

**UW Series: Sunlight  
Readable Full IP65  
Multi Touch Panel PC**

*360° protection against  
intrusion of dust, water, oil, or  
corrosive materials &  
permanent readability in any lighting situation*



Features

- IP65 compliant 6-sided stainless steel chassis
- IP65 waterproof stainless steel connectors
- IP65 rated external power adapter (alternative)
- Up to 1600-nit high brightness LED-backlit LCD panel



# UW Series Sunlight Readable Full IP65 Multi Touch Panel PC

## Challenges

In many cases, the system may be deployed in harsh environments at the risk of the intrusion of water, oil, dust or corrosive materials into the inside of the device. How to prevent it is an important consideration when purchasing an automation system. If unfortunately the system has to be installed under direct sunlight or any strong light source, the readability on the screen is another factor to create a friendly and efficient operation interface.



-  **Waterproof**
-  **Dustproof**
-  **Anti-oil**
-  **Corrosion-proof**
-  **Sunlight Readable**

## Solutions

Kingdy's UW Series is the very sunlight readable full IP65 multi touch panel PC featuring the following protection designs and designed for sophisticated human-machine interaction in the most intuitive way.

- **Dustproof / Waterproof full IP65 chassis, connector and power adaptor** not only to prevent dust and water from invading the inner sensitive components but also to allow the device to be washed down
- **Corrosion-proof and anti-oil stainless steel chassis** not only to prevent corrosion generated by acid, alkali or salt but also to facilitate cleaning and maintenance
- **Up to 1600-nit high brightness LED-backlit LCD panel** to emit more light than normal commercial grade to keep excellent readability on the screen under direct sunlight or any strong light source

## Collections

Series Number	CPU	Performance		Structure		Panel Size									
		CPU	Power Efficiency	Fan	External Heat Sink	4:3			16:9						
						8.4"	10.4"	12.1"	15"	17"	19"	15.6"	17.3"	18.5"	21.5"
UW-2L	Intel D2550	★★	🍃🍃	Fanless	No				V	V	V				V
UW-7L	Intel N2800	★★	🍃🍃	Fanless	No				V	V	V				V
UW-8L	Intel N2600	★★	🍃🍃	Fanless	No				V	V	V				V
UW-9L	AMD T40N	★★	🍃🍃	Fanless	No				V	V	V				V
UW-BL	AMD T56N	★★	🍃🍃	Fanless	No				V	V	V				V
UW-EN	Intel J1900	★★★	🍃🍃🍃	Fanless	No				V	V	V				V
UW-FN	Intel E3845	★★★	🍃🍃🍃	Fanless	No				V	V	V				V
UW-GN	Intel i7/i3/Celeron	★★★	🍃🍃🍃	Fanless	Yes				V	V	V				V



Foodstuff, Pharmaceuticals



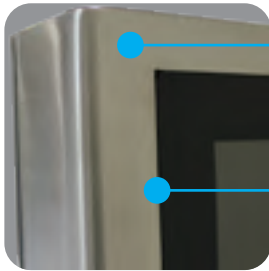
Military



Petroleum, Chemistry, Petrochemistry

## Applications

# UW Series Sunlight Readable Full IP65 Multi Touch Panel PC



- IP65 compliant 6-sided sealed stainless steel chassis  
*to prevent liquid / dust from getting into the housing and to resist acid- / alkali-based cleaning agents from corroding the device*
- Seamless flat-bezel design between chassis and panel  
*to decrease water / dust accumulation and to facilitate cleaning / maintenance*



- IP65 waterproof stainless steel connectors  
*to prevent liquid from getting into the housing via the cable entry points*

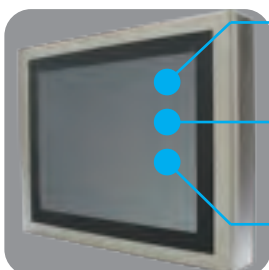
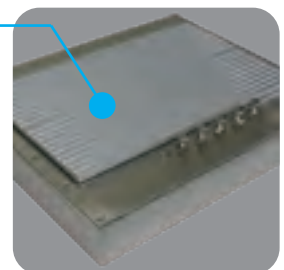


- IP65 rated external power adapter (alternative)  
*to prevent liquid from getting into the interior of the adapter from the junction of the shell*



- External heat sink (on the rear for UW-GN Series)  
*to faster dissipate the heat to keep excellent CPU performance*

- No external heat sink (for UW-2L / -7L / -8L / -9L / -BL / -EN / -FN Series)



