8M-B120C

8K
7680 × 4320 Pixels

120” 8K UV²A LCD

Самый большой в мире профессиональный дисплей

Игорь Наумов

Visual Solutions

8K ECO System

LFD 8K Professional Monitors
Video Walls
32” 8K Colour Management-Monitor
8K Cameras
5G Transmitions Systems

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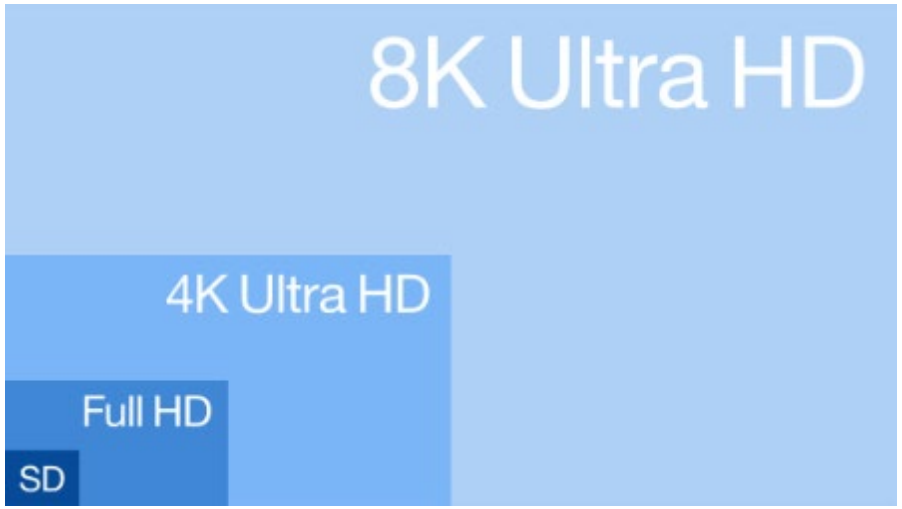
8K Resolution, 7680 x 4320 pixel in 16:9

That is driven by LCD manufacturer like SHARP

Resolution	Aspect ratio	Megapixel
8192 × 8192	1.00:1 (1:1)	67.1
8192 × 5120	1.60:1 (16:10)	41.9
8192 × 4320	1.89:1 (17:9)	35.4
7680 × 4320	1.78:1 (16:9)	33.2
7680 × 3200	2.4:1 (24:10)	24.6
7680 × 2160	3.$\overline{5}$:1 (32:9)	16.6



Resolution:

8K is fore times 4K resolution

8K is sixteen times Full-HD resolution

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Value Proposition

8M-B120C

Worldwide the biggest 8K display in 120”, 304,8 cm diagonal

8K
7680 × 4320 Pixels

You can bring in this beautiful 8K monitor the information of 4x 60” 4K monitors or 16x 30” FHD monitors. A Harley Davidson motorcycle fit on to the 120” screen in original size because they are smaller than 2,66 m wide. The monitor is made for 16/7 business hours operation in landscape mode and shows precise information in HDR picture quality.

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Automotive is using CAD virtual systems

The Smart is fitting (mostly) at 120”

Bezel 27 mm

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Input List
Input
Switchable
Switchable
Switchable
Switchable

For museums you need a high resolution image

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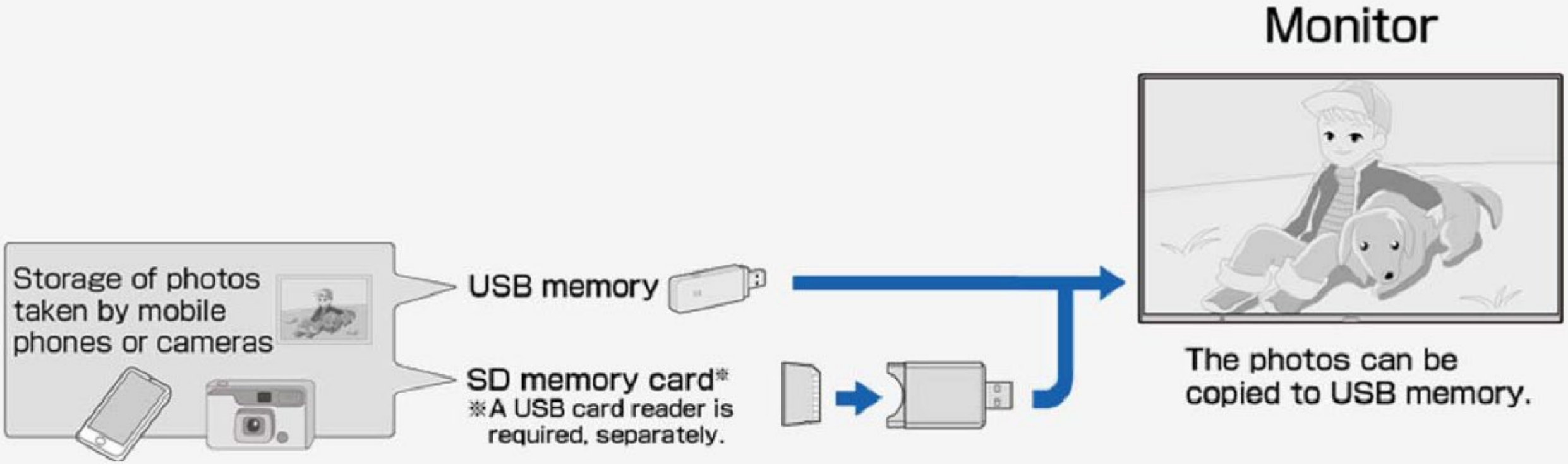
■ Example application: 8K theater configuration

USB Media


Monitor
Storage of photos taken by mobile phones or cameras
USB memory
SD memory card※
※A USB card reader is required, separately.
The photos can be copied to USB memory.

USB Media

Photo file format

- JPEG (jpg) (DCF2.0-compliant)
- Maximum resolution (image size): 16384 x 16384 pixels
- Minimum resolution (image size): 32 x 32 pixels
- If a JPEG still image file is large in size, the file may require time to display the photo.

Music file format

- FLAC (.fla)
  Bit rate: 128k to 2304kbps
  Sampling frequency: 8k, 16k, 22.05k, 24k, 32k, 44.1k, 48k, 88.2k, 96k, 192kHz
  Quantization bit rate: 8bit, 16bit, 24bit
- MP3 (.mp3)
  Bit rate: 32 to 320kbps
  Sampling frequency: 32k, 44.1k, 48kHz
- WAV (.wav)
  Bit rate: 64 to 1536kbps (LPCM)
  Sampling frequency: 32k, 44.1k, 48kHz
- WMA (.wma)
  Bit rate: 32 to 384kbps
  Sampling frequency: 8k, 11.025k, 16k, 22.05k, 32k, 44.1k, 48kHz
- AAC (.m4a / .aac)
  Bit rate: 1 to 1728kbps
  Sampling frequency:
  8k, 11.025k, 12k, 16k, 22.05k, 24k, 32k, 44.1k, 48kHz (AAC)
  16k, 22.05k, 24k, 32k, 44.1k, 48kHz (HE-AAC)

USB Media

Video file format

- m2ts, mp4, 3gp (AVC, H.264/MP3, AAC)

NOTE

- jpeg files in progressive format cannot be supported.
- 3D-form photos cannot be supported.
- Music files in USB1.1 device may not be played properly.
- Depending on a certain type of USB memory devices, the stored data may not be recognized in Monitor.
- The file name may not be displayed if length of the file name exceeds 80 characters.
- Files may not be played properly even if their file format is supported.
- Music files which are subject to copyright protection may not be played properly.

