

### 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



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.



# Vaterproof Dustproof Anti-oil **Corrosion-proof Sunlight Readable**

#### Solutions

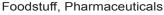
Kingdy's UW Series is the very sunlight readable full IP65 multi touch panel PC featuring the following protection designs and designed for sophisticated human-machine interaction in the most intuitive way.

- 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

Corioo	CPU	Performance		Structure		Panel Size									
Series Number		CPU	Power	, Fan	External	4:3 16:9			:9	9					
			Efficiency		Heat Sink	8.4"	10.4"	12.1"	15"	17"	19"	15.6"	17.3"	18.5"	21.5"
UW-2L	Intel D2550	**	111	Fanless	No				V	V	V				V
UW-7L	Intel N2800	$\star\star$	111	Fanless	No				V	V	V				V
UW-8L	Intel N2600	$\star\star$	111	Fanless	No				V	V	V				
UW-9L	AMD T40N	$\star\star$	111	Fanless	No				V	V	V				V
UW-BL	AMD T56N	$\star\star$	111	Fanless	No				V	V	V				V
UW-EN	Intel J1900	$\star\star\star$	111	Fanless	No				V	V	V				V
UW-FN	Intel E3845	$\star\star\star$	111	Fanless	No				V	V	V				V
UW-GN	Intel i7/i3/Celeron	$\star\star\star$	111	Fanless	Yes				V	V	V				V
UW-NN	Intel Core i3-6100U	$\star\star\star$	111	Fanless	Yes				V	V	V				V



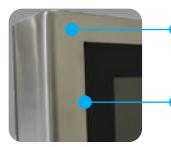


Petroleum, Chemistry, Petrochemistry



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



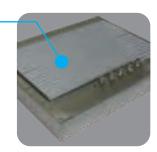
IP65 waterproof stainless steel connectors to prevent liquid from getting into the housing via the cable entry points



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-NN Series (Intel Corei5-6300U)



	CPU	6th Gen Intel® Core™ i5-6300U Dual Core, 3M Cache, 2.30GHz CPU
	Memory	2 x 204-pin SODIMM Dual-channel DDR3L 1333/1066MHz up to 16GB
	Power Supply	Standard / IP65-rated DC in 12V or 19V ~ 24V external power adaptor
	I/O Ports (Default)	2 x RS232, 2 x GLAN, 2 x USB, 3 x SATA socket
	I/O Ports (Optional)	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
_	Expansion	1 x Mini PCIe slot
	Operation Temperature	0°C ~ 45°C
	Storage Temperature	-10°C ~ 70°C
_	Relative Humidity	5% ~ 90% non-condensing
	OS Support	Win 7 Pro, Embedded 7, Win 8 Pro, Embedded 8
	Installation	VESA mount 100 x 100 mm
	External Heat Sink	Yes (rear)
	Optional Items	RFID sensor, Memory, Storage devices, WiFi, OS

Mada	12V			L15QF (4pt PC) NL15RF (resist	UW-NNL17QF (4pt PCT, 12V) UW-NNL17RF (resist., 12V)				
Mode	19~24V			I5QW (4pt PC] .15RW (resist.,	UW-NNL17QW (4pt PCT, 19~24V) UW-NNL17RW (resist., 19~24V)				
	Size / Aspect Ratio			15" TFT (4:3)	17" TFT (4:3)				
	Backlight			LED	LED				
	Resolution			1024 x 768	1280 x 1024				
	Colors	16.7 M	16.7 M	16.7 M	16.2 M	16.7 M	16.7 M	16.7 M	16.7 M
Display	Luminance (cd/m <sup>2</sup> )	2000	1600	1000	1000	800	1600	1000	800
	Contrast Ratio	700:1	700:1	1700:1	700:1	700:1	1000:1	1000:1	1000:1
	Viewing Angle (H/V°)	160/160	160/160	170/170	160/160	160/160	170/170	160/160	170/170
	MTBF (hrs)			70,000	70,000				
	Touch Screen		4pt P	CT / 5-wire re	4-point PCT / 5-wire resistive				
Dim. (W	x H x D+heatsink, mm)		438.	2 x 335 x 63 (	470 x 390 x 67.1 (+10)				
Wt. (main unit + heatsink, kg)				11.5 (+1)	15.5 (+1)				
I/O Port's Location				Rear	Rear				

Mada	12V		UW-NNL19QF UW-NNL19RF	UW-NND21QF (4pt PCT, 12V) UW-NND21ZF (10pt PCT, 12V)			
Mode	I Name 19~24V		UW-NNL19QW (4 UW-NNL19RW (	UW-NND21QW (4pt PCT, 19~24V) UW-NND21ZW (10pt PCT, 19~24V)			
	Size / Aspect Ratio		19" TF	21.5" TFT (16:9)			
	Backlight		LE	LED			
	Resolution		1280 :	1920 x 1080			
	Colors	16.7 M	16.7 M	16.7 M	16.7 M	16.7 M	16.7 M
Display	Luminance (cd/m <sup>2</sup> )	1600	1000	1000	800	1600	1200
	Contrast Ratio	1000:1	2000:1	1000:1	1000:1	900:1	1100:1
	Viewing Angle (H/V°)	170/160	178/178	160/170	170/160	170/160	170/160
	MTBF (hrs)		70,	70,000			
	Touch Screen		4pt PCT / 5-	4/10-point PCT			
Dim. (WxHxD+heatsink, mm)			521.4 x 434.4	607 x 401 x 67.1 (+10)			
Wt. (main unit + heatsink, kg)			16.5	18.5 (+1)			
I/C	O Port's Location		Re	Rear			



## Inspiring a reliable solution



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