

A photograph of industrial machinery, likely a conveyor belt system, with a large, silver-framed multi-touch monitor mounted on the side. The background is a mix of yellow and purple hues.

## Kingdy Industrial (Multi) Touch Monitor

A full range of solutions for a wide variety of industrial criteria including extreme temperature resistance or sunlight readable



# Kingdy Industrial (Multi) Touch Monitor

## Challenges

For PC-based automation system deployers preferring traditional standalone or client-server architecture for technical or economic reasons, an industrial rated touch monitor is an essential device to link up operators with the system. Radically different from commercial or residential applications, industrial environments are usually harsh, with hazards that can range from extreme temperatures, ambient light disturbance, water & dust intrusion, corrosion and oily & greasy contamination. The resistance to one or some of the above-mentioned factors should not be ignored when assessing whether a monitor can well work with the system.

## Solutions

In response to different environmental conditions, Kingdy develops a full range of solutions featuring one or some of the following characteristics and allowing entrepreneurs to easily select and deploy an appropriate monitor to address the challenge(s) they are facing.

- Wide operating temperature range
- Sunlight readability
- Full IP65 water-/dust-proofing
- 19" rack mountability

## Collections

Category	Series	Touch		Condition				Panel Size									
		Single	Multi	Std.	Sunlight Readable	Wide Temp.	Wide Temp. Sunlight Readable	4:3						16:9			
								8.4"	10.4"	12.1"	15"	17"	19"	15.6"	17.3"	21.5"	
Aluminum Bezel	SM	☉		★				V	V	V	V	V	V	V	V	V	V
	HM	☉			★				V	V	V	V	V				V
	DM	☉				★			V	V	V	V	V				
	LM	☉					★		V	V	V	V					
	TM		☉	★					V	V	V	V	V				V
	UM		☉		★				V	V	V	V	V				V
	EM		☉			★			V	V	V	V	V				
	VM		☉				★		V	V	V	V					
19" Rack mount Aluminum Bezel	RM	☉		★				V	V	V	V	V					
	GM	☉			★			V	V	V	V	V					
	FM	☉				★		V	V	V	V	V					
	BM	☉					★	V	V	V	V						
	AM		☉	★				V	V	V	V	V					
	CM		☉		★			V	V	V	V	V					
	KM		☉			★		V	V	V	V	V					
	QM		☉				★	V	V	V	V						
Full IP65 Stainless Steel Chassis	SA	☉		★							V	V	V				V
	HA	☉			★						V	V	V				V
	DA	☉				★					V	V	V				
	LA	☉					★				V	V					
	TA		☉	★							V	V	V				V
	UA		☉		★						V	V	V				V
	EA		☉			★					V	V	V				
	VA		☉				★				V	V					

# SA Series Full IP65 Monitor



Touch Function



Waterproof Design



Housing Design



OSD Controller



IP65 chassis, IP65 connectors,  
IP65 power adapter (alternative)

Stainless steel

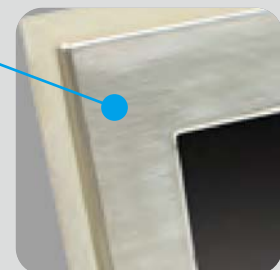
Rear side

Power Supply	Standard / IP65-rated DC in 12V (default) or DC in 19V ~ 36V (optional) external power adapter
I/O Ports (Default)	1 x VGA, 1 x USB or RS232 for resistive touch screen
Operation Temperature	0°C ~ 45°C
Storage Temperature	-10°C ~ 70°C
Relative Humidity	0% ~ 95% non-condensing
OS Support	Win 7 Pro, Embedded 7, Win XP Pro, Embedded XP
Installation	VESA mount 100 x 100 mm
Optional Items	None touch screen

Model Name	12V	SA-ZJL15RF	SA-ZJL17RF	SA-ZJL19RF	SA-ZJD21RF
	19~36V	SA-ZJL15RW	SA-ZJL17RW	SA-ZJL19RW	SA-ZJD19RW
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	16.2 M	16.7 M	16.7 M	16.7 M
	Luminance (cd/m <sup>2</sup> )	400	350	250	300
	Contrast Ratio	700:1	1000:1	1000:1	5000:1
	Viewing Angle (H/V°)	160/160	140/170	170/160	178/178
	MTBF (hrs)	50,000	50,000	50,000	50,000
Touch Screen	5-wire resistive	5-wire resistive	5-wire resistive	5-wire resistive	
Dimension (W x H x D, mm)		380 x 290 x 67	425 x 361 x 68	455 x 367.6 x 67	TBD
Weight (kg)		8	9	10	11
I/O port's position		Bottom	Rear	Rear	Rear
OSD Controller		Yes (rear)	Yes (rear)	Yes (rear)	Yes (rear)

