

# PI-DK185

## Premio 18.5" Industrial Display Kit

Premio PI-DK series are a family of wide operating temperature industrial grade LCD display kits with sizes ranging from 7" to 24" and come with or without touch screen integrated. It also comes with the service options of high brightness and optical bonding for harsh / outdoor environment applications.

### FEATURES

- 18.5" LCD with 1366 x 768 HD or 1920 x 1080 FHD resolution
- Wide operating temperature support
- Touch option: non-touch or 10 points Projected Capacitive multi-touch options
- LVDS interface
- LED driver board built in
- Touch screen/touch controller included
- Optional A/D kit, LVDS/backlight cables, key pad, power supply
- Optional optical bonding service



### SPECIFICATIONS

LCD		
Screen Size	18.5"	18.5"
Resolution	1366 x 768 HD	1920 x 1080 FHD
Display Active area	409.8 mm x 230.4 mm	408.96 mm x 230.04 mm
Colors	16.7M	16.7M
Backlight Unit	LED	LED
Brightness	300 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>
Contrast Ratio	1000:1	1000:1
Response Time	5 ms	20ms
Viewing Angle	170/160	178/178
Signal Interface	LVDS	LVDS
Power Consumption	18.2W	16.5W
Dimension	430.37 mm x 254.6 mm x 10.5 mm	430.4 mm x 254.6 mm x 12 mm
Weight	1445 g (typ.)	1200 g (typ.)
Touch		
Touch options	non-touch Projected Capacitive Multi-touch (PCAP)	non-touch Projected Capacitive Multi-touch (PCAP)
Surface Hardness	≥ 3H (non-touch); ≥ 6H (PCAP touch)	≥ 3H (non-touch); ≥ 6H (PCAP touch)
Transparency	≥ 80%	≥ 80%
Environment		
Operating Environment	Non-touch: 0 °C ~ 60 °C PCAP touch: 0 °C ~ 60 °C Humidity 20% RH ~ 80% RH (Non Condensing)	Non-touch: -20 °C ~ 70 °C PCAP touch: -20 °C ~ 70 °C Humidity 20% RH ~ 80% RH (Non Condensing)
Storage Environment	Non-touch: -20 °C ~ 60 °C PCAP touch: -20 °C ~ 60 °C Humidity 10% RH ~ 90% RH (Non Condensing)	Non-touch: -20 °C ~ 70 °C PCAP touch: -20 °C ~ 70 °C Humidity 10% RH ~ 90% RH (Non Condensing)
Warranty		
Warranty	2 year standard warranty	

### CONTROLLER PINOUT

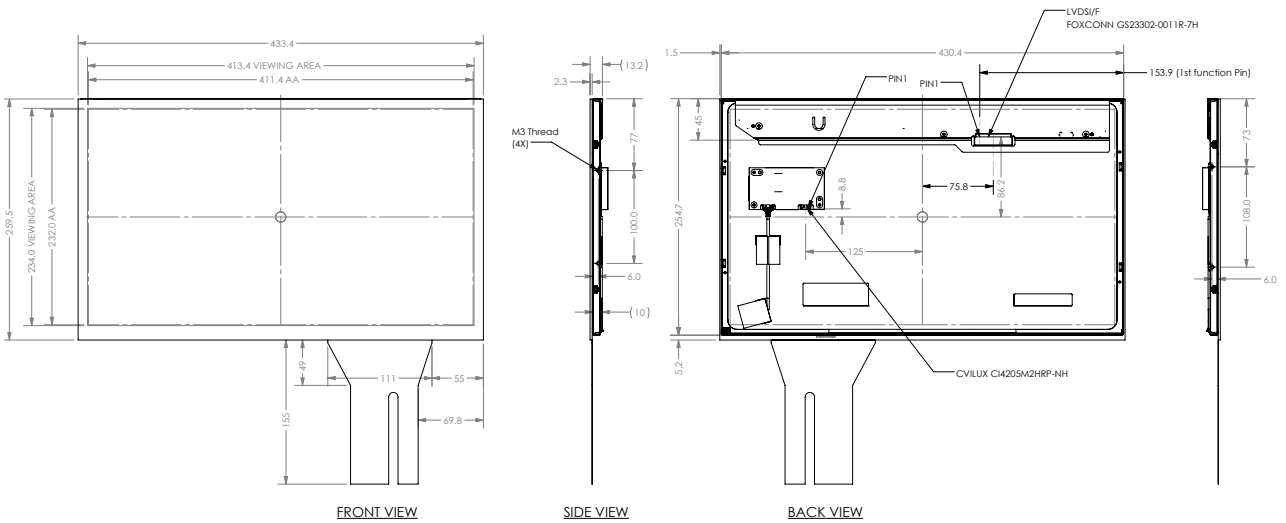
Projected Capacitive Touch Pinout	
J1	Pin 1: GND, Pin 2-79: RX77-RX0, Pin 80: GND
J2	Pin 1: GND, Pin 2-3: NA, Pin 4-49: TX45-TX0, Pin 50: GND
J3	Pin 1: VDD, Pin 2: USB_D-, Pin3: USB_D+, Pin 4-5: GND



