

# RUGGEDIZED LCD DISPLAY

15" Rugged Full IP65 Dust/Water Resistant Protection  
1024x768, 250nits with Projected Capacitive  
Multi-Touch (P-CAP)

**MODEL: WRD1500P-TFP**

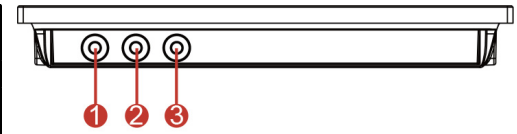
## PRODUCT FEATURES:

- 15" 1024 x768 Resolution
- Projected Capacitive Multi-Touch (P-Cap)
- Front IP65 Water and Dust Proof
- VGA input and variety of optional connectors
- USB port for touch
- Stylish and elegant design

## PRODUCT SPECIFICATIONS:

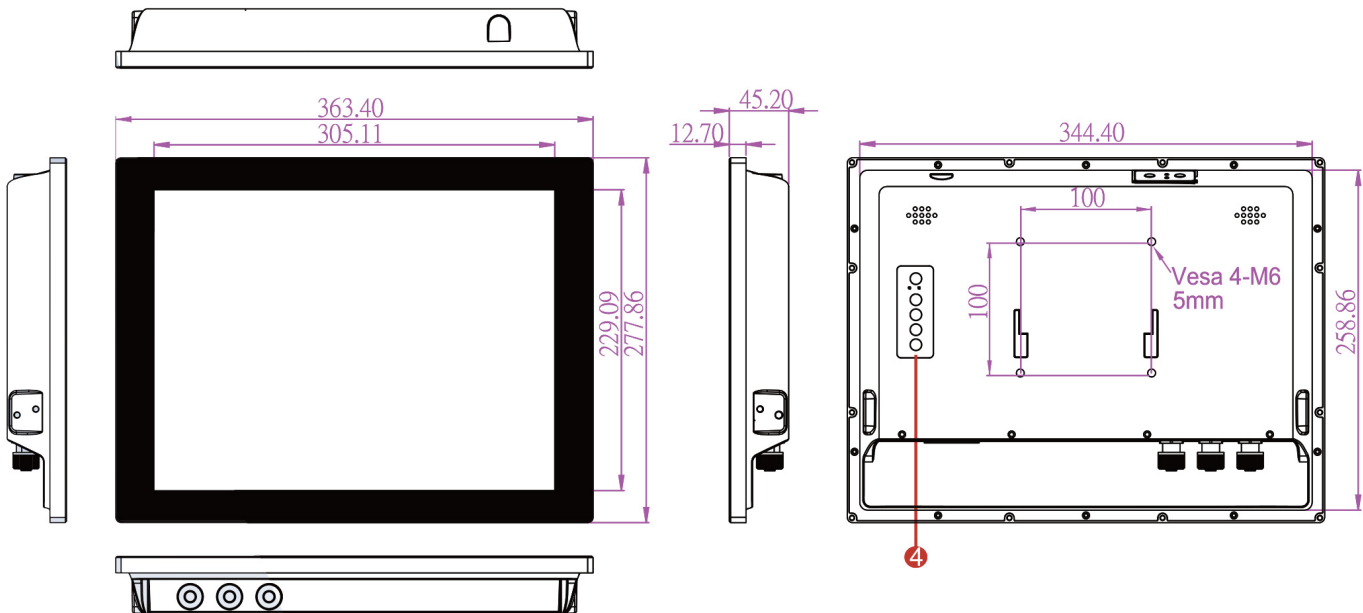
<b>Panel Size</b>	15" TFT
<b>Resolutions</b>	1024x768
<b>Brightness(cd/m2)</b>	250 cd/m <sup>2</sup> (typ.) Optional for High Brightness 1000 cd/m <sup>2</sup> (typ.)
<b>Contrast Ratio</b>	700:1 (typ.)
<b>Viewing Angle</b>	-88~88 (H); -88~88 (V)
<b>Active Display Area(mm)</b>	304.1 (H) x 228.1 (V)
<b>Pixel Pitch(mm)</b>	0.297 (H)x0.297(V)
<b>Synchronization Range_ Horizontal / Vertical</b>	31.5~46.9KHz / 60~75Hz
<b>Recommended Resolution</b>	1
<b>Viewing Angle(CR&gt;=10)</b>	-80~80 (H); -70~70 (V)
<b>Power Source</b>	9~36V DC (M12 type)
<b>Power Consumption</b>	20 W typical, normal operation
<b>Power Management</b>	VESA DPMS Compliant
<b>Plug &amp; Play</b>	Yes
<b>Input Ports</b>	1 x VGA, 1 x USB for Touch
<b>Touch Screen</b>	Projective Capacitive Touch(USB) (optional protection glass)
<b>Operating Temperature</b>	-15°C~55°C
<b>Storage Temperature</b>	-30°C~70°C
<b>Operating Humidity</b>	10%~95% (non-condensing)
<b>IP Rating</b>	Full IP65
<b>Shock Operating</b>	30g for 18ms, 300m/s Shock Operating 2
<b>Vibration Operating</b>	1.60/1.96/2.18 g rms for XYZ/ 5-500Hz
<b>Certifications &amp; Standards</b>	Compliant with MIL-STD-810F/G for vibration / shock, CE, FCC