Essential for high-performance business.

The ability to quickly create or analyse extremely precise data is critical to enhancing productivity and enabling more effective decision-making.

Clearly better designs

Businesses are creating increasingly sophisticated digital drawings, designs and blueprints using Computer Aided Design (CAD) or Computer Aided Manufacturing (CAM) applications. The one limiting factor has been the ability to display this information with exceptional clarity and precision – until now.
With the 8M-B120C even the most complex designs can be examined in minute detail. And its lifelike realism is also facilitating the use of virtual reality, making it much easier to assess how new products or machinery will look and perform in the real world.

Bringing video to life

High quality video production is obviously essential in the TV and Broadcasting industry. So the 8M-B120C allows businesses to edit extremely high-resolution graphics and video and create incredibly realistic content.

More detail, more control

For some professionals, the ability to track vital information can literally be a matter of life or death. So having access to reliable high-quality images can aid fast, safe decision-making. Surveillance operators and emergency services workers have to monitor large numbers of CCTV camera images on one screen. So the greater the resolution the less risk there is of incidents being missed or suspects escaping because their facial features are unclear. Similarly, public transport companies can monitor the movement of multiple vehicles simultaneously, so there is less confusion and possible delays.

Fast, precise data analysis

Speed is essential in high pressure commercial environments like energy businesses, financial centres and commodities trading floors. Every day bankers and dealers have to rapidly digest an endless stream of graphs, images and screens full of small text. But one simple mistake in reading all of this complex information, like a missed digit, can result in potentially huge losses. So the ability to process a large amount of information, which is both clear and extremely legible, on one screen not only enhances productivity, but also reduces the level of risk.

Key Features

- 120” (304,8 cm) Size LCD 120” is a very good size to have up to 16 image on one screen
- LCD Panel/matrix – Original SHARP UV2A
- 8K Resolution 7680 x 4320 Pixels 8K is sixteen times Full-HD resolution
- 600 cd/m² Brightness (Peak 1.000 cd/m²)
- Local Dimming, 2048 zone, bring the contrast dramatically high; Fan less architecture
- MultiScreen 4K x 4
- Colour Gamut: BT2020
- Static Contrast 3500 : 1
- 120Hz Frame-Doubler
- USB Media Player (video mp4 4K@30, photo jpg 16K pixel)
- HDR10 (High Dynamic Range) HDR functionality with HLG. HDR expands the range of both contrast and color significantly. Bright parts of the image can get brighter, so the image seems to have more depth. Colors get expanded to show them more saturated.
- 10-Bit Extended Colour Range 8M-B120C covers 81% of color gamut according to the BT2020 standard.
- TTL 9 HDMI inputs, 4x HDMI2.0a inputs, 1x HDMI2.1

8K@60fps Input

For the UV²A LCD we use a 120Hz frame doubler

Compatible Signal Timing (PC)

Screen Resolution		Horizontal Frequency	Vertical Frequency	HDMI			
				INPUT 1	INPUT 2/3/4	INPUT 7	INPUT 8
4K	3,840 × 2,160	54.0 kHz	24 Hz	●	●	●	●
		56.3 kHz	25 Hz	●	●	●	●
		67.5 kHz	30 Hz	●	●	●	●
		112.5 kHz	50 Hz	●	●	●	●
		135.0 kHz	60 Hz	●	●	●	●
8K	7,680 × 4,320	108.0 kHz	24 Hz	—	—	●*1*2	●
		110.0 kHz	25 Hz	—	—	●*1*2	●
		132.0 kHz	30 Hz	—	—	●*1*2	●
		220.0 kHz	50 Hz	—	—	●*1*2	●
		264.0 kHz	60 Hz	—	—	●*1*2	●

Compatible Signal Timing (AV)

Screen Resolution		Frequency	HDMI			
			INPUT 1	INPUT 2/3/4	INPUT 7	INPUT 8
4K	3,840 × 2,160	24 Hz	●	●	●	●
		25 Hz	●	●	●	●
		29.97 Hz	●	●	●	●
		30 Hz	●	●	●	●
		50 Hz	●	●	●	●
		59.94 Hz	●	●	●	●
		60 Hz	●	●	●	●
8K	7,680 × 4,320	50 Hz	—	—	●*1*2	●
		59.94 Hz	—	—	●*1*2	●
		60 Hz	—	—	●*1*2	●

*1: Uses Mode 2 display mode. *2: Input 7's A to D connectors each support input signals of 3,840 × 2,160 resolution.

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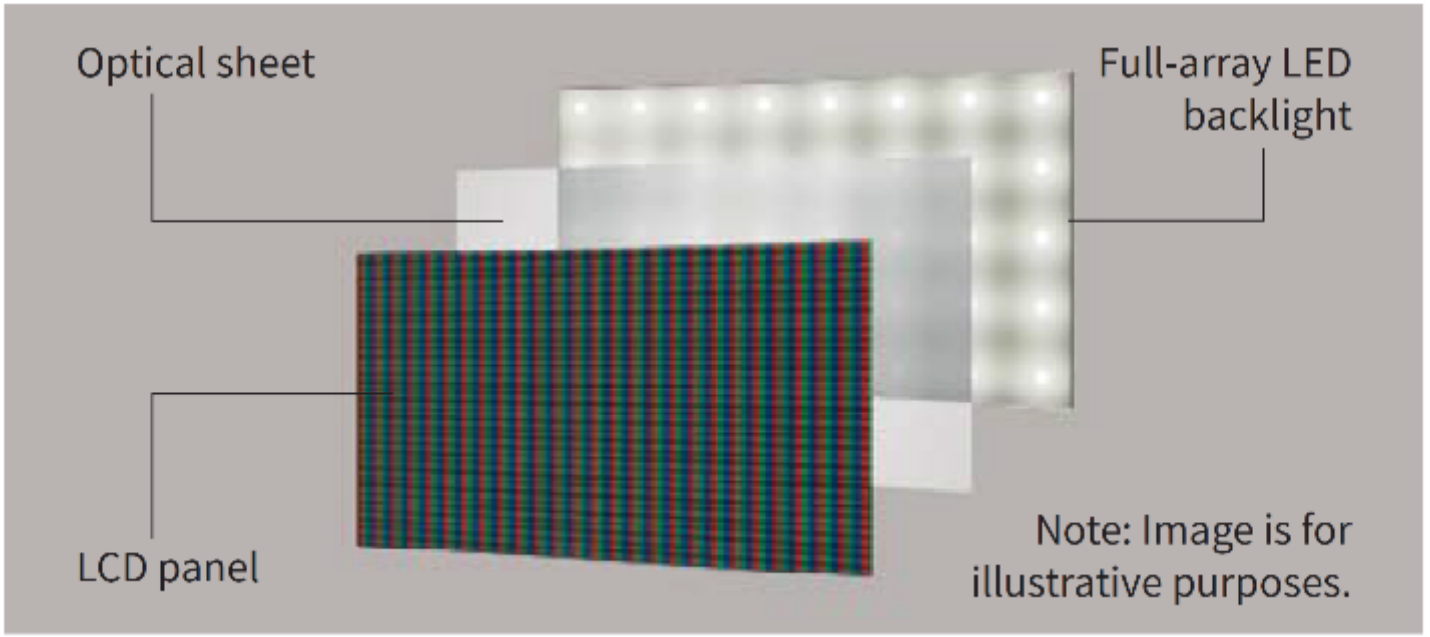
LED full array backlite

Area-divided full-array LED backlight

The backlight's LEDs sit behind the LCD panel in 2,048 uniform areas. The brightness of the LEDs is controlled independently for each of these areas. Light and dark areas are more distinct, and contrast is improved to deliver lifelike images.



