

FHD

UltraView

Professional and Versatile LED Monitor

UltraView FHD LED monitor series supports 1920 x 1080 resolution. 1.07 billion / 16.7 million colors achieve optimal picture quality. Improved energy efficiency and fan-around-the-clock operation.

F23"



F21"



F17"



F15"



F13"



UltraView FHD professional LED is more than just a standalone monitor. UltraView has a variety of embedded modules including HDMI Decoder, HDMI Extender, HDMI Quad display Extender, Multi-Monitor OSD Controller, SDI Input and Portrait Mode Kit. The embedded modules give you the ability of video remote management and transmission for multiple monitors over network.

As a versatile FHD monitor, UltraView FHD professional LED is meticulously designed to meet professional and environmental demands including Sunlight readable brightness, IP54 Front protection, Multi-touch, Anti-reflective/Vandal proof glass, DC power input, Brightness dimming and Mounting kit for VESA-mount, Panel-mount, Universal-mount, Desktop stand and Panel-mount.

With over 25 years' production experience, the UltraView structure is well-engineered and manufactured by our own CNC facilities and team of experts to ensure its ruggedness, mobility and quality, as well as being suitable for harsh environment applications. The structure can be customized if required to facilitate monitor installation. Our knowledgeable engineers are able to provide frame customization for specific dimensions, color, metal treatment, screen printing, bezel and mounting.

Product Highlights



Key Benefits

- ▶ 1920 x 1080 native FHD resolution
- ▶ 1.07 billion / 16.7 million colors
- ▶ DVI-D / VGA / HDMI / DP video input
- ▶ Display port video input (option)
- ▶ Video decoding capability up to 1080p (option)
- ▶ Rugged structure ensures high mobility
- ▶ IP65 front protection (NAP series)
- ▶ Professional-use durability & around-the-clock operation
- ▶ 2-year standard warranty (upgradable up to 5 years)

Applications

- Broadcasting / Advertising
- Traffic control / Command center
- Directory / Ticket kiosk
- Surveillance system
- Vehicle mount display
- Bathroom TV

Options

- DC power
- Touchscreen
- IP65 front protection
- Custom chassis & mounting
- Sunlight readable panel
- Auto-dimming
- HDMI decoder & extender
- 3G / HD / SD-SDI Input Module

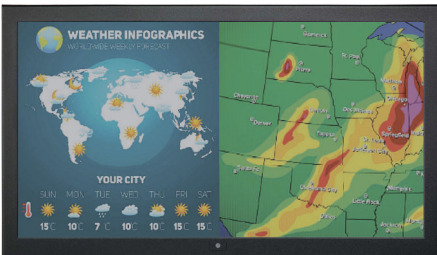
Standard Brightness

6mm aluminum front bezel



**AP-F23
AP-F21
AP-F17
AP-F15
AP-F13**

6mm aluminum front bezel
NEMA 4 / IP65 front protection



**NAP-F23
NAP-F21
NAP-F17
NAP-F15
NAP-F13**

Aluminum front cover



**DP-F23
DP-F21
DP-F17
DP-F15
DP-F13**

Universal open frame



**OP-F23
OP-F21
OP-F17
OP-F15
OP-F13**

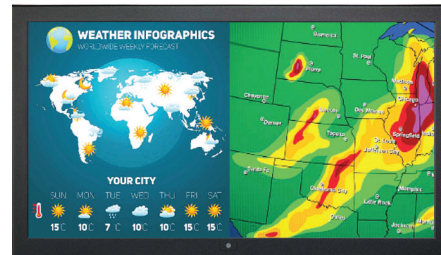
1000 cd/m² Sunlight Readable Brightness

6mm aluminum front bezel



**HAP-F21
HAP-F17
HAP-F15**

6mm aluminum front bezel
NEMA 4 / IP65 front protection



**NHAP-F21
NHAP-F17
NHAP-F15**

Aluminum front cover



**HDP-F21
HDP-F17
HDP-F15**

Universal open frame



**HOP-F21
HOP-F17
HOP-F15**

Chassis customization

- ▶ Dimension
- ▶ Color & Treatment
- ▶ Screen Printing
- ▶ Stainless Steel Bezel

