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HDW070_003L

7.0-inch, 800*480, 65K colors,LVDS Multimedia Display

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● **Display Parameters**

Properties	Parameters	Description
Color	65K (65536) colors	16 bit color 5R6G5B
Active area (A.A.)	154.1 mm (W) *85.9 mm (H)	800*480 pixels
Resolution	800*480 pixels	
Backlight	LED	-
Brightness	900nit	When the brightness is adjusted to 1% to 30% of the maximum brightness, flickering may occur, and it is not recommended to use in this range
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	Typical	Max	Unit
Power voltage	VLCD	5.0	12.0	15.0	V
	VCC5	-	5	-	V
Operating current	VCC = +5V, Backlight on	-	760	-	mA
	VCC = +5V, Backlight off	-	140	-	mA
Recommended power supply: 5V 1A DC					

● **Reliability Test**

Item	Conditions	Min	Typical	Max	Unit
Operating temperature	60%RH at 5V voltage	-20	25	70	℃
Storage temperature	-	-30	25	85	℃
Operating humidity	25℃	10%	60%	90%	RH
Conformal coating	Yes				

● **Peripheral**

Peripheral	
Peripheral	Resistive touch screen (R4)

● **Installation**

Properties	Description
Enclosure material	Reinforcing material
Enclosure color	Black
Dimension	210.40(mm)*149.9(mm)*23.90(mm)
Hole size	198.10(mm)*137.5(mm)
Installation depth	20.85 (mm) (maximum depth when connecting the connector)
Net weight	500g
Accessories	Waterproof rubber washers and buckles

● **Packaging**

Packing Capacity				
Model	Size	Layer	Quantity/Layer	Quantity(Pcs)
Carton1:	220mm(L)*160mm(W)*47mm (H)	-	-	-
Carton2:	250mm(L)*200mm(W)*80mm (H)	-	-	-
Carton3:	320mm(L)*270mm(W)*80mm (H)	2	1	2
Carton4:	450mm(L)*350mm(W)*300mm(H)	1	16	16
Carton5:	600mm(L)*450mm(W)*300mm(H)	1	30	30

● **Interface Parameters**

Properties	Conditions
Interface cable	LVDS(VDD＝+5.0V as default, 3.3V optional)
User interface	34 pin connector
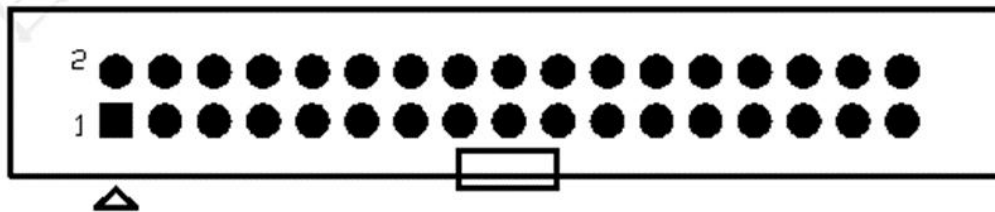
34PIN connector

Pin	Name	Function	Pin	Name	Function
1	VCC5	+5V/+3.3V Power input	18	RXIN3+	+LVDS Differential data Input
2	VCC5	+5V/+3.3V Power input	19	NC	Not connect
3	GND	Ground	20	NC	Not connect
4	GND	Ground	21	TS_XP	Touch screen signal
5	RXIN0-	-LVDS Differential data Input	22	TS_XM	Touch screen signal
6	RXIN0+	+LVDS Differential data Input	23	TS_YP	Touch screen signal
7	GND	Ground	24	TS_YM	Touch screen signal
8	RXIN1-	-LVDS Differential data Input	25	LCD_CTR	PWM Input control
9	RXIN1+	+LVDS Differential data Input	26	GND	Ground
10	GND	Ground	27	NC	Not connect
11	RXIN2-	-LVDS Differential data Input	28	NC	Not connect
12	RXIN2+	+LVDS Differential data Input	29	NC	Not connect
13	GND	Ground	30	NC	Not connect
14	RXCLKIN-	-LVDS Differential clock Input	31	VLCD	+5V~+12V Power input
15	RXCLKIN+	+LVDS Differential clock Input	32	VLCD	+5V~+12V Power input
16	GND	Ground	33	GND	Ground
17	RXIN3-	-LVDS Differential data Input	34	GND	Ground

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

MAX:23.9

8.0

149.9

85.9(A.A)

68.4

103.5

154.1(A.A)