- 7H hardness anti-scratch panel surface  
*to avoid touch function failure due to scratch*
- Oil- & water-stain-proof panel surface  
*to ensure touch sensitivity*
- Enhanced PCT touch panel  
*to enable input with glove which is necessary in some applications*



- RFID sensor (optional)  
*to enable RFID technology application, such as logistics, warehousing, distribution or industrial automation (identification of workpiece carriers on assembly lines, material flow control, identification of containers and other receptacles)*

# UW-EN Series (Intel J1900)



-  CPU Performance 
-  Energy Efficiency 
-  Touch Function 
-  Dissipation Design **Fanless, External heat sink**
-  Waterproof Design **IP65 chassis, IP65 connectors, IP65 power adaptor (alternative)**
-  Housing Design **Stainless steel**

<b>CPU</b>	Intel® Bay Trail D-J1900 2.0GHz Quad Core Processor (CPU OnBoard)
<b>Memory</b>	2 x 204-pin SODIMM Dual-channel DDR3L 1333 / 1066MHz up to 8 GB
<b>Power Supply</b>	Standard / IP65-rated DC in 12V or 19V ~ 24V external power adaptor
<b>I/O Ports (Default)</b>	2 x RS232, 2 x GLAN, 2 x USB, 3 x SATA socket
<b>I/O Ports (Optional)</b>	Any combination of up to 2 x RS232, 2 x RS232/422/485, 2 x GLAN, 6 x USB but totally no more than 6
<b>Expansion</b>	1 x Mini PCIe slot
<b>Operation Temperature</b>	0°C ~ 45°C
<b>Storage Temperature</b>	-10°C ~ 70°C
<b>Relative Humidity</b>	5% ~ 90% non-condensing
<b>OS Support</b>	Win 7 Pro, Embedded 7, Win 8 Pro, Embedded 8
<b>Installation</b>	VESA mount 100 x 100 mm
<b>External Heat Sink</b>	Yes (rear)
<b>Optional Items</b>	RFID sensor, Memory, Storage devices, WiFi, OS

Model Name	12V	UW-ENL15QF (4pt PCT) UW-ENL15RF (resist.)			UW-ENL17QF (4pt PCT) UW-ENL17RF (resist.)		UW-ENL19QF (4pt PCT) UW-ENL19RF (resist.)			UW-END21QF (4pt PCT) UW-END21ZF (10pt PCT)	
	19~24V	UW-ENL15QW (4pt PCT) UW-ENL15RW (resist.)			UW-ENL17QW (4pt PCT) UW-ENL17RW (resist.)		UW-ENL19QW (4pt PCT) UW-ENL19RW (resist.)			UW-END21QW (4pt PCT) UW-END21ZW (10pt PCT)	
Display	Size / Aspect Ratio	15" TFT (4:3)			17" TFT (4:3)		19" TFT (4:3)			21.5" TFT (16:9)	
	Backlight	LED			LED		LED			LED	
	Resolution	1024 x 768			1280 x 1024		1280 x 1024			1920 x 1080	
	Colors	16.7 M	16.7 M	16.7 M	16.7 M	16.7 M	16.7 M	16.7 M	16.7 M	16.7 M	16.7 M
	Luminance (cd/m <sup>2</sup> )	2000	1600	800	1600	800	1600	1000	800	1600	1200
	Contrast Ratio	700:1	700:1	700:1	1000:1	1000:1	1000:1	1000:1	1000:1	900:1	1100:1
	Viewing Angle (H/V°)	160/160	160/160	160/160	170/170	170/170	170/160	178/178	170/160	170/160	170/160
	MTBF (hrs)	70,000			4pt PCT / 5-wire resistive		70,000			70,000	
Touch Screen	4pt PCT / 5-wire resistive			470 x 390 x 67.1		4pt PCT / 5-wire resistive			4/10-point PCT		
Dimension (WxHxD+heatsink, mm)	438.2 x 335 x 63			15.5		521.4 x 434.4 x 67.1			607 x 401 x 67.1		
Weight (main unit + heatsink, kg)	11.5			Rear		16.5			18.5		
I/O Port's Location	Rear			Rear		Rear			Rear		





*Inspiring a reliable solution*



**INTEGRAL SYSTEM SAS**

36, rue Emile DECORPS | Pôle PIXEL – Bât 23

**Tél : 04 37 69 72 00**

[info@integral-system.fr](mailto:info@integral-system.fr)

[www.integral-system.fr](http://www.integral-system.fr)