

4K UHD

Professional and Versatile LED Monitor

UltraView

UltraView 4K LED monitor series supports 3840 x 2160@60Hz resolution, 4 times the resolution of FHD. 1.07 billion / 16.7 million colors achieve optimal picture quality. Reduced energy and fan-less architecture provides professional-use durability and around-the-clock operation.



UltraView 4K professional LED is more than just a standalone monitor. UltraView has a variety of embedded modules including HDMI Decoder, HDMI Extender, Multi-Monitor OSD Controller, 3G & 12G SDI Input. The embedded modules give you the ability of video remote management and transmission for multiple monitors over network.

As a versatile 4K monitor, UltraView 4K professional LED is meticulously designed to meet professional and environmental demands including Front Protection, Anti-reflective/Vandal proof glass, DC power input, Brightness dimming and Mounting kit for Overhead tilted wall-mount, Panel-mount, VESA-mount, Universal-mount and Desktop stand.

With over 30 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

- ▶ 3840 x 2160@60Hz native UHD resolution
- ▶ K23 & K19 : 1.07 billion colors
- ▶ K21 : 16.7 million colors
- ▶ K15 & K13 : 16.7 million colors (8-bits)
- ▶ PIP Sub-screen & PBP Dual-screen viewing efficiency
- ▶ Display port 1.2 + HDMI 1.4 + HDMI 2.0 video input
- ▶ 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
- HDMI decoder & extender
- HDMI quad display 1080p (K23")
- Multi monitor OSD control module
- 3G / HD / SD-SDI input module
- 12G / 4K60 / SD-SDI input module
- Auto dimming
- Manual dimming

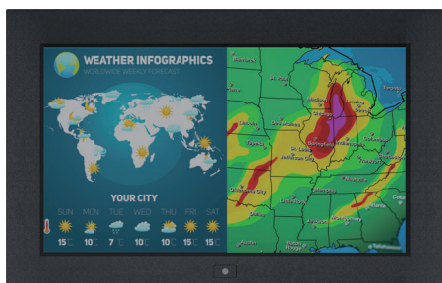
Standard Brightness

6mm aluminum front bezel



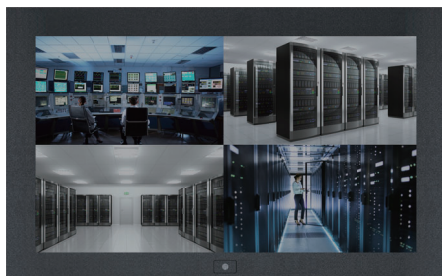
AP-K23
AP-K21
AP-K19
AP-K15
AP-K13

8mm / 6mm aluminum front bezel
NEMA 4 / IP65 front protection



NAP-K23
NAP-K21
NAP-K19
NAP-K15
NAP-K13

Aluminum front bezel



DP-K23
DP-K21
DP-K19
DP-K15
DP-K13

Universal open frame



OP-K23
OP-K21
OP-K19
OP-K15
OP-K13

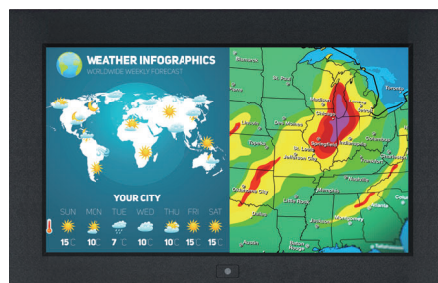
1000 cd/m² Sunlight Readable Brightness

6mm aluminum front bezel



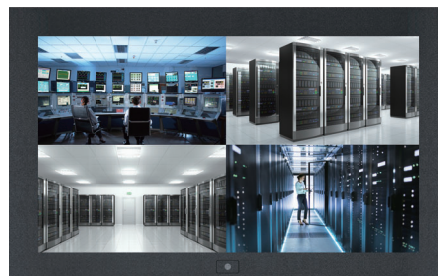
HAP-K23
HAP-K19

8mm / 6mm aluminum front bezel
NEMA 4 / IP65 front protection



NHAP-K23
NHAP-K19

Aluminum front bezel



HDP-K23
HDP-K19

Universal open frame



HOP-K23
HOP-K19

Chassis customization

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

Options — Touchscreen & Glass Protection

Touchscreen type	K23	K21	K19	K15	K13
Projected Capacitive 10-point	✓	✓	✓	✓	✓
e-Resistive 1-point Touch	✓	✓	✓	✓	✓
Anti-reflective Glass	✓	✓	✓	✓	✓
Vandal Proof Glass	✓	✓	✓	✓	✓