210.4

Display Center

136.5

197.1

60.4
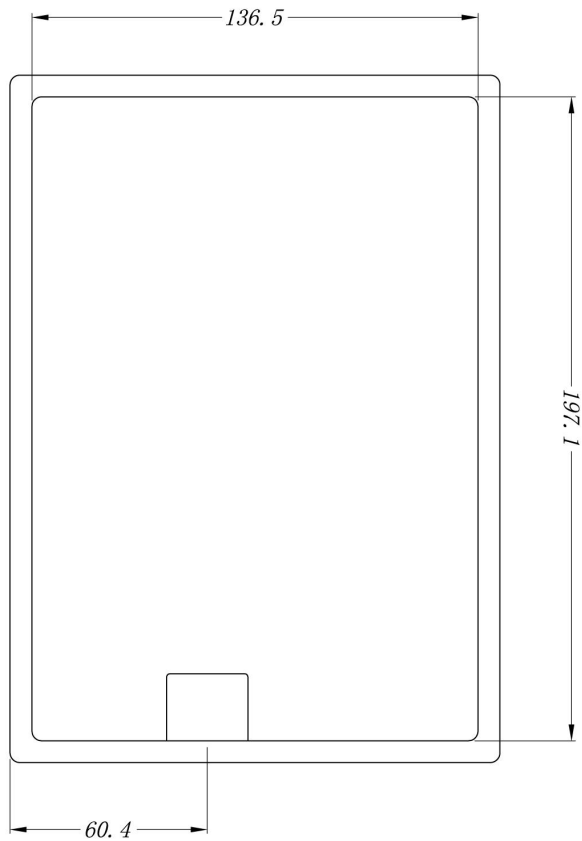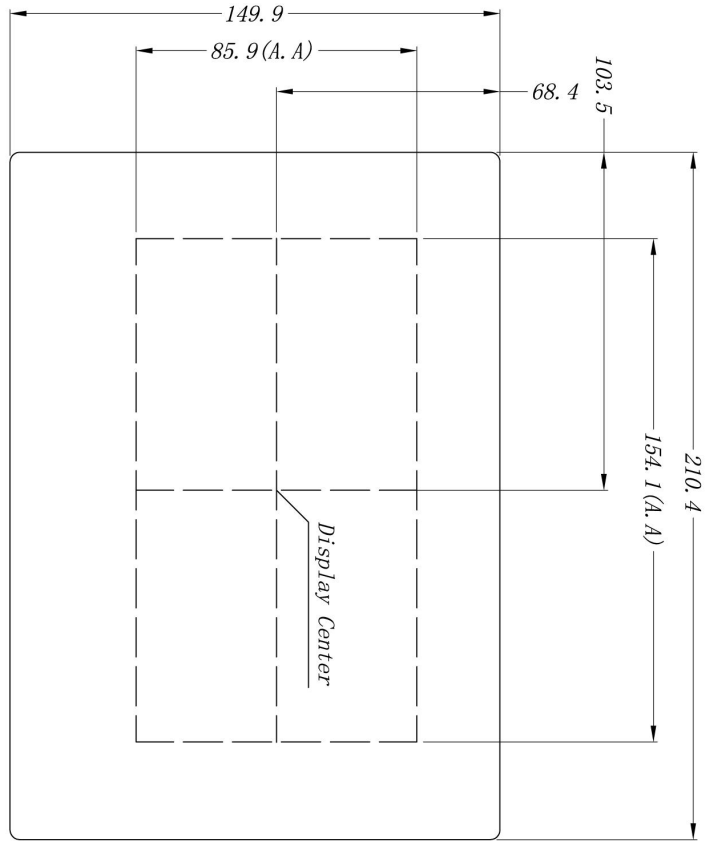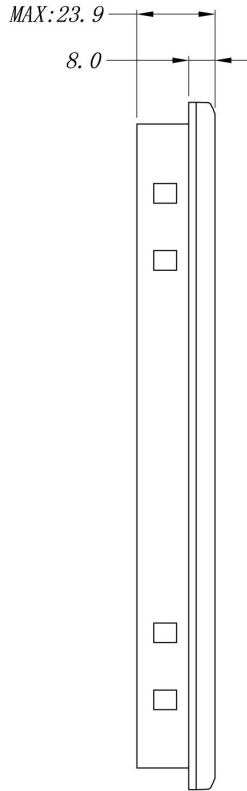
Location hole is used as position reference

Unmarked Tolerance is +/-0.3mm

Active area is marked in Dash lines

Model			HDW070_003L	
Drawing	A 4	Drawn	DWIN	Date
Scale		Review	Date	
Unit	MM	Approva	Date	

Beijing DWIN Technolology Co.,Ltd

Revision Records

Version	Revise date	Content	Editor
00	2023-07-19	First Edition	Kaya
01	2024-04-12	Add Important Disclaimer	YML

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Customer service Tel: +86-400-018-9008

Customer service E-mail: dwinhmi@dwin.com.cn

Website: www.dwin-global.com

DWIN Developer Forum: https://forums.dwin-global.com/index.php/forums

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

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