HIGHNESS™

One of a kind

12.1" Industrial Grade Display

ID121XG001-HB

Release Date
21st May 2020

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1. Technical Specification

Screen Size	12.1" diagonal	
Active Area (H x V)	247.76 x 184.32 mm	
Resolution	1024 x 768	
Aspect Ratio	4:3	
Pixel Pitch (H x V)	0.24 x 0.24 mm	
Color	16.2M	
Viewing Angle	$80^o/80^o/80^o/80^o$	
Luminance	500 cd/m^2 (Standard Model)	
	500~900 cd/m^2 (High Brightness Model)	
Contrast	700:1	
Response Time	35ms	
Operating Temperature	-20^o to $+70^o$ C	
Storage Temperature	-20^o to $+70^o$ C	
Input Interface	Options	HDMI
		HDMI, DVI & VGA
Power Input	12V DC	
Power Consumption	26 Watt	
Backlight Type	LED	
Backlight Life	50,000 hours	
Enclosure	Mild Steel / Aluminum	
Mounting	VESA standard	

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

Model Numbers / Ordering Information

Model No.	Particulars	Details
ID121XG001-HB	Brightness	High Brightness
ID121XG001-HB-A	Input Interface	HDMI
ID121XG001-HB-B		HDMI, DVI & VGA Input
ID121XG001-HB-y-PT	Touch Screens	Projected Capacitive
ID121XG001-HB-y-RT		4 Wire Resistive Analog
ID121XG001-HB-y-5RT		5 Wire Resistive Analog
ID121XG001-HB-y-zz-AG/AR/AF	Enhancements	Anti-Reflective / Anti-Glare / Anti-Finger-Print Coating
ID121XG001-HB-y-zz-HF		Surface Hardness Coating
ID121XG001-HB-y-zz-OB		Optical Bonding