# HDW050\_003L

## 5.0 Inch, 800xRGBx480, 16.7M Colors, TN screen, Capacitive touch



Professional, Creditable, Successful

**Display** 

DWIN

ltem	Parameter	Description
Color	65K (665536) colors	16 bit color 5R6G5B
Panel Type	TN	TN TFT LCM , normal viewing angle
Viewing Angle	70/70/50/70(L/R/U/D)	-
Active Area(A.A.)	108.60 mm (W)x65.40mm (H)	800x480
View Area(V.A.)	108.60 mm (W)x65.40mm (H)	800x480
Resolution	800*480	-
Backlight	LED	-
Brightness	250nit	-

Note: Displaying of high-contrast still images for more than 30 minutes may result in residual images. Please add screen saver to avoid this problem.

#### Voltage & Current

	-										
ltem	Conditions	Min	Тур	Мах	Unit						
Power Voltage	-	3.6	5.0	6.0	V						
	VCC = +5V, Backlight on	-	320	-	mA						
Operation Current	VCC = +5V, Backlight off	- 20	120	-	mA						
Recommended power supply: 5V 1A DC											

#### **Reliability Test**

ltem	Conditions	Min	Тур	Мах	Unit
Working Temperature	60%RH at 5V voltage	-20	25	70	°C
Storage Temperature	- 103	-30	25	80	°C
Working Humidity	25°C	10%	60%	90%	RH
Protective Paint		-	None	-	-
nterface	10				

#### Interface

ltem	Description
Socket	3Pin_2.54mm FCC Socket(Power interface), HDMI interface
USB Interface	Yes
SD Card Slot	None

#### **Peripheral**

Peripheral	
Peripheral	Capacitive touch panel

#### • Packing Capacity & Dimension

Professional, Creditable, Successful

Dimension	143.51(W)*80.90(H)*17.60(T) mm				
Net Weight	158g				
Packing Capacity					
Model	Size	Layer	Quantity/Layer	Quantity(Pcs)	
Carton1:	220mm(L)*160mm(W)*47mm (H)	1	1	1	
Carton2:	250mm(L)*200mm(W)*80mm (H)	2	2	4	
Carton3:	320mm(L)*270mm(W)*80mm (H)	2	3	6	
Carton4:	450mm(L)*350mm(W)*300mm(H)	-	-	×-	
Carton5:	600mm(L)*450mm(W)*300mm(H)	2	60	120	
	Kechnologies	(echin	631000		

Pin10	Pin9	Pin8	Pin7	Pin6	Pin5	Pin4	Pin3	Pin2	Pin1	HDMI Name	GND	5V-EX	Definition	
THING (1) ANH	TMDS Data0-	TMDS Data0 Shield	TMDS Data0+	TMDS Data1-	TMDS Datal Shield	TMDS Data1+	TMDS Data2-	TMDS Data2 Shield	TMDS Data2+	HDMI Description	3	° –	Pin#	$\begin{array}{c} & 76.90 \\ \hline & 76.90 \\ \hline & 70.74 \\ \hline & 3.08 \\ \hline & 65.40 (V. A/A. A) \\ \hline & 0.48 \\ \hline \end{array}$
		Shield			Shield	,		Shield		iption	p	P	10	
	Pin19	Pin18	Pin17	Pin16	Pin15	Pinl4	Pin13	Pin12	Pin11	HDMI Name	Ni I	5V		
	Hot Plug Detect(All versions) and HEC Data+ (Optional, HDMI1.4+with Ethernet)	+5V Power(max 50mA)	DDC/CEC/HEC Ground	SDA(I2C Serial Data Line for DDC)	SCL(I2C Serial Clock for DDC)	HEC Data-(Optional, HDMI 1.4+with Ethernet)	CEC	TMDS Clock-	TMDS Clock Shield	HDMI Description	Ground	5V Power Supply	Description	143, 51 ± 0, 5 134, 37 121. 80 119. 25 Display Center Display Center
														-4.57 -6.28 -1.2.88 -1.2.88 -1.2.88 -1.2.88
Un	Sca		Draw	Moc										
	Scale 1	-		Mode1										
MM	Scale 1:1 Review		A A Dr											
MM	1:1	A 4	A A Drawn	Model HDW050-003L		Active	2. Utimat	9 Hereit	1. Locat					
MM Approval	1:1	A 4 DIAMIL U.Y Date				Active area is a	Z. UIMARKEG TOTE	O Humanical Tala	1.Location hole					
Unit MM Approval Date	1:1 Review	A 4 Drawn U. Y				Active area is marked in Dash lines	2. Unmarked loterance 18 +/-0. smm	o Haranda Talanna in	1. Location hole is used as position reference.					

Record records

Ver	Revise Date	Content	Editor
00	2022-12-16	First Edition	Kaya
01	2024-01-03	HDMI interface IC scheme change	YML
02	2025-01-20	Modify voltage and current	Chen

Please contact us if you have any questions about the use of this document or our products, or if you would like to know the latest information about our products:

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!

### Important Disclaimer

DWIN reserves the right to make any changes to product designs without prior notice.

Customers should ensure strictly adhering to all the relevant standards and requirements during the product application process, including but not limited to functional safety, information security, and regulatory provisions. DWIN shall not bear any joint and several liability for any consequences that may arise from customers' adoption of DWIN products. In particular, for risks that may lead to significant property losses, environmental hazards, personal injury, or even death, especially in high-risk application areas such as military applications, flammable and explosive places, and life-saving medical equipment, customers should independently assess the risks and take corresponding preventive and protective measures. DWIN shall not bear any relevant responsibility.