Options — Touchscreen

Touchscreen type	F23	F21	F17	F15	F13
Projected Capacitive 10-point	✓	✓	✓	✓	✓
e-Capacitive 1-point		✓			
e-Resistive 1-point	✓	✓	✓	✓	✓
Infrared 6-point	✓				
Anti-reflective Glass			✓		
Vandal Proof Glass			✓		

Specification : Projected Capacitive 10-point Touch

	TPC-10 Multi-touch
Technology	Projected Capacitive
Touch Point	10 point touch standard (special requirement available)
Input Type	Finger or Capacitive Stylus
Resolution	4096 x 4096
Touch Point Accuracy	± 2 mm
Response Speed	< 5 ms
Activation Force	< 5 g
Surface Hardness	6H
Light Transmission	> 85%
Haze	3% ↓
Durability	50 million touches
Top Layer	1.1 mm Glass
Bottom Layer	0.7 mm Sensor Glass
Thickness	2 mm
Connector	USB
Compatibility	Windows / Linux / Android / Mac

Part no. : TPC10

- * Not applicable to AP & NAP series
- ** Dimension change required

Specification : Infrared 6-point Touch

	IR-06 Infrared
Technology	Infrared
Touch Point	6
Input Type	Pen, Finger, Finger of gloved hand activation
Touch Point Accuracy	± 2 mm
Response Speed	≤ 8 ms
Activation Force	No minimum touch activation force
Touch Durability	Unlimited
Glass Thickness	2 mm
Connector	A-type USB
Operating System	Windows 7 / Windows 10

Part no. : IR06 (for F23 only)

- * Not applicable to AP & NAP series
- ** Dimension change required

Specification : e-Resistive 1-point Touch

	TRB e-Resistive
Technology	5-Wire Resistive
Touch Point	Single
Input Type	Finger or Stylus
Resolution	2048 x 2048
Response Speed	15 ms
Activation Force	≤ 50 g
Surface Hardness	3H
Light Transmission	80% ± 3%
Haze	8% ± 3%
Durability	10 million touches
Top Layer	ITO Film
Bottom Layer	ITO Glass
Thickness	3.2 ± 0.2 mm
Connector	USB Type A
Compatibility	Windows 7 / XP / Linux / Mac

Part no. : TRB

- * Not applicable to NAP series
- ** Dimension change required

Specification : e-Capacitive 1-point Touch

	TCB e-Capacitive
Technology	Capacitive
Touch Point	Single
Input Type	Finger
Resolution	2048 x 2048
Response Speed	20 ms
Activation Force	≤ 50 g
Surface Hardness	9H
Light Transmission	92% ± 2%
Haze	7%
Durability	300 million touches
Top / Bottom Layer	Glass
Thickness	2.8 mm ± 10%
Connector	USB Type A
Compatibility	Windows 7 / XP / Linux / Mac

Part no. : TCB (for F21 only)