* Only K13 apply 4-Wire Resistive

	TPC-10 Multi-touch	TRB e-Resistive	
Technology	Projected Capacitive	5-Wire Resistive	4-Wire Resistive
Touch Point	10 point	Single	
Input Type	Finger or Capacitive Stylus	Finger or Stylus	
Resolution	4096 x 4096	2048 x 2048	
Touch Point Accuracy	± 2 mm	/	
Response Speed	< 5 ms	15 ms	
Activation Force	< 5 g	≤ 50 g	60-150g
Surface Hardness	6H	3H	
Light Transmission	> 85%	80% ± 3%	>75% ± 3%
Haze	3% ↓	8% ± 3%	<12% ± 3%
Durability	50 million touches	10 million touches	
Top Layer	1.1 mm Glass	ITO Film	
Bottom Layer	0.7 mm Sensor Glass	ITO Glass	
Thickness	2 mm	3.2 ± 0.2 mm	2.2 ± 0.2 mm
Connector	USB	USB Type A	
Compatibility	Windows / Linux / Android / Mac	Windows 7 / XP / Linux / Mac	

Options — DC Power

		12V	24V	48V	125V	250V
Input rating	Input voltage	12-Volt	24-Volt	48-Volt	110-Volt	300-Volt
	Input range	9 ~ 18V	18 ~ 36V	36 ~ 75V	66 ~ 160V	180 ~ 425V
Input current	No load	50 mA	50 mA	50 mA	35 mA	10 mA
	Full load	4950 mA	2450 mA	1220 mA	749 mA	600 mA
Output rating	Output voltage	12-Volt	12-Volt	12-Volt	12-Volt	12-Volt
	Output current	4.16A	4.16A	4.16A	6.25A	12.5A
Efficiency		84%	85%	85%	91%	86%

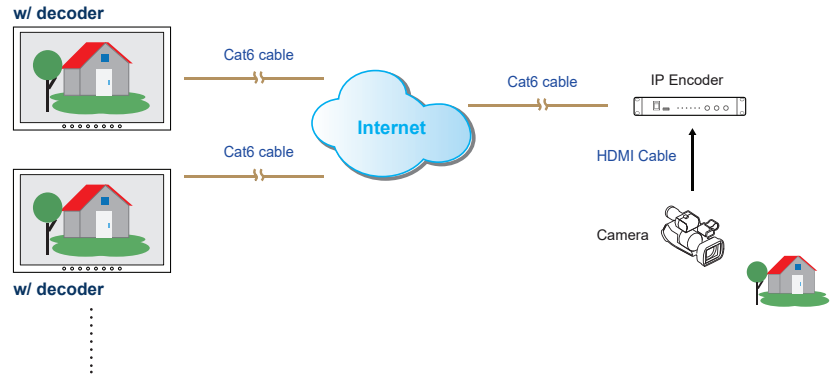
Part no. : 12VDC
 24VDC
 48VDC
 125VDC
 250VDC

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

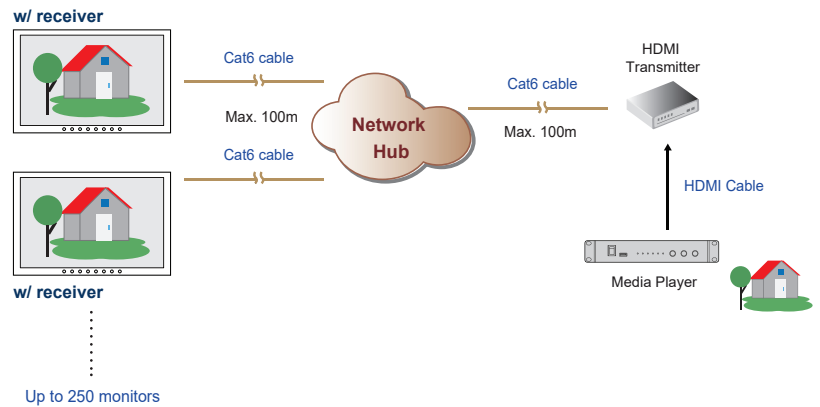
Part no.