## I/O VIEW:

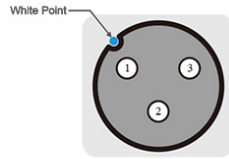
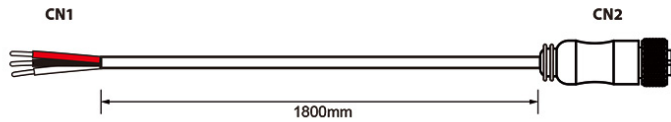


1. 9~36V DC (M12 type)
2. VGA (M12 type)
3. USB For Touch(M12 type), only with Touch
4. OSD Power

## MECHANICAL DRAWING:

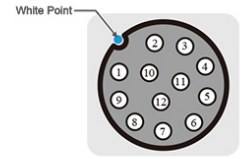
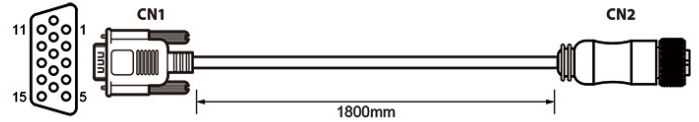


## M12 Power Cable



Pin No.	Symbols	Color		Pin No.	Symbols	Color
CN1-1	VCC+	Red	↔	CN2-1	VCC+	Red
CN1-2	GND	Black	↔	CN2-2	GND	Black
CN1-3	VCC-	White	↔	CN2-3	VCC-	White

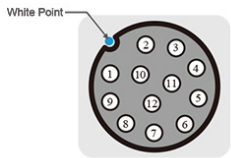
## VGA Cable



Pin No.	Symbols	Color		Pin No.	Symbols	Color
CN1-1	R	Red	↔	CN2-1	R	Red
CN1-6	R-GND	Black	↔	CN2-2	R-GND	Black
CN1-5	G	Green	↔	CN2-3	G	Green
CN1-7	G-GND	Black	↔	CN2-4	G-GND	Black
CN1-3	B	Blue	↔	CN2-5	B	Blue
CN1-8	B-GND	Black	↔	CN2-6	B-GND	Black
CN1-12	SDA	Yellow	↔	CN2-7	SDA	Yellow
CN1-13	HS	Orange	↔	CN2-8	HS	Orange
CN1-14	VS	White	↔	CN2-9	VS	White
CN1-15	SCL	Brown	↔	CN2-10	SCL	Brown

} coaxial  
} coaxial  
} coaxial

## USB for Touch Cable



Pin No.	Symbols	Color		Pin No.	Symbols	Color
CN1-2	VCC	Red	↔	CN2-1	VCC	Red
CN1-3	D-	White	↔	CN2-2	D-	White
CN1-4	D+	Green	↔	CN2-3	D+	Green
CN1-5	GND	Black	↔	CN2-4	GND	Black
CN1-9	GND	Black	↔	CN2 Shell	Black	

} twisted pairs