## Highlights

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



SA / HA / DA / LA Series

# HA Series Sunlight Readable Full IP65 Monitor



Touch Function



IP65 chassis, IP65 connectors,  
IP65 power adapter (alternative)



Waterproof Design



Housing Design

Stainless steel



OSD Controller

Rear side



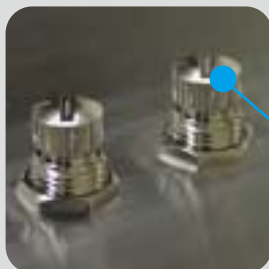
Sunlight Readable

Up to 1600 nit

Power Supply	Standard / IP65-rated DC in 12V (default) or DC in 19V ~ 36V (optional) external power adapter
I/O Ports (Default)	1 x VGA, 1 x USB or RS232 for resistive touch screen
Operation Temperature	0°C ~ 45°C
Storage Temperature	-10°C ~ 70°C
Relative Humidity	0% ~ 95% non-condensing
OS Support	Win 7 Pro, Embedded 7, Win XP Pro, Embedded XP
Installation	VESA mount 100 x 100 mm
Optional Items	None touch screen

Model Name	12V	HA-ZJL15RF			HA-ZJL17RF			HA-ZJL19RF			HA-ZJD21RF		
	19~36V	HA-ZJL15RW			HA-ZJL17RW			HA-ZJL19RW			HA-ZJD21RW		
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	16.2 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	16.7 M
	Luminance (cd/m <sup>2</sup> )	1600	1000	800	1600	1000	800	1600	1000	800	1600	1200	1000
	Contrast Ratio	700:1	700:1	700:1	1000:1	1000:1	1000:1	1000:1	1000:1	1000:1	900:1	1100:1	1000:1
	Viewing Angle (H/V°)	160/160	160/160	160/160	170/170	160/160	170/170	170/160	160/170	170/160	170/160	170/160	170/160
	MTBF (hrs)	70,000			70,000			70,000			70,000		
	Touch Screen	5-wire resistive			5-wire resistive			5-wire resistive			5-wire resistive		
Dimension (W x H x D, mm)	380 x 290 x 67			425 x 361 x 68			455 x 367.6 x 67			TBD			
Weight (kg)	8			9			10			11			
I/O port's position	Bottom			Rear			Rear			Rear			
OSD Controller	Yes (rear)			Yes (rear)			Yes (rear)			Yes (rear)			

## Highlights



IP65 waterproof stainless steel connectors

to prevent liquid from getting into the housing via the cable entry points

SA / HA / DA / LA / TA / UA / EA / VA Series

# DA Series Wide Temperature Full IP65 Monitor



Touch Function



IP65 chassis, IP65 connectors,  
IP65 power adapter (alternative)



Waterproof Design



Housing Design

Stainless steel



OSD Controller

Rear side



Heat/cold-resistant

-20°C ~ 55°C

**Power Supply** Standard / IP65-rated DC in 12V (default) or DC in 19V ~ 36V (optional) external power adapter

**I/O Ports (Default)** 1 x VGA, 1 x USB or RS232 for resistive touch screen

**Op. Temp. for Monitor** -20°C ~ 55°C

**Op. Temp. for Adapter** -20°C ~ 50°C

**Storage Temperature** -25°C ~ 70°C

**Relative Humidity** 0% ~ 95% non-condensing

**OS Support** Win 7 Pro, Embedded 7, Win XP Pro, Embedded XP

**Installation** VESA mount 100 x 100 mm

**Optional Items** None touch screen

Model Name	12V	DA-ZJL15RF	DA-ZJL17RF	DA-ZJL19RF
	19~36V	DA-ZJL15RW	DA-ZJL17RW	DA-ZJL19RW
Display	Size / Aspect Ratio	15" TFT (4:3)	17" TFT (4:3)	19" TFT (4:3)
	Backlight	LED	LED	LED
	Resolution	1024 x 768	1280 x 1024	1280 x 1024
	Colors	16.2 M	16.7 M	16.7 M
	Luminance (cd/m <sup>2</sup> )	400	350	350
	Contrast Ratio	700:1	1000:1	1000:1
	Viewing Angle (H/V°)	160/160	140/170	160/150
	MTBF (hrs)	50,000	50,000	50,000
Touch Screen	5-wire resistive	5-wire resistive	5-wire resistive	
Dimension (W x H x D, mm)	380 x 290 x 67	425 x 361 x 68	455 x 367.6 x 67	
Weight (kg)	8	9	10	
I/O port's position	Bottom	Rear	Rear	
OSD Controller	Yes (rear)	Yes (rear)	Yes (rear)	

