.0	6.0	V
Operation Current	VCC = +5V, Backlight on	-	760	-	mA
	VCC = +5V, Backlight off	-	140	-	mA
Recommended power supply: 5V 1A DC					

## ● Reliability Test

Item	Conditions	Min	Typ	Max	Unit
Working Temperature	60%RH at 5V voltage	-20	25	70	℃
Storage Temperature	-	-30	25	85	℃
Working Humidity	25℃	10%	60%	90%	RH
Protective Paint	Standard thickness: 75um	-	有 Yes	-	-
Protection Level	IP65(Front)				
UV Resistant	1.35w/m <sup>2</sup> @UVA-340nm 168h (Level F1)				
Shell Flame Retardant	UL 94-V0				
Salt Spray Test	GB/T2423.17-2008; 48h				

## ● Peripheral

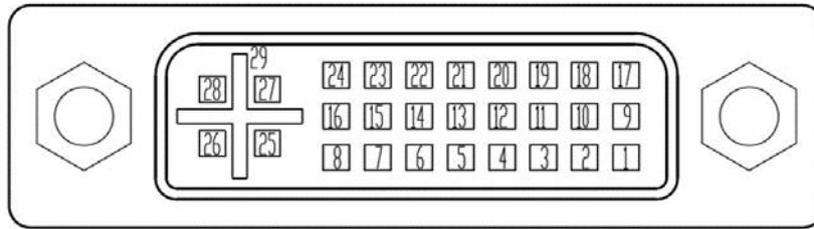
Peripheral	4-wire resistive touch panel
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## ● Installation

Item	Description
Shell Material	ABS engineering materials
Shell Color	black
Dimensions	199.3mm(W)*124.6mm(H)*30.3mm(T)
Installation Hole Dimension	188.5mm*114.0mm
Installation Depth	35.0mm
Net Weight	500g
Accessories	Waterproof rubber washer and clasp

**Interface**

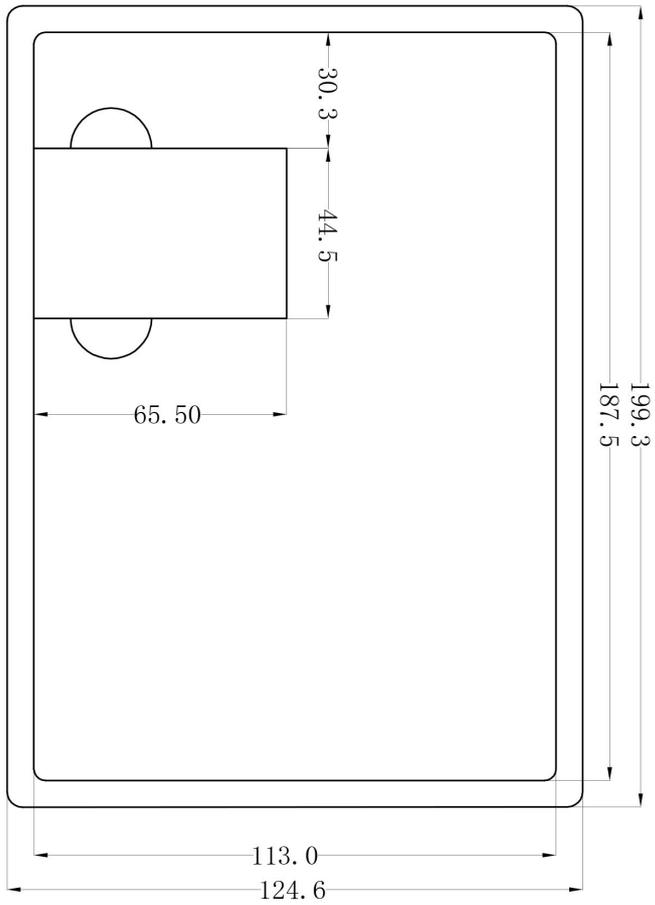
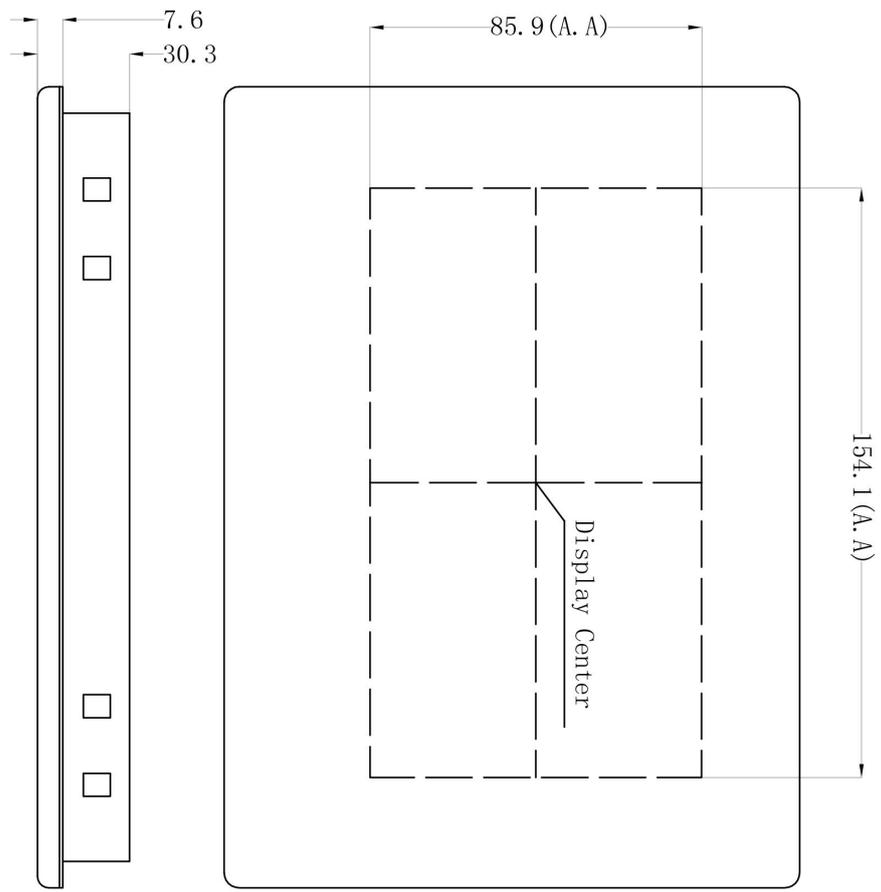
Item	Description
Interface	LVDS, See dimension drawing for interface definition (VDD=+5.0V)
Socket	DVI-I interface