4K multi - screen mode

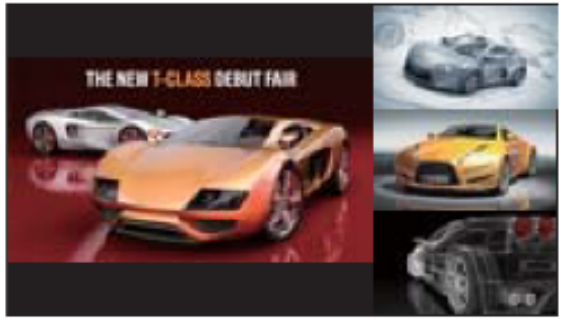
Multi-screen and other display modes

Content in resolutions up to 4K can be enlarged and upscaled to 8K by the LCD monitor. It can also connect to four PCs via video cables to show content from the PCs on one large screen (a 2 × 2 split screen). You can also choose where to show each image on the screen or display them in a size of your choice.

Mode 1 displays enlarged content in up to 4K resolution (upscaled to 8K)

Mode 2 shows four 4K images to display in 8K resolution

Mode 3 displays four different images (multi-screen)



Mode 4 displays four different images in varying sizes (flexible multi-screen)

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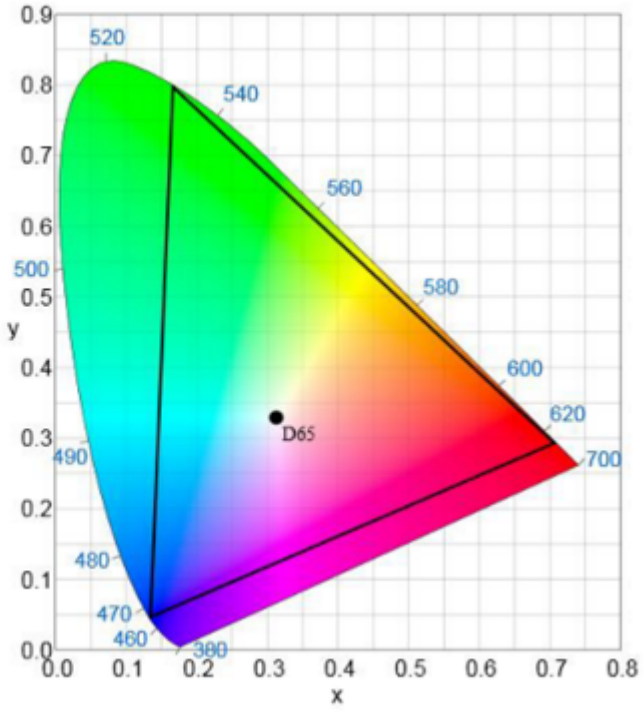
HDMI 2.1

Both uncompressed and compressed bandwidth are supported and enabled to deliver a full range of features

Supports the latest color spaces such as BT.2020 with 10 or more bit colors now at higher frame rates, and also supports 12,14, and 16 bit color

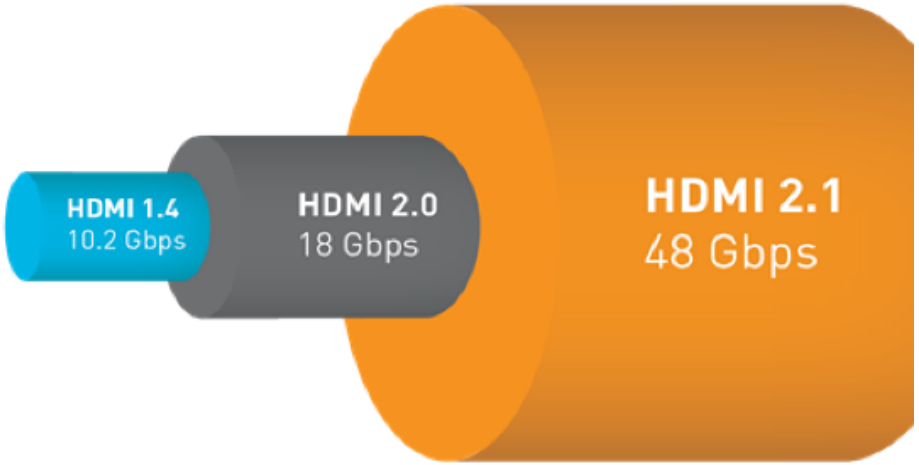


CIE 1931 chromaticity diagram showing the Rec. 2020 (UHDTV)color space in the triangle and the location of the primary colors

By CIExy1931.svg: Sakuramboderivative work: GrandDrake (talk) – CIExy1931.svg, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=21864651

Supports the full range of uncompressed HDMI 2.1 Specification features including 8K video with HDR

Enables up to 48Gbps bandwidth



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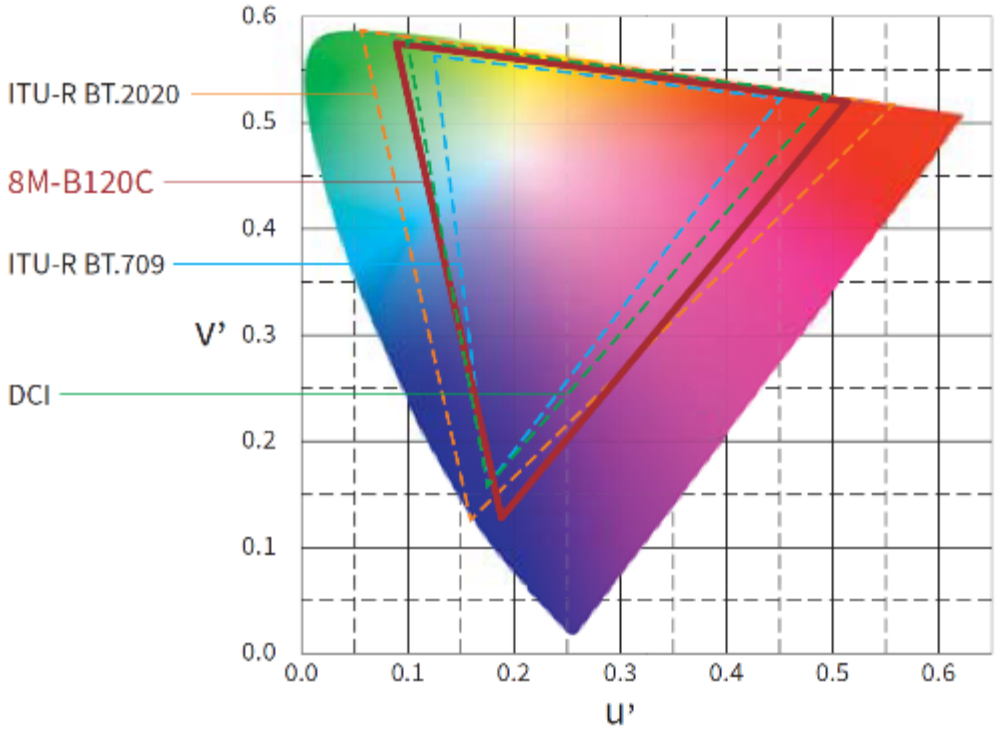
BT2020 wide colour gamut

One billion colours for exceptional vividness

The 8K display employs a wide-colour-gamut colour filter and optimised LED backlight phosphors. This allows the display to reproduce a rich colour gamut (ITU-R BT.2020). You'll see improved reproduction of reds—a tell-tale measure of vividness—and improved gradations of red, blue, and green in the pixels. The rich colour palette of an 8K monitor adds depth to content and brings the entire screen to life.