- * Not applicable to AP & NAP series
- ** Dimension change required

Options — DC Power

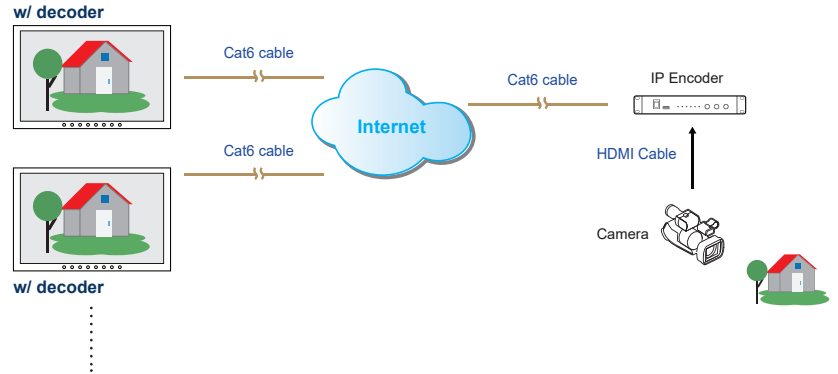
		12V	24V	48V	125V
Input rating	Input voltage	12-Volt	24-Volt	48-Volt	110-Volt
	Input range	9 ~ 18V	18 ~ 36V	36 ~ 75V	66 ~ 160V
Input current	No load	50 mA	50 mA	50 mA	35 mA
	Full load	4950 mA	2450 mA	1220 mA	749 mA
Output rating	Output voltage	12-Volt	12-Volt	12-Volt	12-Volt
	Output current	4.16A	4.16A	4.16A	6.25A
Efficiency		84%	85%	85%	91%

Part no. : 12VDC
24VDC
48VDC
125VDC

Options — Video Management & Transmission over Network

Embedded HDMI Decoder Module 1080p over IP

- Decodes RTSP, RTMP, UDP, HTTP, HLS protocols
- Supports video resolutions up to 1080p / 60Hz
- Unicast and multicast support
- Operates on standard 1000Mb Ethernet networks
- Built-in Web UI for configuration and control
- Excellent image quality with very low delay



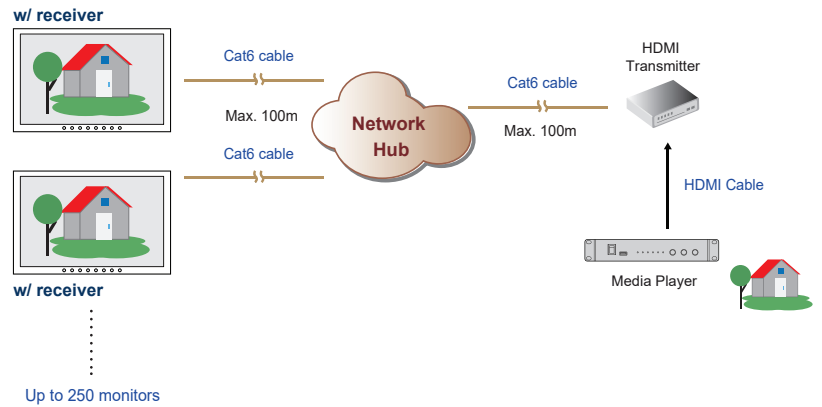
Part no.

Embedded HDMI Decoder Module : **UV-DE100F**

Standalone HDMI Encoder : **UV-EN100F**

Embedded HDMI Receiver Module 1080p

- Extends the HDMI signal over a single Cat5/6 cable
- Supports video resolutions up to 1080p / 60Hz
- One to one just via Cat5/6 cable
- One to multi via network hub and Cat5/6 cable
- 100m maximum Cat5/6 cable distance
- Supports bi-directional IR communication
- High Speed HDMI 1.4 and HDCP 1.4 compliant
- No software or drivers required



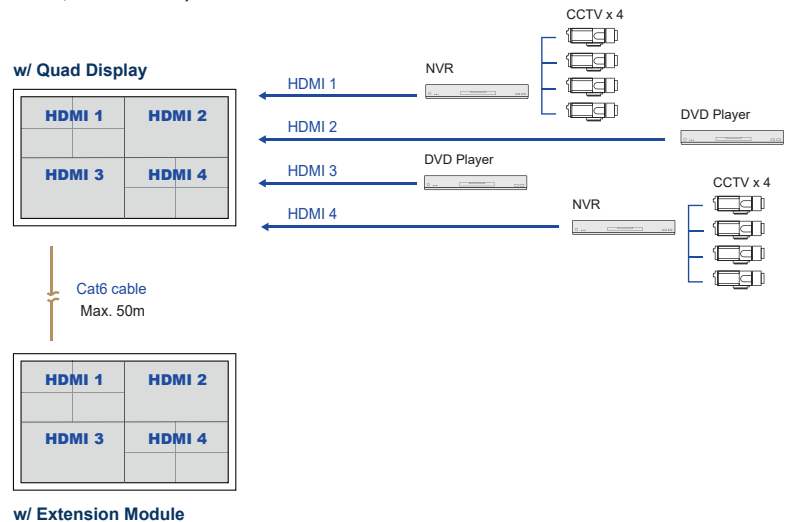
Part no.