DVI-I

Pin	Name	Function	Description
1	RX2-	Input	-LVDS Differential data Input input
2	RX2+	Input	+ LVDS Differential data Input
3	GND	Power	GND
4	BL_PWM	Input	Backlight dimming control, PWM is used to adjust brightness output.
5	NC	-	NC
6	VDD	Power	5.0V Power Input
7	VDD	Power	5.0V Power Input
8	VDD	Power	5.0V Power Input
9	RX1-	Input	- LVDS Differential data Input
10	RX1+	Input	+LVDS Differential data Input
11	GND	Power	GND
12	RX3-	Input	-LVDS Differential data Input
13	RX3+	Input	+LVDS Differential data Input
14	VDD	Power	5.0V Power Input
15	GND	Power	GND
16	GND	Power	GND
17	RX0-	Input	- LVDS Differential data Input
18	RX0+	Input	+ LVDS Differential data Input
19	GND	Power	GND
20	USB_DM	I/O	USB D- signal
21	USB_DP	I/O	USB D+ signal
22	GND	Power	GND
23	RXCLK+	Input	Clock + LVDS Differential data Input
24	RXCLK-	Input	Clock - LVDS Differential data Input
25	VDD	Power	5.0V Power Input
26	VDD	Power	5.0V Power Input
27	NC	-	NC
28	NC	-	NC
29	GND	Power	GND

Interface Timing refers to the corresponding LCD Timing parameters. Please confirm the relevant LCD screen information with the DWIN salesperson.



Display center is used as position reference.

Unmarked Tolerance is  $\pm 0.3\text{mm}$ .

Display Area is marked in Dash lines.

Model	HDW070_004L			 Beijing DWIN Technology Co., Ltd.		
Drawing	A4	Drawn	DWIN			
Scale	1:1	Review		Date		
Unit	mm	Approval		Date		

## HMI installation guide



Step.1: Embed the HMI in the hole;



The mounting holes are marked by the red circles.

Step.2 : Place the buckles into the mounting holes as shown;



Step.3 : Tighten the screws to fix the HMI on the device.

## 8 Revision records

Version	Revise Date	Content	Editor
00	2023-07-25	First Edition	Kaya
01	2024-01-15	Revise color parameter	YML
02	2024-04-12	Add Important Disclaimer	YML

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Thank you all for continuous support of DWIN, and your approval is the driving force of our progress!

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