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Wacke-up

	CEC	Wake up via HDMI	LAN	RS232C
PN-HB/HM	no	yes	yes	yes
PN-R	yes	yes	yes	yes
PN-Yxx6P	no	no	no	(yes)
PN-HW	yes	yes	yes	yes
8M-B120C	**yes**	**no**	**no**	**no**

The only way to control via LAN:
But no power ON via LAN

Fan less architecture

No noise at all

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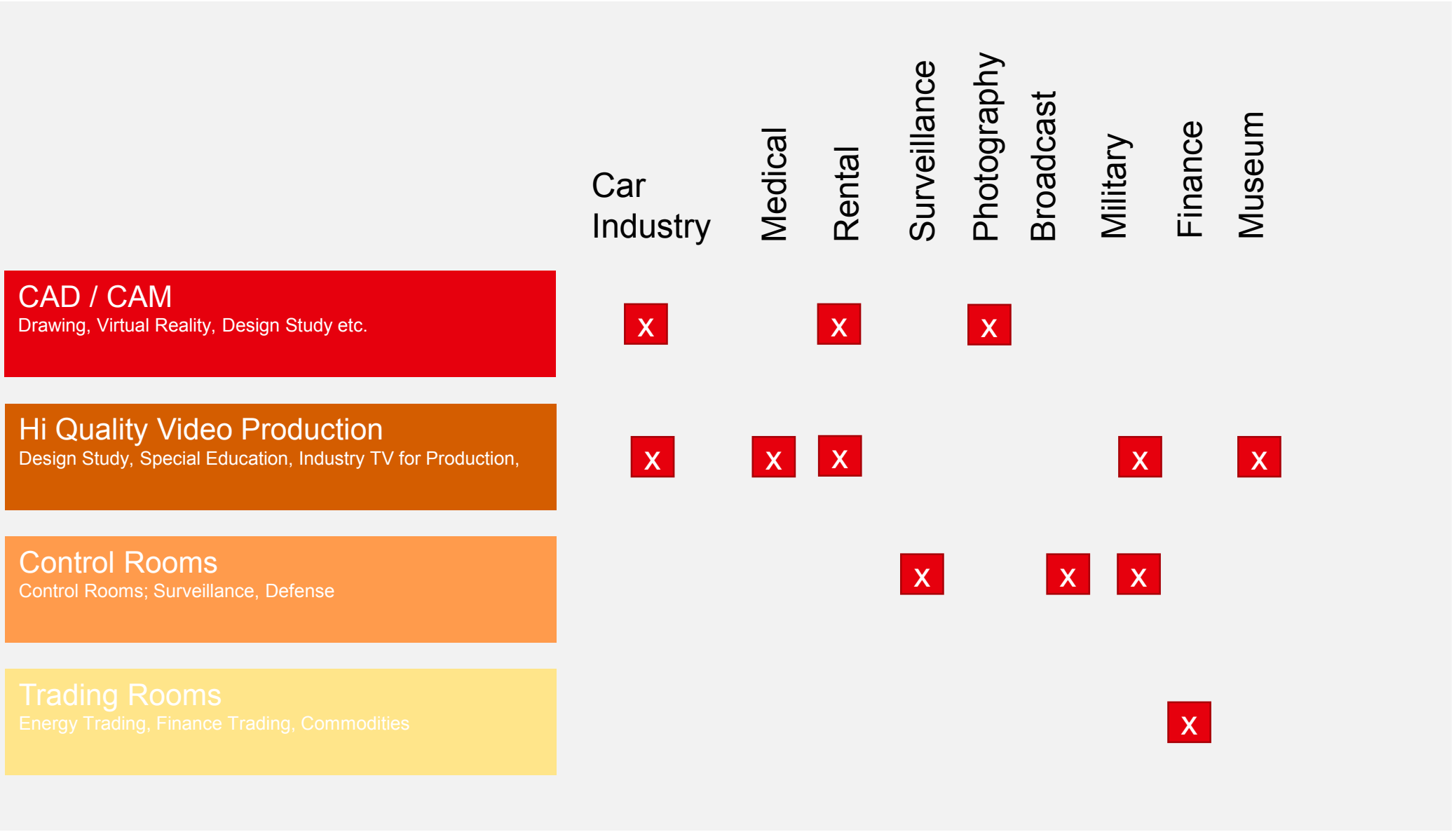
Target applications



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Medical

We don’t have DICOM but we have the best precise native resolution.

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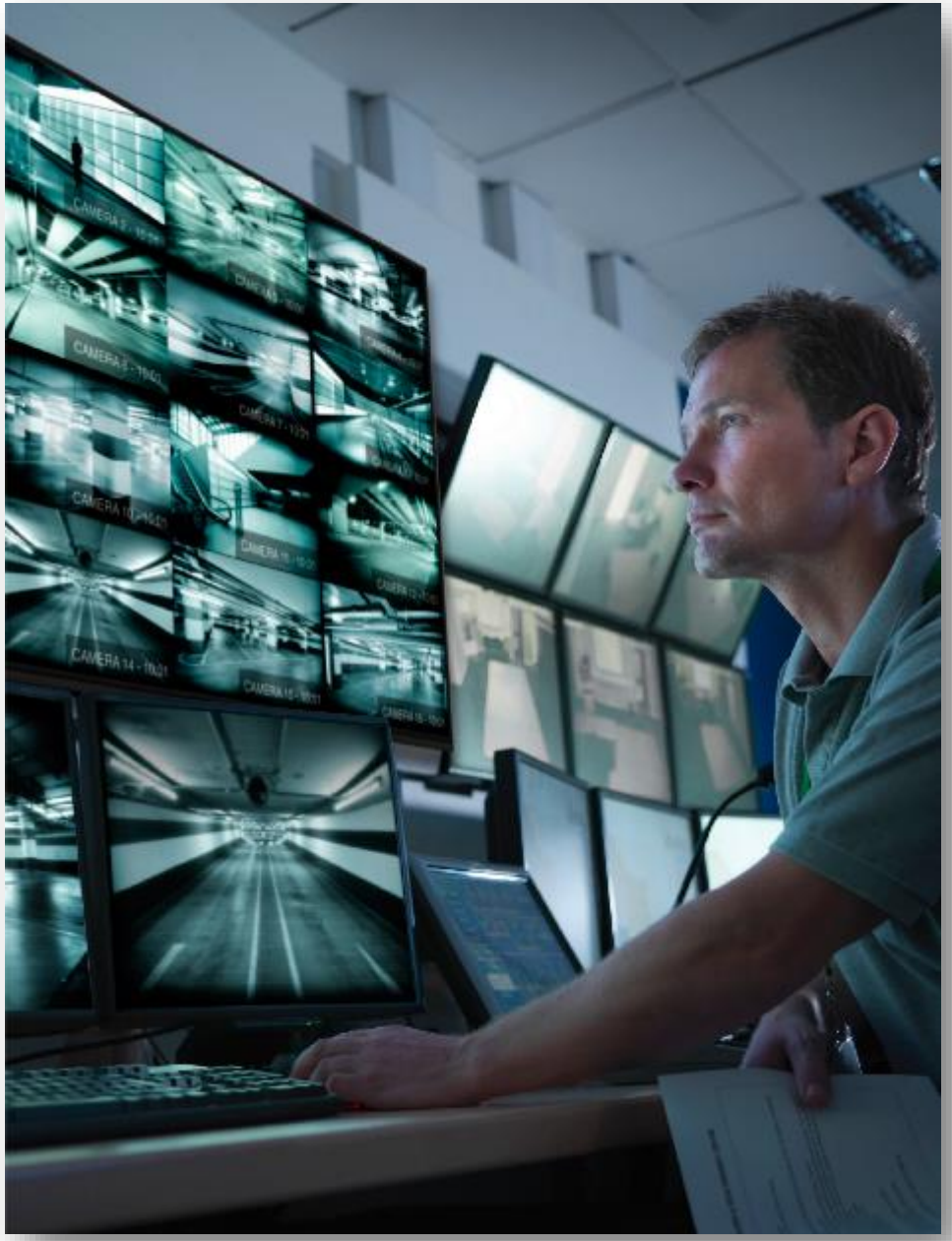
Datapath and Matrox