## Highlights






IP65 rated external power adapter  
to prevent liquid from getting into the interior  
of the adapter from the junction of the shell



SA / HA / DA / LA / TA / UA / EA / VA Series

# LA Series Wide Temperature Sunlight Readable Full IP65 Monitor

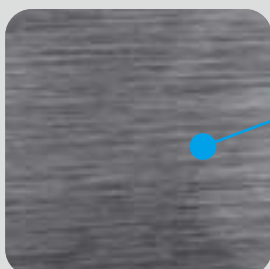


-  Touch Function
  -  Waterproof Design
  -  Housing Design
  -  OSD Controller
  -  Heat/cold-resistant
  -  Sunlight Readable
-  IP65 chassis, IP65 connectors, IP65 power adapter (alternative)
  - Stainless steel
  - Rear side
  - 20°C ~ 55°C
  - Up to 1600 nit

Power Supply	Standard / IP65-rated DC in 12V (default) or DC in 19V ~ 36V (optional) external power adapter
I/O Ports (Default)	1 x VGA, 1 x USB or RS232 for resistive touch screen
Op. Temp. for Monitor	-20°C ~ 55°C
Op. Temp. for Adapter	-20°C ~ 50°C
Storage Temperature	-25°C ~ 70°C
Relative Humidity	0% ~ 95% non-condensing
OS Support	Win 7 Pro, Embedded 7, Win XP Pro, Embedded XP
Installation	VESA mount 100 x 100 mm
Optional Items	None touch screen

Model Name	12V	LA-ZJL15RF			LA-ZJL17RF
	19~36V	LA-ZJL15RW			LA-ZJL17RW
Display	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	16.2 M	16.7 M	16.7 M
	Luminance (cd/m <sup>2</sup> )	1600	1000	800	1600
	Contrast Ratio	700:1	700:1	700:1	1000:1
	Viewing Angle (H/V°)	160/160	160/160	160/160	170/160
	MTBF (hrs)	70,000			70,000
Touch Screen	5-wire resistive			5-wire resistive	
Dimension (W x H x D, mm)	380 x 290 x 67			425 x 361 x 68	
Weight (kg)	8			9	
I/O port's position	Bottom			Rear	
OSD Controller	Yes (rear)			Yes (rear)	

## Highlights



Hairy brushed finish  
to deliver an aesthetic appearance

SA / HA / DA / LA / TA / UA / EA / VA Series

# TA Series Full IP65 Multi Touch Monitor



Touch Function



Waterproof Design



Housing Design



OSD Controller



IP65 chassis, IP65 connectors,  
IP65 power adapter (alternative)

Stainless steel

Rear side

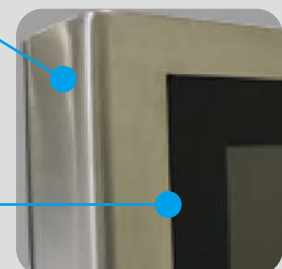
Power Supply	Standard / IP65-rated DC in 12V (default) or DC in 19V ~ 36V (optional) external power adapter
I/O Ports (Default)	1 x VGA, 1 x USB or RS232 for touch screen
Operation Temperature	0°C ~ 45°C
Storage Temperature	-10°C ~ 70°C
Relative Humidity	0% ~ 95% non-condensing
OS Support	Win 7 Pro, Embedded 7, Win XP Pro, Embedded XP
Installation	VESA mount 100 x 100 mm