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

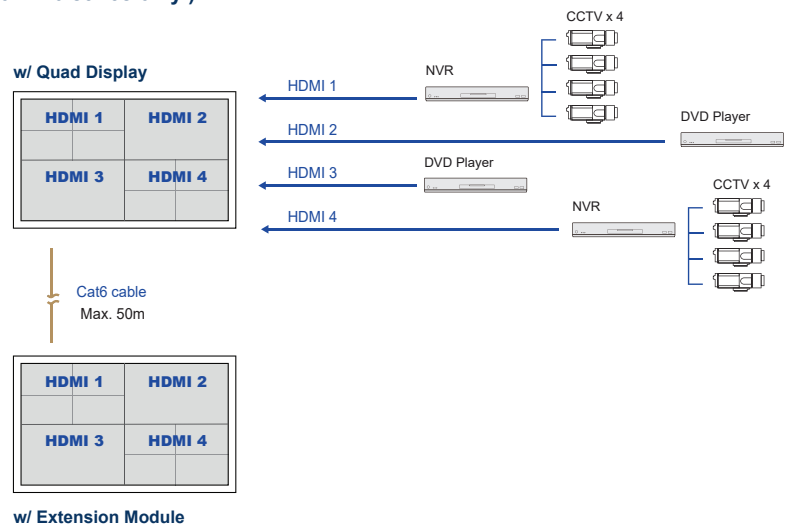
Part no.

Embedded HDMI Receiver Module : **UV-R100F**Standalone HDMI Transmitter : **UV-T100F**

Embedded HDMI Quad Display Module 1080p (For K23 series only)

- 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**

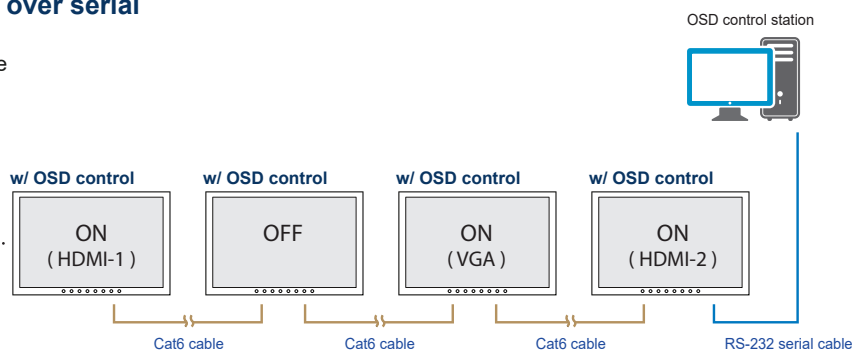
Options — Video Management & Transmission over Network

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.

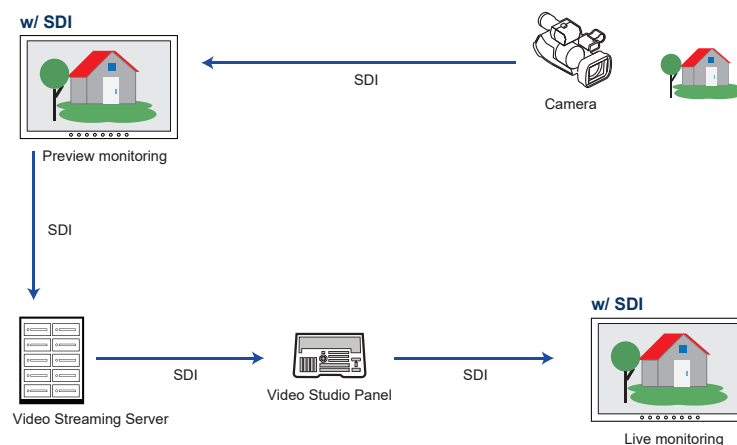
Embedded Multi Monitor OSD Control Module : **MCS**

Embedded 3G / HD / SD-SDI Input Module

Embedded 12G / 4K60 / SD-SDI Input Module

- Intelligent SDI monitoring with broadcast quality scopes
- Supports multi-rate 3G / HD & 12G / 4K60 / SD-SDI format
- Provides input to output loop-through capability
- Auto format sensing & selection

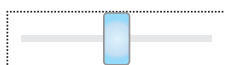
Part no.