have surveillance systems where there need 16 Full-HD channel

Our 8M-B120C can do that on one screen and the Size will be still 30” per picture because we have 4 m² size



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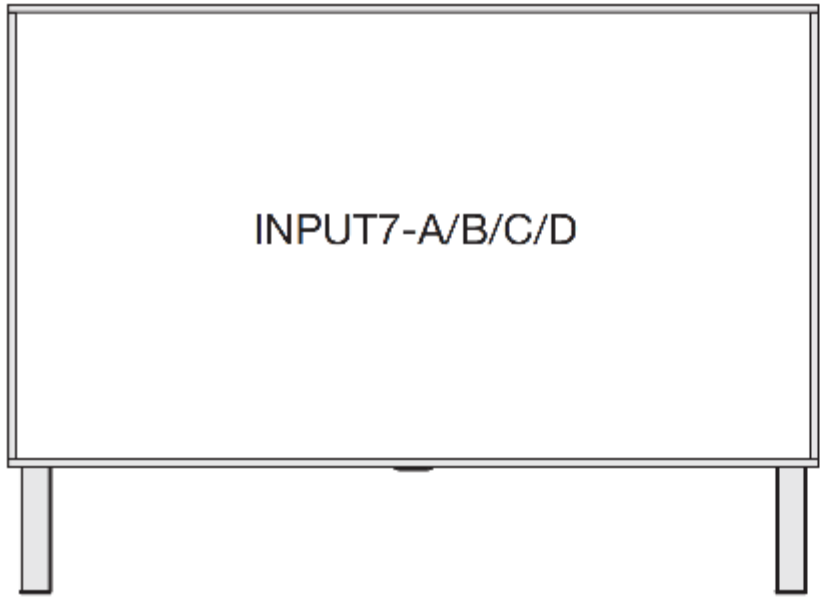
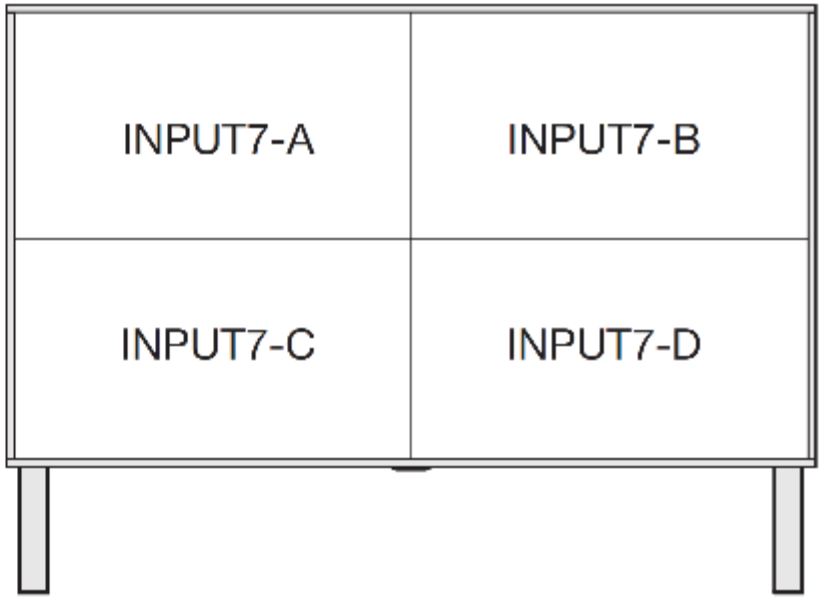
Specifications

LCD panel	Display size	120" class (106-1/32 inches (2693.28 mm) wide x 60-17/64 inches (1530.72 mm) long/120-1/32 inches (3048.82 mm) diagonal)
	Drive system	TFT (thin-film transistor) active-matrix drive system
	Pixel count	7,680 (horizontal) x 4,320 (vertical) pixels
	Light source used	LED
Speaker		Tweeter x 2 pcs, Middle range x 2 pcs, subwoofer x 2 pcs
Maximum effective output power		70 W (10 W+10 W+10 W+10 W+15 W+15 W)
Operating temperature		32°F (0°C) to 104°F (40°C)
Applied power supply		AC 200-240V 50/60Hz
Power consumption		1520 W (during standby: 0.5 W)
Connection terminal		HDMI input terminals (INPUT 1: HDR (PQ/HLG) compatible, INPUT 2: ARC-compatible) x 4, HDMI (8K) input terminal (INPUT 7: HDR (PQ/HLG) compatible, HDMI x 4) x 1, HDMI (8K) input terminal (INPUT 8: HDR (PQ/HLG) compatible, HDMI x 1) x 1, AV input (Shared with audio input) terminal x 1, analog audio output terminal x 1, digital audio output (optical) terminal x 1, headphone terminal x 1, USB terminals x 2, LAN terminal (10BASE-T/100BASE-TX) x 1, analog RGB (PC input) terminal x 1
External dimension W x D x H		The display only: approx. 106-31/32 x 6-13/16 x 61-21/32 inches (2717 x 173 x 1566 mm) With the stand: approx. 106-31/32 x 31-11/16 x 77-29/32 inches (2717 x 805 x 1979 mm)
Weight		The display only: approx. 412.3 lbs (187 kg) With the stand: approx. 454.1 lbs (206 kg)

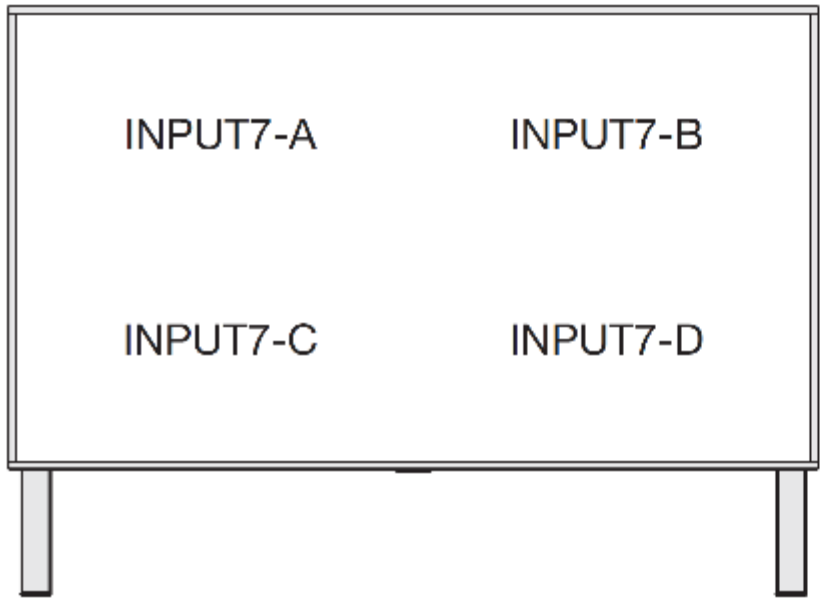
Mode1 (4K x1)