Model Name	12V	TA-ZJL15QF (4pt PCT) TA-ZJL15RF (resistive)	TA-ZJL17QF (4pt PCT) TA-ZJL17RF (resistive)	TA-ZJL19QF (4pt PCT) TA-ZJL19RF (resistive)	TA-ZJD21QF (4pt PCT) TA-ZJD21ZF (10pt PCT)
	19~36V	TA-ZJL15QW (4pt PCT) TA-ZJL15RW (resistive)	TA-ZJL17QW (4pt PCT) TA-ZJL17RW (resistive)	TA-ZJL19QW (4pt PCT) TA-ZJL19RW (resistive)	TA-ZJD21QW (4pt PCT) TA-ZJD21ZW (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	16.2 M	16.7 M	16.7 M	16.7 M
	Luminance (cd/m <sup>2</sup> )	400	350	250	300
	Contrast Ratio	700:1	1000:1	1000:1	5000:1
	Viewing Angle (H/V°)	160/160	140/170	170/160	178/178
	MTBF (hrs)	50,000	50,000	50,000	50,000
Touch Screen	4pt PCT / 5-wire resistive	4pt PCT / 5-wire resistive	4pt PCT / 5-wire resistive	4/10pt PCT	
Dimension (W x H x D, mm)	438.2 x 335 x 63	470 x 390 x 67.1	521.4 x 434.4 x 67.1	607 x 401 x 67.1	
Weight (kg)	9	10	11	12	
I/O port's position	Rear	Rear	Rear	Rear	
OSD Controller	Yes (rear)	Yes (rear)	Yes (rear)	Yes (rear)	

## Highlights

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



TA / UA / EA / VA Series

# UA Series Sunlight Readable Full IP65 Multi Touch Monitor



Touch Function



IP65 chassis, IP65 connectors, IP65 power adapter (alternative)



Waterproof Design



Housing Design

Stainless steel



OSD Controller

Rear side



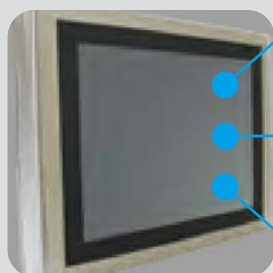
Sunlight Readable

Up to 1600 nit

Power Supply	Standard / IP65-rated DC in 12V (default) or DC in 19V ~ 36V (optional) external power adapter
I/O Ports (Default)	1 x VGA, 1 x USB or RS232 for PCT touch screen
Operation Temperature	0°C ~ 45°C
Storage Temperature	-10°C ~ 70°C
Relative Humidity	0% ~ 95% non-condensing
OS Support	Win 7 Pro, Embedded 7, Win XP Pro, Embedded XP
Installation	VESA mount 100 x 100 mm

Model Name	12V	UA-ZJL15QF (4pt PCT) UA-ZJL15RF (resistive)			UA-ZJL17QF (4pt PCT) UA-ZJL17RF (resistive)			UA-ZJL19QF (4pt PCT) UA-ZJL19RF (resistive)			UA-ZJD21QF (4pt PCT) UA-ZJD21ZF (10pt PCT)		
	19~36V	UA-ZJL15QW (4pt PCT) UA-ZJL15RW (resistive)			UA-ZJL17QW (4pt PCT) UA-ZJL17RW (resistive)			UA-ZJL19QW (4pt PCT) UA-ZJL19RW (resistive)			UA-ZJD21QW (4pt PCT) UA-ZJD21ZW (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	16.2 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	16.7 M
	Luminance (cd/m <sup>2</sup> )	1600	1000	800	1600	1000	800	1600	1000	800	1600	1200	1000
	Contrast Ratio	700:1	700:1	700:1	1000:1	1000:1	1000:1	1000:1	1000:1	1000:1	900:1	1100:1	1000:1
	Viewing Angle (H/V°)	160/160	160/160	160/160	170/170	160/160	170/170	170/160	160/170	170/160	170/160	170/160	170/160
	MTBF (hrs)	70,000			70,000			70,000			70,000		
	Touch Screen	4pt PCT / 5-wire resistive			4pt PCT / 5-wire resistive			4pt PCT / 5-wire resistive			4/10pt PCT		
Dimension (W x H x D, mm)	438.2 x 335 x 63			470 x 390 x 67.1			521.4 x 434.4 x 67.1			607 x 401 x 67.1			
Weight (kg)	9			10			11			12			
I/O port's position	Rear			Rear			Rear			Rear			
OSD Controller	Yes (rear)			Yes (rear)			Yes (rear)			Yes (rear)			

## Highlights



TA / UA / EA / VA 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 such as semiconductor / panel clean room, PCB or metal processing



# EA Series Wide Temperature Full IP65 Multi Touch Monitor



Touch Function



IP65 chassis, IP65 connectors, IP65 power adapter (alternative)