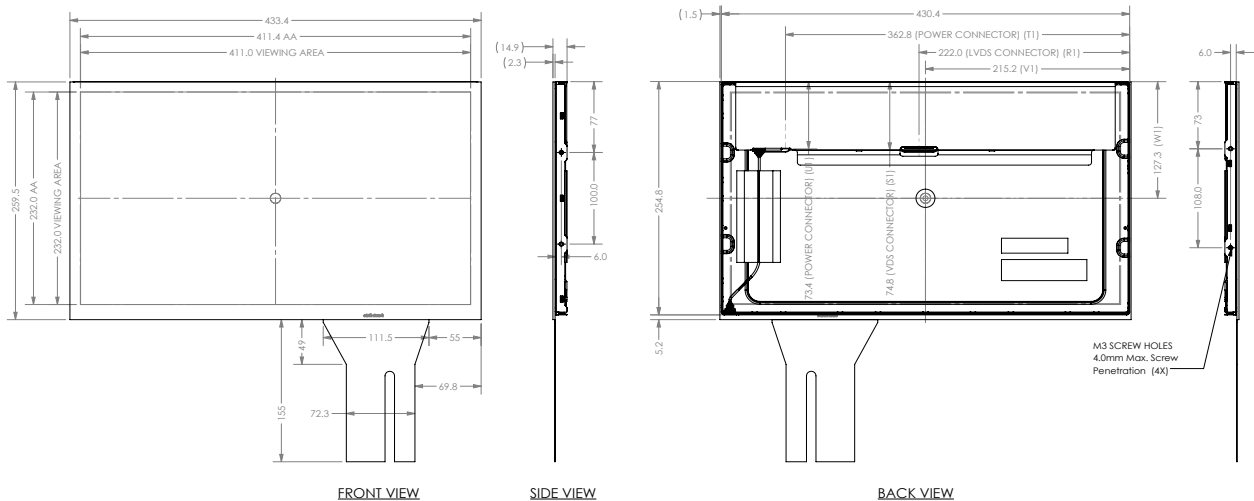
## DIMENSIONS

Unit: mm

PI-DK185P30HD01



PI-DK185P35FH01



## AVAILABLE MODELS

MODEL NO.	DESCRIPTION
PI-DK185N30HD01	18.5" 1366x768, 300nits, 0~60C, Non-Touch Industrial Display Kit
PI-DK185P30HD01	18.5" 1366x768, 300nits, 0~60C, Projected Capacitive Touch Display Kit
PI-DK185N35FH01	18.5" 1920x1080, 350nits, -20~70C, Non-Touch Industrial Display Kit
PI-DK185P35FH01	18.5" 1920x1080, 350nits, -20~70C, Projected Capacitive Touch Display Kit

## PACKING LIST

- 1 x 18.5" LCD Display Kit
- 1 x Touch Controller
- 1 x USB Cable (touch interface)

## OPTIONAL BUY

MODEL NO.	DESCRIPTION
PSPKIT008	A/D Kit for PI-DK185, 1366 x 768 HD. A/D board with -20 °C ~ 70 °C wide operating temp, VGA + DVI + HDMI Interface, no audio. OSD, LVDS/BL cables included.
PSPKIT009	A/D Kit for PI-DK185, 1920 x 1080 FHD. A/D board with -20 °C ~ 70 °C wide operating temp, VGA + DVI + HDMI Interface, no audio. OSD, LVDS/BL cables included.
PSPPOW003	12V, 60W Power Supply