HIGHNESS™

One of a kind

7.0" Industrial Grade Panel Mount Display

PM070WV001

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HIGHNESS MICROELECTRONICS LTD.

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1. Technical Specification

Screen Size	7" diagonal	
Active Area (H x V)	152.40 x 91.44 mm	
Resolution	800 x 480	
Aspect Ratio	4:3	
Pixel Pitch (H x V)	0.1905 x 0.1905 mm	
Color	16.2M	
Viewing Angle	65°/65°/50°/60°	
Luminance	300 cd/m^2 (Standard Model)	
	500~900 cd/m^2 (High Brightness Model)	
Contrast	500:1	
Response Time	50ms	
Operating Temperature	-20° to +70° C	
Storage Temperature	-20° to +70° C	
Input Interface	Options	HDMI
		HDMI, DVI & VGA
Power Input	12V DC	
Power Consumption	18 Watt	
Backlight Type	LED	
Backlight Life	30,000 hours	
Enclosure	Mild Steel / Aluminum	
Mounting	Front Mounting Back Mounting, VESA mount (Optional)	

2. Touch Screens (Optional)

2.1 Projected Capacitive Touchscreen

Touch Screen Type	Projected Capacitive
Interface	USB / I2C / UART
Input Method	Finger
Transparency	≥ 80% (± 3%)
Haze	< 3%
Surface Type	Antiglare
Operating Force	10-80 g
Durability	3,000,000 Touch at a Single Point
Hardness	> 3H
Capacitance	< 5 Nf
Supported OS	Windows, Linux & Android

2.2 Resistive Analog Touchscreen

Touch Screen Type	4/5 Wire Resistive
Interface	USB
Input Method	Stylus or Finger
Transparency	≥ 85% (± 3%)
Haze	< 3%
Surface Type	Antiglare
Operating Force	70-100 g
Durability	1,000,000 Touch at a Single Point
Hardness	> 3H
Supported OS	Windows & Linux

3. Enhancement Solutions (Optional)

3.1. Anti-Reflective / Anti-Glare / Anti-Finger-Print Coating

Particulars	Details
Reflection	0.57%
Transparency	92%
Haze	15%
Surface Hardness	3H

3.2. Surface Hardness Coating

Particulars	Details
Hardness	Upto 9H
Transparency	91.3%
Haze	0.2%
Water Resistance	60^{o}C, 90% RH
Heat Resistance	140^{o}C

3.3. Optical Bonding

Particulars	Details
Structure	Glass + Glass (Soda Lime Glass + TFT-LCD Module or Touch Screen + TFT-LCD Module)
Temperature	-40 to +85^{o}C
Humidity	0 to 95% RH
Transparency	91%
UV Resistance	UVA 340nm

3.4. EMI-MESH

Item		Value
Mesh Composition Base Material/ (Plated Deposit)		Copper
Openings/ inch		82
Wire Diameter		8µm
Surface Resistance		< 0.15Ω/m^2
H Field 1MHz		89
E 10 MHz		90
Plane Wave	100 MHz	84
	400 MHz	77
	1 GHz	62
	10 GHz	42

Model Numbers / Ordering Information

Model No.	Particulars	Details
PM070WV001	Base Model	-
PM070WV001-xx	Brightness	High Brightness
PM070WV001-xx-A	Input Interface	HDMI
PM070WV001-xx-B		HDMI, DVI & VGA Input
PM070WV001-xx-y-PT	Touch Screens	Projected Capacitive
PM070WV001-xx-y-RT		4 Wire Resistive Analog
PM070WV001-xx-y-5RT		5 Wire Resistive Analog
PM070WV001-xx-y-zz-AG/AR/AF	Enhancements	Anti-Reflective / Anti-Glare / Anti-Finger-Print Coating
PM070WV001-xx-y-zz-HF		Surface Hardness Coating
PM070WV001-xx-y-zz-OB		Optical Bonding
PM070WV001-xx-y-zz-##-E		EMI-MESH

(Manufacturer reserves the sole right to change the specifications without prior notice)
(Touch screen will reduce the original luminance of the LCD display)