W19

Professional and Versatile 19" LCD Monitor

UItraView

Key Benefits

- ▶ 19" widescreen LCD, 1440 x 900 native resolution
- ▶ 16.7 M colors / 300 cd/m² brightness
- ▶ DVI-D + VGA video input
- ▶ Video decoding capability up to 1080p (option)
- ▶ Rugged structure ensures high mobility
- ▶ IP65 front protection (NAP series)
- ▶ 1000 cd/m² sunlight readable LED panel available
- ▶ 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

UltraView W19 series 19" widescreen LCD monitor supports 1440 x 900 resolution. 16.7 million colors achieve optimal picture quality. Improved energy efficiency and fan-less architecture provides professional-use durability and around-the-clock operation.

W19 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 and SDI Input. The embedded modules give you the ability of video remote management and transmission for multiple monitors over network.

As a versatile 1440 x 900 monitor, W19 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 Panel-mount, VESA-mount, Universal-mount and Desktop stand.

With over 22 years' production experience, the W19 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.

Options

Video Management & Transmission over Network

- ● Embedded HDMI Decoder Module 1080p over IP
- ● Embedded HDMI Extender Module 1080p over network
- ● Embedded HDMI Quad Display Module 1080p over network
- ● Embedded HDMI Quad Display Extension Module
- ● Embedded Multi Monitor OSD Control Module over serial
- ● Embedded 3G / HD / SD-**SDI** Input Module
- ● Embedded Brightness Dimming Module
- ● HDMI 1.3 / S-Video + BNC

Touchscreen & Glass Protection

- ● Projected Capacitive 10-point Touch
- ● 5-Wire Resistive 1-point Touch
- ● Capacitive 1-point Touch
- ● Anti-reflective Glass
- ● Vandal Proof Glass

DC Power

- ● 12V / 24V / 48V / 125VDC (50 Watt)

Bezel & Frame Customization

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

Mounting

- ● VESA mount , 100 x 100mm (bundled)
- ● Universal mount (bundled)
- ● Desktop stand (option)
- ● Panel mount (bundled)

300 cd/m² Brightness

6mm aluminum front bezel

AP-W19

6mm aluminum front bezel
NEMA 4 / IP65 front protection

NAP-W19

Aluminum front cover

DP-W19

Universal open frame

OP-W19

MP-W19
Industrial Display Kit
- Widescreen 19" LCD
- LCD controller
- AC power

1000 cd/m² Sunlight Readable Brightness

6mm aluminum front bezel

HAP-W19

6mm aluminum front bezel
NEMA 4 / IP65 front protection

NHAP-W19

Aluminum front cover

HDP-W19

Universal open frame

HOP-W19

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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**
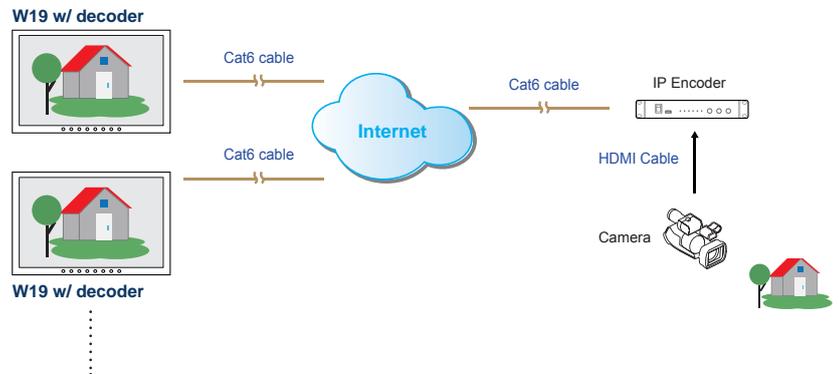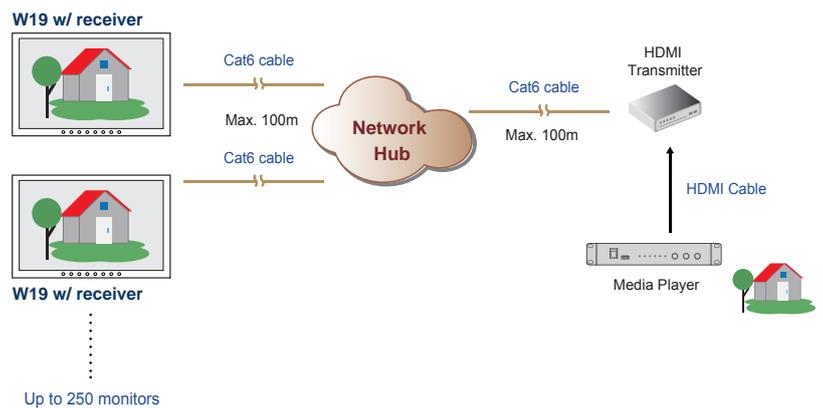