Waterproof Design



Housing Design

Stainless steel



OSD Controller

Rear side



Heat/cold-resistant

-20°C ~ 55°C

**Power Supply** Standard / IP65-rated DC in 12V (default) or DC in 19V ~ 36V (optional) external power adapter

**I/O Ports (Default)** 1 x VGA, 1 x USB or RS232 for PCT touch screen

**Op. Temp. for Monitor** -20°C ~ 55°C

**Op. Temp. for Adapter** -20°C ~ 50°C

**Storage Temperature** -25°C ~ 70°C

**Relative Humidity** 0% ~ 95% non-condensing

**OS Support** Win 7 Pro, Embedded 7, Win XP Pro, Embedded XP

**Installation** VESA mount 100 x 100 mm

Model Name	12V	EA-ZJL15QF (4pt PCT) EA-ZJL15RF (resistive)	EA-ZJL17QF (4pt PCT) EA-ZJL17RF (resistive)	EA-ZJL19QF (4pt PCT) EA-ZJL19RF (resistive)
	19~36V	EA-ZJL15QW (4pt PCT) EA-ZJL15RW (resistive)	EA-ZJL17QW (4pt PCT) EA-ZJL17RW (resistive)	EA-ZJL19QW (4pt PCT) EA-ZJL19RW (resistive)
Display	Size / Aspect Ratio	15" TFT (4:3)	17" TFT (4:3)	19" TFT (4:3)
	Backlight	LED	LED	LED
	Resolution	1024 x 768	1280 x 1024	1280 x 1024
	Colors	16.2 M	16.7 M	16.7 M
	Luminance (cd/m <sup>2</sup> )	400	350	350
	Contrast Ratio	700:1	1000:1	1000:1
	Viewing Angle (H/V°)	160/160	140/170	160/150
	MTBF (hrs)	50,000	50,000	50,000
Touch Screen	4pt PCT / 5-wire resistive	4pt PCT / 5-wire resistive	4pt PCT / 5-wire resistive	
Dimension (W x H x D, mm)	438.2 x 335 x 63	470 x 390 x 67.1	521.4 x 434.4 x 67.1	
Weight (kg)	9	10	11	
I/O port's position	Rear	Rear	Rear	
OSD Controller	Yes (rear)	Yes (rear)	Yes (rear)	

## Highlights



Smooth chamfer corner

SA / HA / DA / LA / TA / UA / EA / VA Series

# VA Series Wide Temperature Sunlight Readable Full IP65 Multi Touch Monitor



Touch Function



IP65 chassis, IP65 connectors,  
IP65 power adapter (alternative)



Waterproof Design



Housing Design

Stainless steel



OSD Controller

Rear side



Heat/cold-resistant

-20°C ~ 55°C



Sunlight Readable

Up to 1600 nit

**Power Supply** Standard / IP65-rated DC in 12V (default) or DC in 19V ~ 36V (optional) external power adapter

**I/O Ports (Default)** 1 x VGA, 1 x USB or RS232 for PCT touch screen

**Op. Temp. for Monitor** -20°C ~ 55°C

**Op. Temp. for Adapter** -20°C ~ 50°C

**Storage Temperature** -25°C ~ 70°C

**Relative Humidity** 0% ~ 95% non-condensing

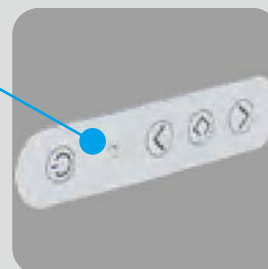
**OS Support** Win 7 Pro, Embedded 7, Win XP Pro, Embedded XP

**Installation** VESA mount 100 x 100 mm

Model Name	12V	VA-ZJL15QF (4pt PCT) VA-ZJL15RF (resistive)			VA-ZJL17QF (4pt PCT) VA-ZJL17RF (resistive)	
	19~36V	VA-ZJL15QW (4pt PCT) VA-ZJL15RW (resistive)			VA-ZJL17QW (4pt PCT) VA-ZJL17RW (resistive)	
Display	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	16.2 M	16.7 M	16.7 M	
	Luminance (cd/m <sup>2</sup> )	1600	1000	800	1600	
	Contrast Ratio	700:1	700:1	700:1	1000:1	
	Viewing Angle (H/V°)	160/160	160/160	160/160	170/160	
	MTBF (hrs)	70,000			70,000	
Touch Screen	4pt PCT / 5-wire resistive			4pt PCT / 5-wire resistive		
Dimension (W x H x D, mm)	438.2 x 335 x 63			470 x 390 x 67.1		
Weight (kg)	9			10		
I/O port's position	Rear			Rear		
OSD Controller	Yes (rear)			Yes (rear)		

## Highlights

OSD controller  
default & located in rear side



SA / HA / DA / LA / TA / UA / EA / VA Series



*Inspiring a reliable solution*



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