

# 48cm / 19" Touch Monitor

## 190PCSM, 190PCSM-F (upgraded to 190PMSM) Data Sheet

# PALAS

ISO9001-2015; ISO14001-2015

Model	190PMSM (earlier 190PCSM) 190PMSM-F (earlier 190PCSM-F)
Display Size	48cm (19")
Front Bezel	Metal Bezel
<b>Touch Screen Monitor</b>	
Touch Screen	Capacitive Multi-Touch (10 touch)
Input Method	Finger, Thin Gloves, Smart Pen
Touch Response Time	Less Than 12 ms
Accuracy	Within 1% of True Position
Surface Finish	Non-Active Cover Glass. No Wear Mechanism. Anti-Reflective
Surface Obstruction	Not Affected By Surface Contaminants Like Dust, Grease, Moisture, Liquids, Paan Stains. Resistant To Most Corrosives
Format	4:3
Display Area (mm)	376 x 302
Pixel Pitch	0.294
Brightness (cd/m <sup>2</sup> )	Standard 250. Optional Up To 2000
Resolution	1280x1024
Colours	16.7m / Contrast >800:1
Viewing Angle	H160, V160

### Others

Operating Temp	Standard 0 - 60° C; Optional 0 - 70° C
Relative Humidity	85% Non-Condensing
Environment	Can Be Sanitised By Wiping With Alcohol. Front Face Protected From Sprays Of Water. Optional Up To IP67.
Power / Connectors	12VDC / 220VAC
Display connectors	HDMI
Touch connectors	Serial RS232 (optional USB)
Power (W)	<100
Warranty	Standard 3 Years, Carry-In. Optional Up To 5 Years
Certification	As per BIS 13252 / IEC 60950;
Country of Origin (COO)	Made in India

### PALAS Multi-Touch Monitors (PM series)

Palas Multi Touch Monitors, based on Projected Capacitive touch technology, offer fast, accurate touch, and up to 40 finger simultaneous touch on some larger models

Unique metal frame PCs for use in harsh environments. Rugged design. Easy mounting through VESA mounts. Smooth, easy-glide surface coating. Anti-reflective.




Palas manufactures in India:

- Touchscreen monitors, Touch All-in-ones
  - Industrial Touch Panel PCs, Rugged touch systems
  - Smart Card Readers for ATMs, Kiosks, Vending
  - Interactive Digital Signage Systems for Malls, Factories, Buildings
  - Self-service kiosks for restaurants
  - Smart City Information & Transaction kiosks
- With technical assistance for many products from 3M, USA or Sankyo, Japan

Palas also offers a range of low-cost software applications for touch, that can be quickly deployed by customers


Palas is an IIT / IIM alumnus enterprise

**Made in India  
By an MSME**

 /PalasSoftware



06/23

 /user/palassoftware1



## PALAS Software Pvt Ltd.

S-74 Okhla Industrial Area Phase 2, New Delhi 110020 INDIA

Web: <http://www.palas-india.com>

Landline: +91-11-41708030 to 37; Mobile: +91-9811001546 to 52; WhatsApp: +91-98110 01546 Email: [sales@palas-india.com](mailto:sales@palas-india.com)

For more information, as many of us are now working from home, contact any of:

North: 80950-48512; 98110-01546 / 47 / 50 / 52; 98110-67817; South: 98110-01546 / 01548 West: 98110-01546, 9811067817