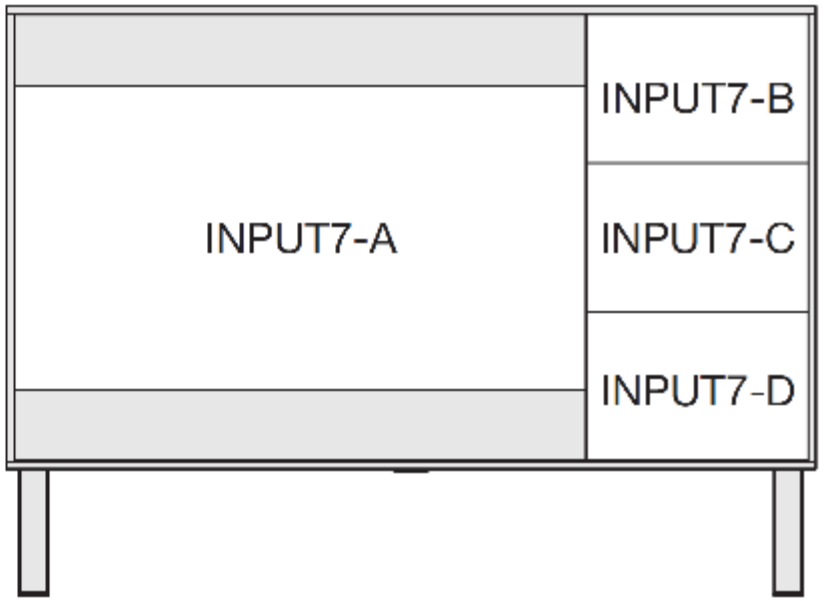
Mode2 (8K)



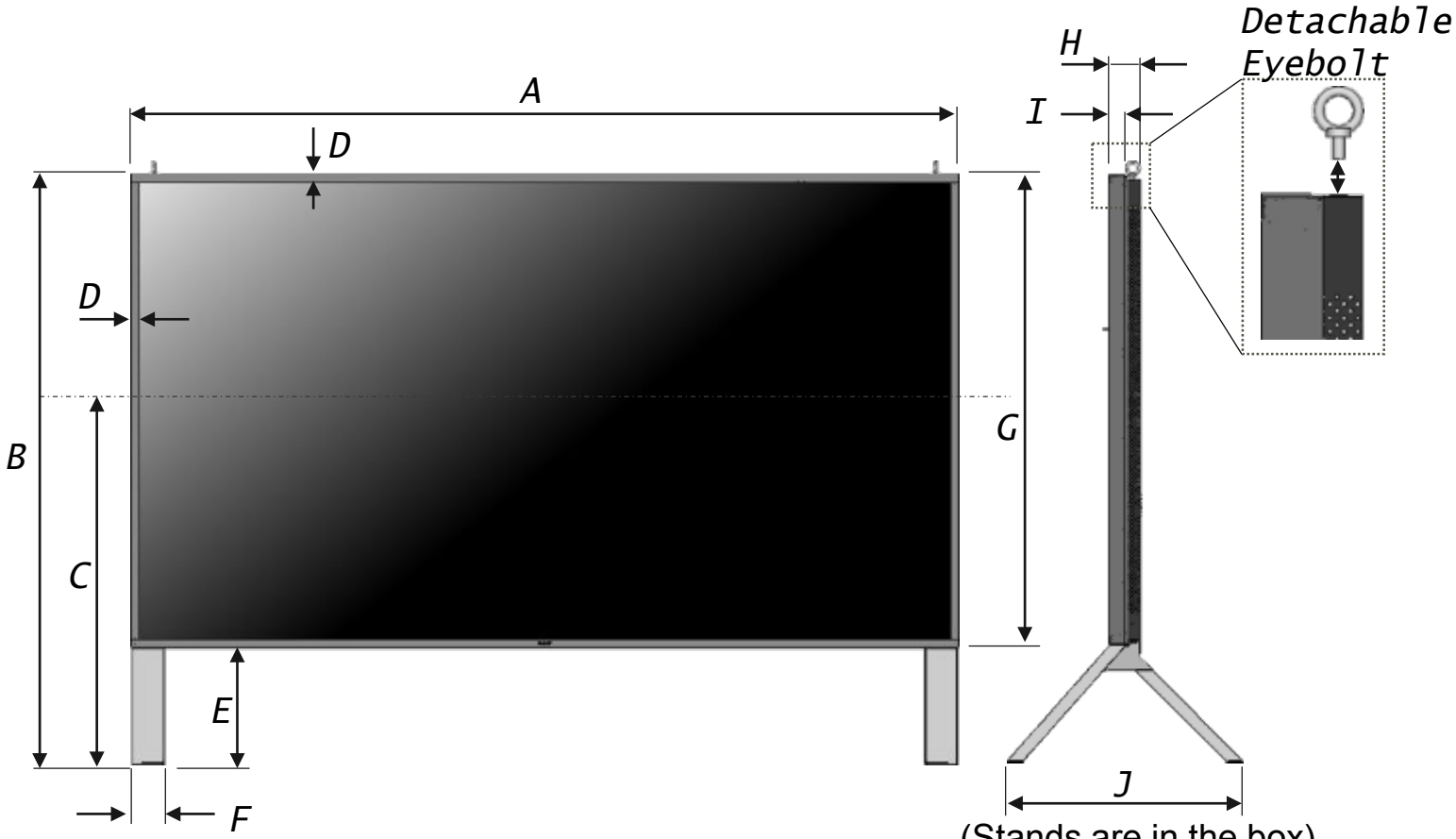
Mode3 (4K x4)



Mode4 (4K x4)

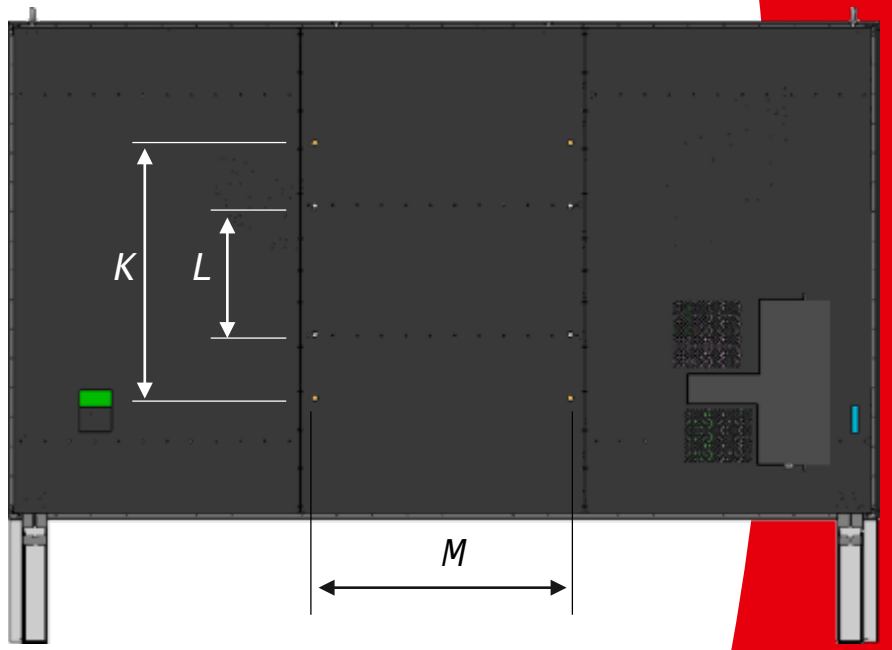


Dimensions



(Stands are in the box)

