



**HIGHNESS™**

*One of a kind*

18.5" Industrial Grade Display

**ID185HD001**



Release Date  
21<sup>st</sup> May 2020

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**HIGHNESS MICROELECTRONICS PVT. LTD**

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# 1. Technical Specification

Screen Size	18.5" diagonal	
Active Area (H x V)	409.8 x 230.04 mm	
Resolution	1366 x 768	
Aspect Ratio	16:9	
Pixel Pitch (H x V)	300 x 300 $\mu$ m	
Color	16.7M	
Viewing Angle	85°/85°/80°/80°	
Luminance	250 cd/m <sup>2</sup> (Standard Model)	
	500~900 cd/m <sup>2</sup> (High Brightness Model)	
Contrast	1000:1	
Response Time	5ms	
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	32 Watt	
Backlight Type	LED	
Backlight Life	30,000 hours	
Enclosure	Mild Steel / Aluminum	
Mounting	VESA standard / Wall Mount	

## 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°C, 90% RH
Heat Resistance	140°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°C
Humidity	0 to 95% RH
Transparency	91%
UV Resistance	UVA 340nm

## Model Numbers / Ordering Information

Model No.	Particulars	Details
ID185HD001	Base Model	-
ID185HD001-xx	Brightness	High Brightness
ID185HD001-xx-A	Input Interface	HDMI
ID185HD001-xx-B		HDMI, DVI & VGA Input
ID185HD001-xx-y-PT	Touch Screens	Projected Capacitive
ID185HD001-xx-y-RT		4 Wire Resistive Analog
ID185HD001-xx-y-5RT		5 Wire Resistive Analog
ID185HD001-xx-y-zz-AG/AR/AF	Enhancements	Anti-Reflective / Anti-Glare / Anti-Finger-Print Coating
ID185HD001-xx-y-zz-HF		Surface Hardness Coating
ID185HD001-xx-y-zz-OB		Optical Bonding

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