Embedded HDMI Receiver Module : **UV-R100F**

Standalone HDMI Transmitter : **UV-T100F**

Embedded HDMI Quad Display Module 1080p (For F23, F21 series)

- Allows 4 x HDMI inputs to be monitored simultaneously
- Quad split, panel left and full screen monitoring modes
- High speed HDMI 1.4 and HDCP 1.4 compliant
- Supports video resolutions up to 1080p / 60Hz
- Supports Scaler Up and Down function
- Control via local front panel and IR remote



Part no.

Embedded HDMI Quad Display Module : **QD-1080**

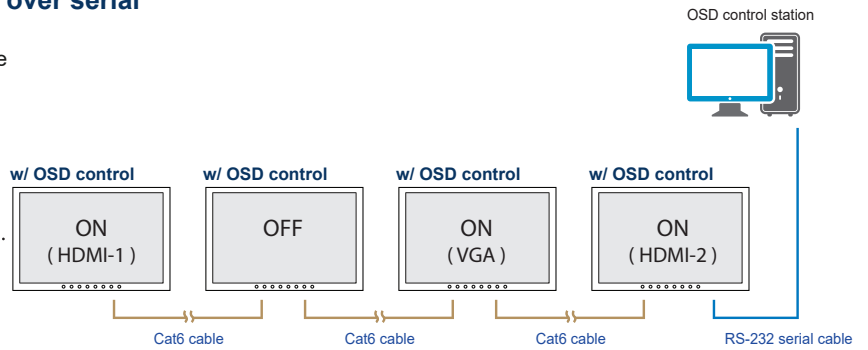
Embedded Quad Display Extension Module : **QD-E1080**

Options — Video Management & Transmission over Network

Embedded Multi Monitor OSD Control Module over serial

- Remote control the monitor OSD via RS-232C serial interface
- Daisy chain up to 64 monitors via Cat5/6 cable
- Individual ID for individual monitor OSD settings
- Power ON or OFF monitor
- Adjust brightness & audio
- Switch video sources

Up to 64 monitors
Up to 1,000m distance

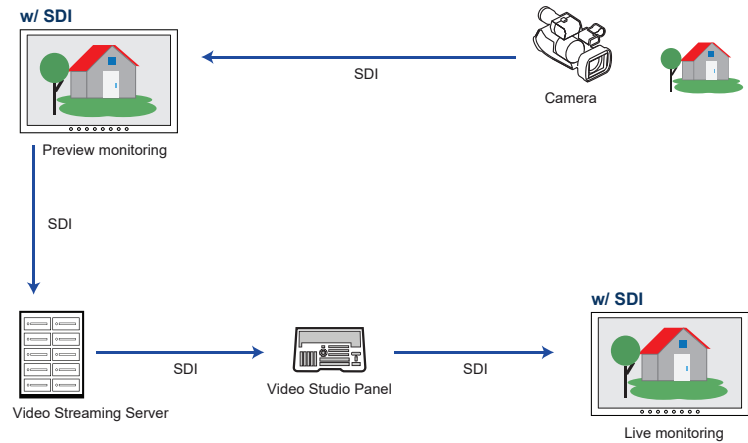


Part no.
Embedded Multi Monitor OSD Control Module : MCS

Embedded 3G / HD / SD-SDI Input Module

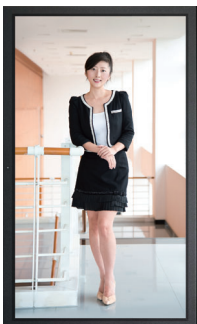
- Intelligent SDI monitoring with broadcast quality scopes
- Supports multi-rate 3G / HD / SD-SDI format
- Provides input to output loop-through capability
- Auto format sensing & selection