(Eyebolts can be used temporary for setup)



mm

	A	B	C	D	E	F	G	H	I	J	K	L	M
SHARP	2717	1947	1170	27	392	110	1555	100	50	774	800	400	800

Weight: 187 kg without stand, 206 kg with stand

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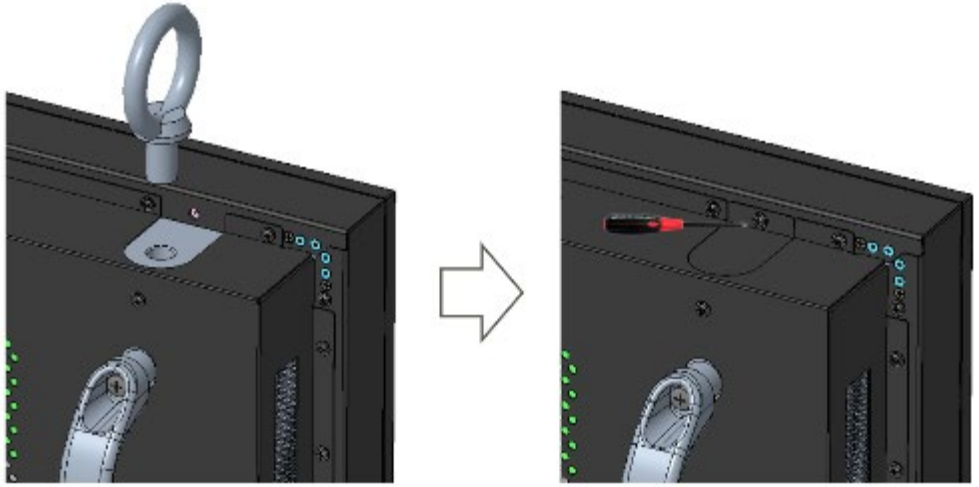
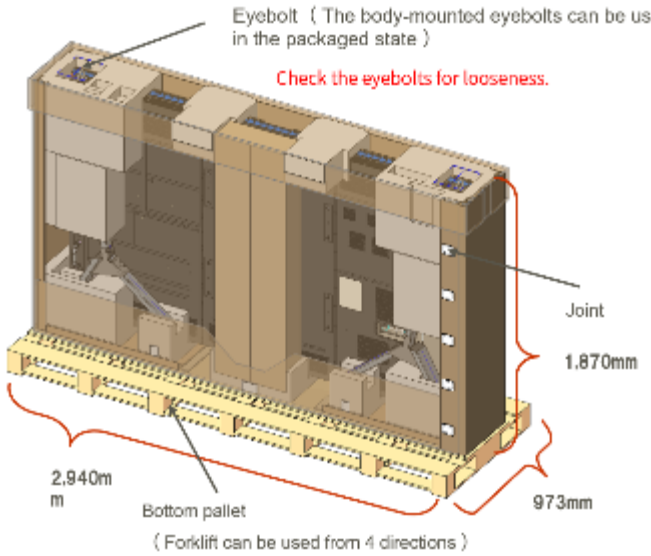
Eyebolts to fly the display during installation





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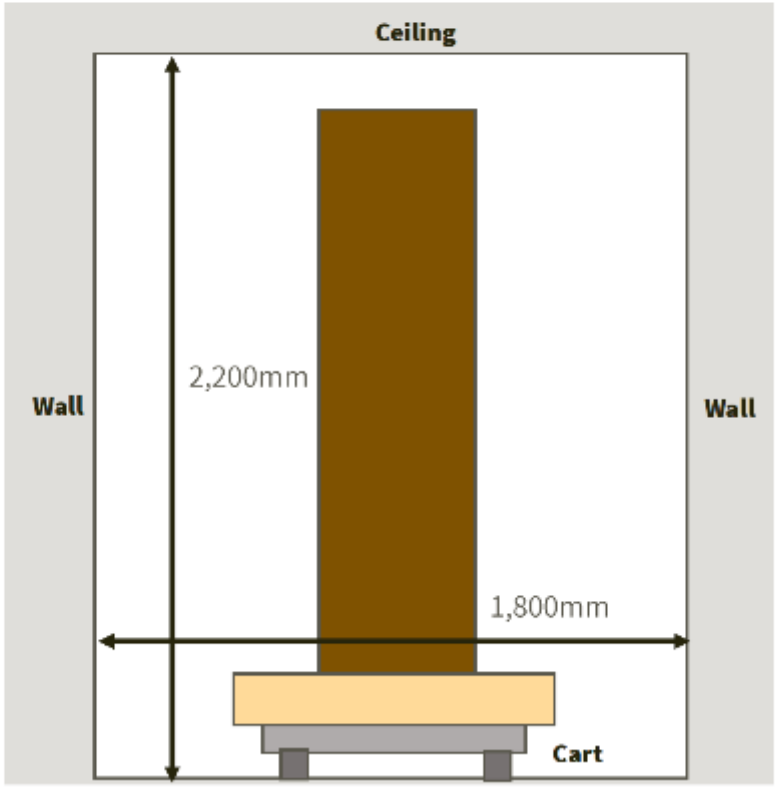
Please take care for transportation

Carry in space

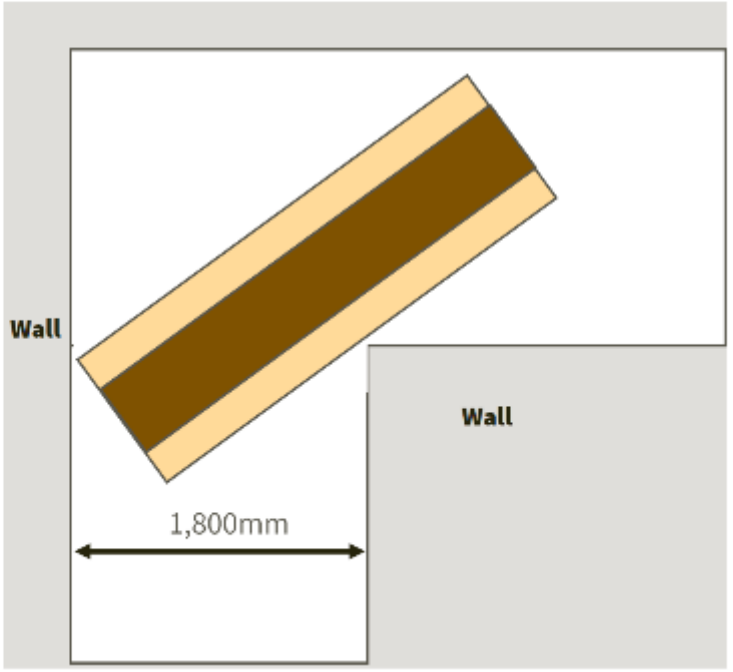
A cart should be used for transportation.