Embedded HDMI Receiver Module 1080p

- 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 1.3 and HDCP 1.1 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

- Allows 4 x HDMI inputs to be monitored simultaneously
- Quad split, panel left and full screen monitoring modes
- High speed HDMI 1.3a and HDCP 1.2 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**

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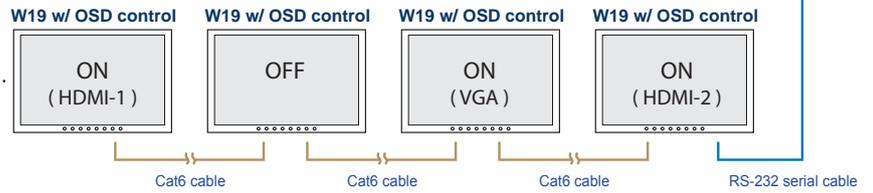Design. Manufacturing. Global Services.

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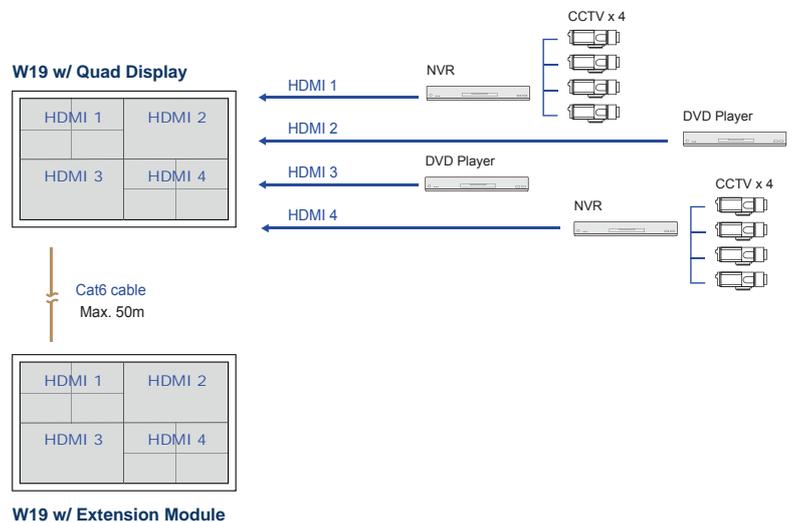
Options — Video Management & Transmission over Network

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

Part no.

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

OSD control station

Up to 64 monitors
Up to 1,000m distance

| W19 w/ OSD control | W19 w/ OSD control | W19 w/ OSD control | W19 w/ OSD control |
| ON (HDMI-1) | OFF | ON (VGA) | ON (HDMI-2) |

Cat6 cable   Cat6 cable   Cat6 cable   RS-232 serial cable

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**

W19 w/ SDI

SDI ← Camera

Preview monitoring

SDI

Video Streaming Server → SDI → Video Studio Panel → SDI → W19 w/ SDI
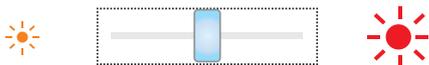
Live monitoring
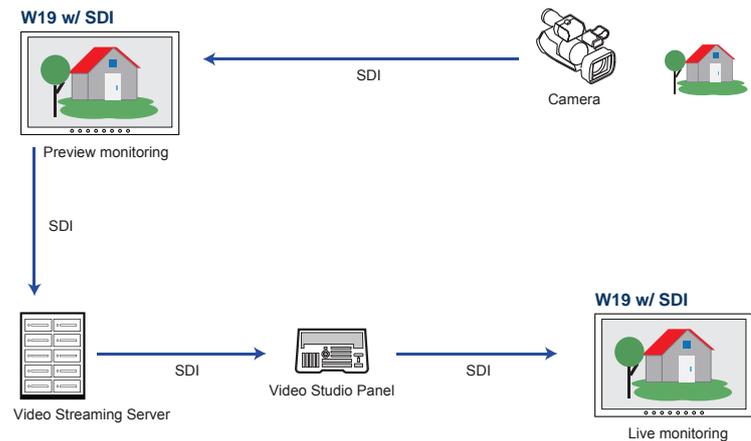
Embedded Auto Brightness Dimming Module

- 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**

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Option — 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. : W19TRB

** Dimension will be changed
   if multi-touch required

Option — 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. : W19TCB

** Dimension will be changed
   if multi-touch required

Option — 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	Linus / Android / Windows / Mac