Part no.
Embedded 3G / HD / SD-SDI Input Module : SDI



Embedded Portrait Mode Module (For F23 series only)

- Provides users with a rotation feature (0, 90, 180 & 270 orientation) without frame delay via OSD
- Allows distortion-free display of content in various orientations
- Creates new application opportunities



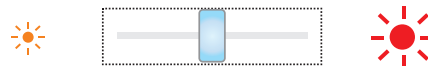
w/ Portrait mode module

Part no.
Embedded Portrait Mode Module : AD4.0-P

Embedded Auto Brightness Dimming Module

- Brightness changes according to its ambient brightness
- Its brightness change causes 10% increase or decrease

Part no.
Embedded Brightness Auto Dimming Module : DA-01



Embedded Manual Brightness Dimming Knob

- Easy-to-use IP54 dimming knob on the front panel
- One click causes 2% brightness increase or decrease
- Brightness adjustment from 0% to 100%

Part no.
Brightness Dimming Knob : DS-01

Product Specifications

LCD Panel	F23	F21	H-F21	F17	H-F17	F15	H-F15	F13
Panel size (diagonal)	23"	21.5"		17.3"		15.6"		13"
Native resolution	1920 x 1080							
Brightness (cd/m ²)	310	250	1000 ^{***}	300	1000 ^{***}	300	1000 ^{***}	300
Contrast ratio (typ.)	1000 : 1	1000 : 1	5000 : 1	1000 : 1	600 : 1	800 : 1	500 : 1	800 : 1
Colors	1.07 Billion, 10-bit	16.7 M		16.7 M, 8-bit	16.7 M, 6-bit	16.7 M, 8-bit	16.7 M, 6-bit	16.7 M, 8-bit
Viewing angle (L/R/U/D)	89/89/89/89	85/85/80/80		89/89/89/89	80/80/60/80	89/89/89/89	70/70/60/60	85/85/85/85
Response time (ms)	25	5		25	40	30	8	25
Dot pitch (mm)	0.13725	0.248		0.1989		0.0897	0.17925	0.1529
Display area (mm)	527.04H x 296.46V	476.64H x 268.11V		381.888H x 214.812V		344.448H x 193.752V	344.16H x 193.59V	293.76H x 165.24V
Surface treatment	Anti-glare	Haze 25%, Hard-coating	Anti-glare	Anti-glare, Hard-coating	Hard-coating	Anti-glare		Anti-glare
Surface hardness	3H							
Backlight type	LED							
MTBF (hrs)	30,000	30,000	50,000	15,000	50,000	20,000	50,000	15,000

Mounting	F23	F21	H-F21	F17	H-F17	F15	H-F15	F13
VESA mount (bundle)	100 x 100 mm	100 x 100 mm		100 x 100 mm		100 x 100 mm		100 x 100 mm
Universal mount (ready)	OP only	OP only		OP only		OP only		OP only
Desktop stand (optional)	AP / NAP / DP	AP / NAP / DP		AP / NAP / DP		AP / NAP / DP		AP / NAP / DP
Panel mount (optional)	AP / NAP / DP	AP / NAP / DP		AP / NAP / DP		AP / NAP / DP		AP / NAP / DP

Power	F23	F21	H-F21	F17	H-F17	F15	H-F15	F13
Input	Auto-sensing 100 to 240VAC, 50 / 60Hz							
Max. Consumption :								
Screen on	45W	28W	32W	14W	39W	9W	65W	9W
Saving mode	2W							
Button off	1W							