Embedded 3G / HD / SD-SDI Input Module : **SDI**Embedded 12G / 4K60 / SD-SDI Input Module : **12G-SDI**

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	K23	H-K23	K21	K19	H-K19	K15	K13
Panel size (diagonal)	23.8"		21.5"	18.4"		15.6"	13"
Native resolution	3840 x 2160@60Hz		3840 x 2160@60Hz	3840 x 2160@60Hz		3840 x 2160@60Hz	3840 x 2160@60Hz
Brightness (cd/m ²)	540	1000	600	300	1000	300	340
Contrast ratio (typ.)	1200 : 1	1300 : 1	1000 : 1	1000 : 1		800 : 1	1500 : 1
Colors	1.07 Billion		16.7 M	1.07 Billion		16.7 M, 8-bit	16.7 M, 8-bit
Viewing angle (L/R/U/D)	89/89/89/89		89/89/89/89	85/85/85/85		89/89/89/89	89/89/89/89
Response time (ms)	14		12	15		30	29
Dot pitch (mm)	0.13689		0.124	0.1065		0.0897	0.0765
Display area (mm)	525.66H x 295.71V	525.89H x 295.81V	476.06H x 267.79V	408.96H x 230.04V		344.448H x 193.752V	293.76H x 165.24V
Surface treatment	Anti-reflective	Haze 25%	Anti-glare, Hard-coating	Anti-glare, Hard-coating		Anti-glare	Glare
Surface hardness	2H	3H	3H	3H		3H	3H
Backlight type	LED		LED	LED		LED	LED
MTBF (hrs)	30,000		50,000	30,000		20,000	15,000

Mounting	K23	H-K23	K21	K19	H-K19	K15	K13
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	K23	H-K23	K21	K19	H-K19	K15	K13
Input	Auto-sensing 100 to 240VAC, 50 / 60Hz						
Max. Consumption :							
Screen on	55W	90W	132W	40W	60W	30W	30W
Saving mode	2W						
Button off	1W						

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

Video	
Display port	DP 1.2 / HDCP 1.3
HDMI	HDMI 2.0 / HDCP 2.2 HDMI 1.4 / HDCP 1.4

Display port input	
PC signal	3840 x 2160 x 60Hz 1920 x 1080 x 60Hz 1920 x 1200 x 60Hz 1600 x 1200 x 60Hz 1280 x 1024 x 60 / 75Hz 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

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

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

HDMI input	
HDMI 2.0 / PC signal	Same as Display port
HDMI 1.4	3840 x 2160 x 30 Hz 1920 x 1080 x 50 / 60Hz (1080p) 1920 x 1080 x 25 / 30Hz (1080i) 1280 x 720 x 50 / 60Hz (720p) 720 x 480 x 50 / 60Hz (576p / 480p)
Audio signal	2ch Linear PCM

Product Specifications

Environment	
Operating temp.	0 to 55°C degree
Storage temp.	-20 to 60°C degree
Operating humidity	10~90%, 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
Safety	CE / LVD & UKCA
Environment	REACH & RoHS3 / WEEE

UltraView Family

UltraView series covers a full range of professional LCD display sizes.
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		WXUGA (1920 x 1200)	Regular
● K55 ● K43 ● K32 ● K27 ● K23 ● K21 ● K19 ● K15 ● K13	● F55 ● F43 ● F32 ● F27 ● F23	● F21 ● F19 ● F17 ● F15 ● F13	● X24 ● X19	● W19" (1440 x 900) ● 20" (1600 x 1200) ● 19" (1280 x 1024) ● 17" (1280 x 1024) ● 15" (1024 x 768) ● 12" (800 x 600) ● 10" (800 x 600)

Sunlight Readable / High Brightness

4K	FHD		Regular
● K55 ● K43 ● K23 ● K19	● F55 ● F43 ● F32 ● F24 ● F23	● F21 ● F19 ● F17 ● F15	● W19" (1440 x 900) ● 19" (1280 x 1024) ● 17" (1280 x 1024)



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