Part no. : W19-TPC10

** Dimension will be changed
   if multi-touch 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

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Ultra**V**iew

Product Specifications

LCD Panel	Standard	Sunlight Readable
Brightness (cd/m²)	300	1000
Backlight type	CCFL	LED
Panel size (diagonal)	17.3-inch widescreen TFT color LCD	
Native resolution	1440 x 900	
Contrast ratio (typ.)	1000 : 1	
Colors	16.7 M	
Viewing angle (L/R/U/D)	80/80/80/80	
Response time (ms)	5	
Dot pitch (mm)	0.2835	
Display area (mm)	408.24H x 255.15V	
Surface treatment	Haze 25%, Hard-coating	
Surface hardness	3H	
MTBF (hrs)	50,000	

Design	AP-W19	NAP-W19	DP-W19	OP-W19
Protection	6mm front bezel	NEMA 4 / IP65	front cover	open frame
Front panel	Black, RAL 9005			-
Rear casing	Black, RAL 9005			

Mounting	AP-W19 / NAP-W19	DP-W19	OP-W19
VESA mount	100 x 100 mm	100 x 100 mm	100 x 100 mm
Universal mount	-	-	bundled
Desktop stand	option	option	-
Panel mount	bundled	bundled	-

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

Video Option	
HDMI	HDMI 1.3 / HDCP 1.3
Composite (BNC)	NTSC & PAL
S-Video (4-pin)	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

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

Physical		AP-W19 / NAP-W19	DP-W19	OP-W19
Product (W x D x H) :				
	mm	508.5 x 65.6 x 338.1	477.5 x 60.9 x 307.1	505.5 x 59.6 x 335.1
	inch	20 x 2.6 x 13.3	18.8 x 2.4 x 12.1	19.9 x 2.3 x 13.2
Packing (W x D x H) :				
	mm	662 x 115 x 533	662 x 115 x 533	662 x 115 x 533
	inch	26.1 x 4.5 x 21	26.1 x 4.5 x 21	26.1 x 4.5 x 21
Net weight		7 kg / 15.4 lb 7 kg / 15.4 lb	6.3 kg / 13.9 lb	5.5 kg / 12.1 lb
Gross weight		10 kg / 22 lb 10 kg / 22 lb	9.2 kg / 20.2 lb	8.4 kg / 18.5 lb
Chassis color		dark		
Chassis materials		Aluminum		

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

Power		
Input	Auto-sensing 100 to 240VAC, 50 / 60Hz	
Consumption :		
Screen on	Max. 25W	Max. 35W
Power saving mode	Max. 4W	Max. 4W
Power button on	Max. 1W	Max. 1W

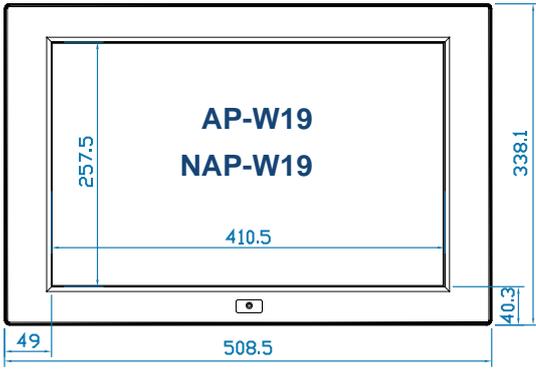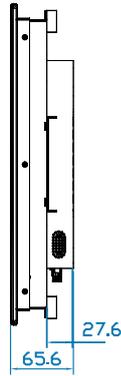| Environment	
Operating temp.	0 to 55°C degree
Storage temp.	-20 to 60°C degree
Operating humidity	20~90%, non-condensing
Storage humidity	5 ~90%, non-condensing
Operating altitude	16,000 ft
Non-operating altitude	40,000 ft
Shock	10G acceleration (11ms duration)
Vibration	10~300Hz 0.5G RMS random vibration

Applicable Format		
DVI-D / VGA Input	PC signal	1440 x 900 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	1280 x 720 x 50 / 60Hz (720p)
		720 x 480 x 50 / 60Hz (576p / 480p)
	Audio signal	2ch Linear PCM

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Ultra**View**

Diagrams (mm)

Front View

AP-W19
NAP-W19

257.5
338.1
410.5
40.3
49
508.5

Side View

27.6
65.6

Rear View

397
M4*4pcs
100
218.5
100

DP-W19

257.5
307.1
410.5
24.8
33.5
477.5

27.6
60.9

397
M4*4pcs
100
218.5
100
M4*4pcs

OP-W19

16 60 24 24 35 35 43.3 43.3 35 35 24 24 60 16
7.5
8.3 8.3
24 31.8 18 18
24 31.8 24
35
255.2
304.1
335.1
408.2
18 31.8 24
8.3
17.5
R2
474.5
Ø3.5
505.5