Design	AP	NAP	DP	OP
Protection	6mm front bezel	NEMA 4 / IP65		Open frame
Front panel	Black, RAL 9005			-
Rear casing	Black, RAL 9005			

Video	
VGA	Analog 0.7Vp-p
DVI	DVI-D single link

Video Option	
Display port	DP1.0 / HDCP 1.3
HDMI	HDMI 1.3 / HDCP 1.1 (for H-F17 only) HDMI 1.4 / HDCP 1.4
Composite (BNC)	NTSC & PAL

Audio Option	
Audio input :	
Connector	3.5mm stereo jack
Impedance / Power level	30kΩ / 750mV
Audio output :	
Connector	3.5mm stereo jack
Resistance / Power level	30kΩ / 2.8V
Speaker :	
Dual stereo speaker	2W x 2

DVI-D / VGA input
PC signal :
1920 x 1080 x 60Hz
1360 x 768 x 60Hz
1280 x 1024 x 60 / 75Hz
1280 x 960 x 60Hz
1280 x 768 x 60 / 75Hz
1152 x 864 x 75Hz
1024 x 768 x 60 / 70 / 75Hz
848 x 480 x 60Hz
800 x 600 x 60 / 72 / 75Hz
720 x 400 x 70Hz
640 x 480 x 60 / 72 / 75Hz
640 x 400 x 70Hz
640 x 350 x 70Hz
Audio signal :
2ch Linear PCM

HDMI input
PC signal :
Same as VGA
HDMI 1.3 / 1.4 :
1920 x 1080 x 50 / 60Hz
1920 x 1080 x 25 / 30Hz
1280 x 720 x 50 / 60Hz
720 x 480 x 50 / 60Hz
Audio signal :
2ch Linear PCM

Display port input
PC signal :
1920 x 1080 x 60Hz
1600 x 1200 x 60Hz
1360 x 768 x 60Hz
1280 x 768 x 60 / 75Hz
1280 x 768 x 60Hz
1024 x 768 x 60 / 70 / 75Hz
800 x 600 x 60 / 72 / 75Hz
720 x 400 x 70Hz
640 x 480 x 60 / 72 / 75Hz
Audio signal :
2ch Linear PCM

F13 & F17 resolution support not listed in the above table. For details, please refer to the user manual.

F13 **F17**

* When the audio output is connected, speaker output is OFF

Product Specifications

Environment	
Operating temp.	0 to 55°C degree
Storage temp.	-20 to 60°C degree
Operating humidity	20~90%, non-condensing
Storage humidity	5 ~90%, non-condensing
Operating altitude	16,000 ft
Non-operating altitude	40,000 ft
Shock	10G acceleration (11ms duration)
Vibration	10~300Hz 0.5G RMS random

Compliance	
EMC	FCC & CE certified
Safety	CE / LVD certified
Environment	RoHS2 & REACH compliant

Physical Dimension & Weight

F23"		AP-F23	NAP-F23	DP-F23	OP-F23
Product (W x D x H) :	mm	584.2 x 63.6 x 363.6		562.4 x 59.6 x 341.6	581.4 x 65.3 x 360.6
	inch	23 x 2.5 x 14.3		22.1 x 2.3 x 13.4	22.9 x 2.6 x 14.2
Net weight		9 kg / 19.8 lb	10.4 kg / 22.9 lb	7.9 kg / 17.4 lb	6.7 kg / 14.7 lb
Packing (W x D x H) :	mm	659 x 117 x 640			
	inch	25.9 x 4.6 x 25.2			
Gross weight		12.7 kg / 27.9 lb	14.1 kg / 31 lb	11.6 kg / 25.5 lb	10.4 kg / 22.9 lb

