



The TPM-A22FP is a Flat Panel 21.5" Full HD Projected Multi-Touch Display with AG coating

**Part number:** TPM-A22FP

## Features

- 21.5" Full HD Industrial Display
- Multi-Touch Display (P-CAP)
- Either Real side OSD or OSD Remote control by option RJ-11 cable
- Front Panel IP65
- Flat Panel Design
- VGA/DVI-D input
- DC 12V input with Adapter
- AG coating
  - With Increased Transmittance
  - Reduce Sparkle Effectively with Fine Particles
- Option for Bottom Side Protective Rubber Bar

## LCD

### LCD Size / Type?

- 21.5" diagonal TFT Active Matrix Panel

### Max. Resolution?

- 1920 x1080

### Display Model?

- VGA 720 X 400 (70 Hz)
- VGA 640 X 480 (60/66/70/72/75 Hz)
- SVGA 800 X 600 (60/70/72/75 Hz)
- XGA 1024 X 768 (60/70/75 Hz)
- SXGA 1280 X 1024 (60/70/75 Hz)
- WXGA+1440 X 900 (60/75 Hz)
- WSXGA 1680 X 1050 (60Hz)

\* All product specifications are subject to change without notice

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- 1920 X 1080 (60Hz)

#### **Max. Color?**

- 16.7M (6bits + A-FRC)

#### **Contrast Ratio??**

- 1000:1

#### **Brightness**

- (Without Touch) 250 nits (typical)
- (Projected Capacitive) 225 nits (typical)?

#### **Response Time?**

- 14ms (typical)

#### **Viewing Angle??**

- 8 ms (typical)

#### **Viewing Angle?**

- Horizontal 178? (typical), Vertical 178? (typical)

#### **Pixel Pitch?**

- 0.24795 (H) X 0.24795 (V) mm

## **Touch Screen**

#### **Active Area**

- 476.064 (H) X 267.786 (V) mm

#### **Touch Technology?**

- 10 Points Projected Capacitive

#### **Touch Interface?**

- USB (Type-B)

## **System?**

#### **Video Signal Input?**

- D-sub 15 pin Female (Analog) x 1 for VGA,DVI-D x 1

#### **Video Input Frequency?**

- 31.47kHz ~ 82.3kHz / 56Hz ~ 75Hz (Horizontal / Vertical)

#### **I/O?**

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- VGA x 1
- DVI-D x 1
- RJ-11 x 1
- USB Type-B x 1
- DC-IN x 1

### **OSD Keys**

- Control Key Power On/O?, Select, Down, Up, Menu

### **OSD Option??**

- Contrast, Brightness
- Auto Adjust, Left/ Right, Down / Up
- Horizontal Size, Fine
- OSD Left / Right, OSD Down / Up
- OSD Timeout, Factory Reset, Language, RGB

### **OSD Remote Control?**

- Supported by option RJ-11 control cable

### **OS support?**

- Windows® 7
- Windows® 8.1
- Windows® 10 WES7, WES8,
- Windows® 10 IOT
- Linux

### **Plug & Play??**

- DDC 2B Compatible

### **Power??? Consumption?**

- Operating: 27W (typical)
- Sleep: 2W
- O?: 1W

### **Power Supply??**

- DC 12V, 4.16A

## **Mechanical**

### **Case Colour?**

- Black

### **Dimensions?**

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- 517.4mm (W) X 313.3mm (H) X 46.0mm (D)

#### **?Net Weight (Approx.)?**

- 4.4 kg (w/o stand)??

#### **Shipping Weight (Approx.)?**

- 6.8 kg (w/o stand)

#### **Mounting Option?**

- 100 mm X 100 mm VESA Mount

## **Environment**

#### **Operating Temperature**

- Operating: 0°C ~ +40°C
- Storage: -20°C ~ +60°C

#### **Humidity?**

- Operating: 20% ~ 80% (Non-condensing)
- Storage: 10% ~ 90% (Non-condensing)

#### **Anti-Vibration**

- 1 g rms/ 5~ 500Hz/ operation

#### **Anti-Shock**

- 30G-peak acceleration for 2 milliseconds duration in each of the three axes

#### **Safety**

- USA UL/cUL
- Germany TUV (Bauart Mark)
- Europe CE Mark
- Low-Voltage Directive (2014/35/EU)

#### **MTBF**

- 50,000 HRs
- Primary test/preset mode under ambient temperature of 25°C

#### **EMC**

- USA FCC Class B
- Europe CE Mark
- Electromagnetic Compatibility (2014/30/EU)
- EMC Emission EN 55032 Class B
- Harmonics EN 61000-3-2

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- Fluctuation/Flicks EN 61000-3-3
- EMC Immunity EN 55024 / EN 61000-6-1  
including as below:
  - EN 61000-4-2 ESD
  - EN 61000-4-3 RS?
  - EN 61000-4-4 EFT
  - EN 61000-4-5 Surge
  - EN 61000-4-6 CS
  - EN 61000-4-8 Power Frequency Magnetic Field
  - EN 61000-4-11 Voltage Dips / Voltage Interruptions

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