27.6
59.6

397
M4*4pcs
100
218.5
100
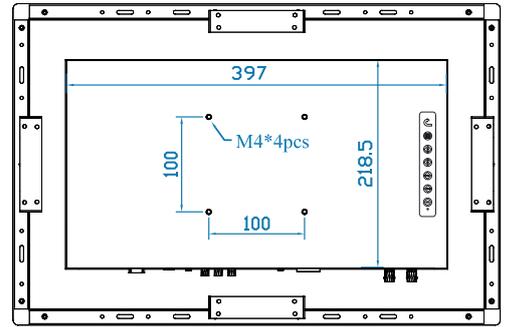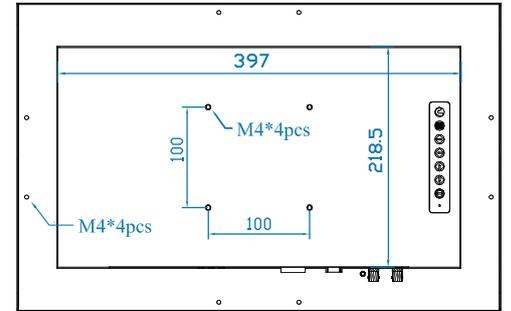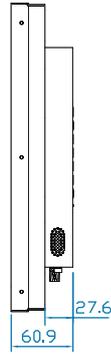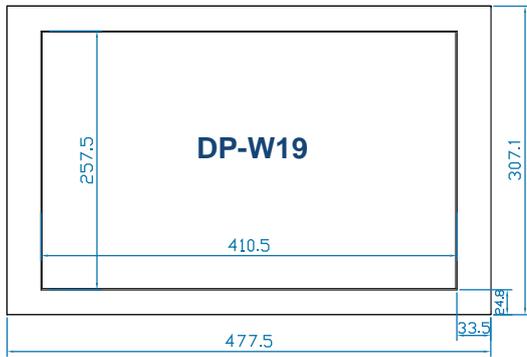
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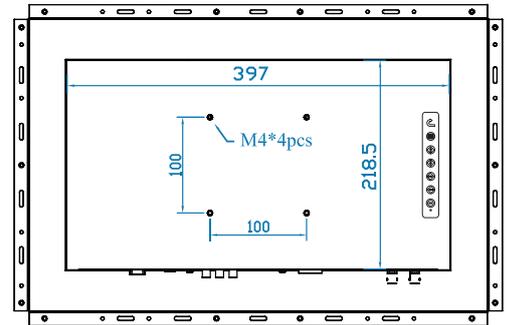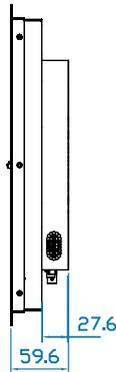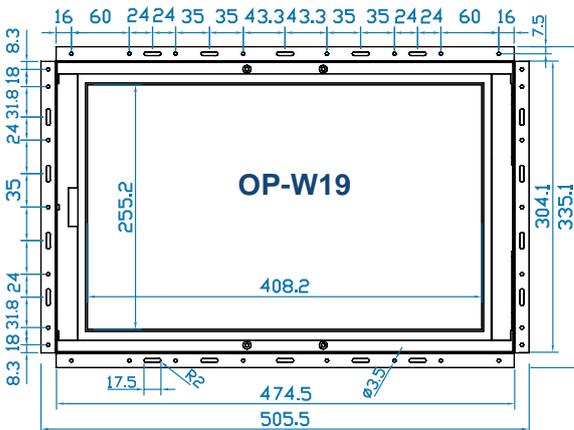
UltraView Family

UltraView series covers a full range of professional LCD display sizes from 6.5" to 65".
Please select from the below the most suitable model for your application.

Sales Inquiry
inquiry@austin-hughes.com

Technical Support
support@austin-hughes.com

16 : 9 (4K / 1080p)	16 : 9 (1080p)	16 : 10	4 : 3
● K65"	● F21"	● X24" (1920 x 1200)	● 20" (1600 x 1200)
● K55"	● F17"	● X17" (1920 x 1200)	● 19" (1280 x 1024)
● K43"	● F15"	● W19" (1440 x 900)	● 17" (1280 x 1024)
● K32"			● 15" (1024 x 768)
● K28"			● 12" (800 x 600)
● K23"			● 10" (800 x 600)
● K17"			● 8" (800 x 600)
● K15"			● 6" (640 x 480)

Sunlight Readable

16 : 9 (4K / 1080p)	16 : 9 (1080p)	16 : 10	4 : 3
● K65"	● F21"	● W19" (1440 x 900)	● 19" (1280 x 1024)
● K55"	● F17"		● 17" (1280 x 1024)
● K43"			
● K32"			

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