F21"		AP-F21	NAP-F21	DP-F21	OP-F21
Product (W x D x H) :	mm	577.8 x 59.1 x 369.3		546.8 x 56.4 x 338.3	574.8 x 52.6 x 366.3
	inch	22.7 x 2.3 x 14.5		21.5 x 2.2 x 13.3	22.6 x 2.1 x 14.4
Net weight		9 kg / 19.8 lb	9 kg / 19.8 lb	7.9 kg / 17.4 lb	6.7 kg / 14.7 lb
Packing (W x D x H) :	mm	659 x 117 x 640			
	inch	25.9 x 4.6 x 25.2			
Gross weight		12.7 kg / 27.9 lb	12.7 kg / 27.9 lb	11.6 kg / 25.5 lb	10.4 kg / 22.9 lb

F17"		AP-F17	NAP-F17	DP-F17	OP-F17
Product (W x D x H) :	mm	468.5 x 57.1 x 331		437.5 x 51.9 x 300	465.5 x 50.6 x 328
	inch	18.4 x 2.2 x 13		17.2 x 2 x 11.8	18.3 x 2 x 12.9
Net weight		5.2 kg / 11.4 lb	5.2 kg / 11.4 lb	4.3 kg / 9.5 lb	3.4 kg / 7.5 lb
Packing (W x D x H) :	mm	615 x 113 x 523			
	inch	24.2 x 4.4 x 20.6			
Gross weight		8 kg / 17.6 lb	8 kg / 17.6 lb	7.1 kg / 15.6 lb	6.2 kg / 13.6 lb

F15"		AP-F15	NAP-F15	DP-F15	OP-F15
Product (W x D x H) :	mm	399 x 53.6 x 261.6		376.4 x 54.4 x 239	396 x 47.6 x 258.6
	inch	15.7 x 2.1 x 10.3		14.8 x 2.1 x 9.4	15.9 x 1.9 x 10.2
Net weight		4.7 kg / 10.3 lb	4.7 kg / 10.3 lb	4.1 kg / 9 lb	3.5 kg / 7.7 lb
Packing (W x D x H) :	mm	615 x 113 x 523			
	inch	24.2 x 4.4 x 20.6			
Gross weight		7.3 kg / 16.1 lb	7.3 kg / 16.1 lb	6.7 kg / 14.7 lb	6.1 kg / 13.4 lb

F13"		AP-F13	NAP-F13	DP-F13	OP-F13
Product (W x D x H) :	mm	355 x 54.9 x 252.3		332.4 x 50.2 x 231.7	355 x 50.2 x 252.3
	inch	14 x 2.2 x 9.9		13.1 x 2 x 9.1	13.9 x 2 x 9.9
Net weight		- kg / - lb	- kg / - lb	- kg / - lb	- kg / - lb
Packing (W x D x H) :	mm	615 x 113 x 523			
	inch	24.2 x 4.4 x 20.6			
Gross weight		- kg / - lb	- kg / - lb	- kg / - lb	- kg / - lb

* All dimensions stated are subject to change if options are selected / integrated to base model part codes

UltraView Family

UltraView series covers a full range of professional LCD display sizes from 6.5" to 55". Please select from the below the most suitable model for your application.

Sales Inquiry

inquiry@austin-hughes.com

Technical Support

support@austin-hughes.com

4K	FHD	FHD 144Hz	WXUGA (1920 x 1200)	Regular
● K55"	● F55"	● MF17"	● X24"	● W19" (1440 x 900)
● K43"	● F43"	● MF27"	● X17"	● 20" (1600 x 1200)
● K32"	● F32"			● 19" (1280 x 1024)
● K28"	● F28"			● 17" (1280 x 1024)
● K23"	● F23"			● 15" (1024 x 768)
● K17"	● F21"			● 12" (800 x 600)
● K15"	● F17"			● 10" (800 x 600)
● K13"	● F15"			
	● F13"			

High Brightness

4K	FHD	Regular
● K55"	● F55"	● W19" (1440 x 900)
● K43"	● F43"	● 19" (1280 x 1024)
	● F32"	● 17" (1280 x 1024)
	● F21"	
	● F17"	
	● F15"	

Sunlight Readable Brightness

Americas

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