In order to transport the packed product with a cart, following space is necessary.
(In case width of a cart is <900mm and height of a cart is <150mm)



	Width	Height
Packed display	973mm	1,870mm
Cart	900 mm	150mm
Margin	–	Upper 100mm
Carry-in space	> 1,800 mm	> 2,200mm

＊Width is calculated from the corner space



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Size of elevator

Use of elevator

〔1〕 Accommodation space

When using an elevator to transport, followings are the minimum size of the elevator.

※ In case transportation in landscape position is impossible, it may be transported temporary in portrait position.

Caution : Take care not to hit the package against the elevator door or the wall while carrying the display into the elevator.

	Width	Depth	Height
Packed display	973mm	2,940mm	1,870mm
Cart	> 900mm	—	> 150mm
Carry-in space	> 1,000mm	> 3,000mm	> 2,200mm

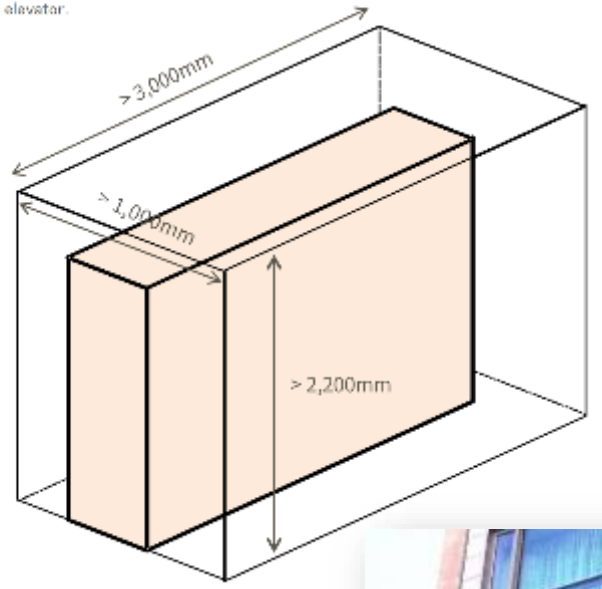

photo by Lang AG, Sharp LB-1085, 108“

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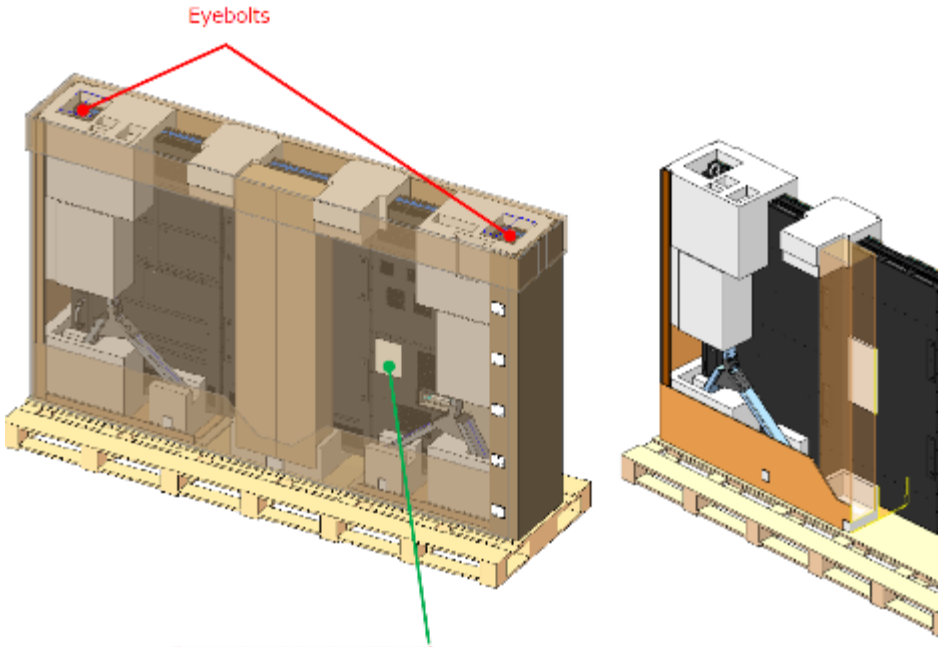
Аксессуары в комплекте в коробе с панелью

Main Accessories

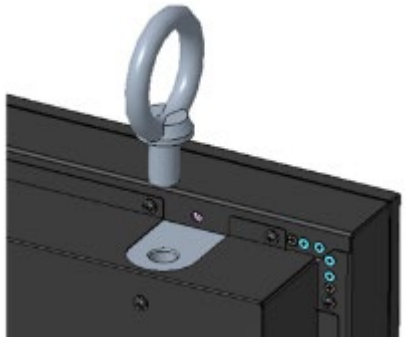
Floor stand

(Image is for illustrative purposes)

Wall-mounting brackets



- Напольный стенд
- Настенные брекеты
- Петли подъёмные



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Trolley for 8M-B120C is available at B-TECH

B-TECH AV MOUNTS

B-TECH

BT8508

SYSTEM X™

IDEAL FOR EXTRA-LARGE INTERACTIVE DISPLAYS

AV AWARDS 2017
MANUFACTURER OF THE YEAR
WINNER

The BT8508 is a mobile solution designed to mount Microsoft's 84" Surface Hub and other extra-large interactive displays over 72". Capable of supporting heavy duty loads, the trolley has a welcome rigidity which means mounted touchscreens do not move or flex whilst in use. Levelling screws allow easy height adjustment of the screen once mounted and integrated cable management keeps finished installations neat and tidy. Non-marking 4" braked castors allow the trolley to be re-located easily and safely without marking or scuffing floor surfaces.

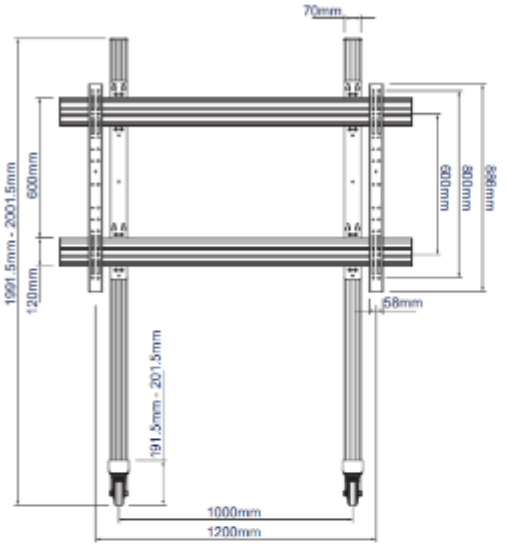
SPECIFICATION	
Recommended screen size	72" - 120"
Recommended surface hub size	84"
Max load	200kg
VESA® and non-VESA fixings	up to 1400 x 800
Dimensions	W: 1505mm H: 2002mm D: 950mm
Colour option (columns)	Black or Silver
Colour (base)	Black

FEATURES

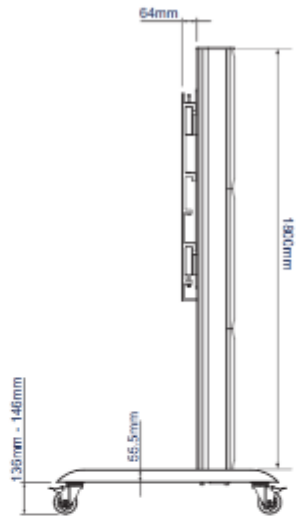
- Designed to mount Microsoft's 84" Surface Hub display
- The universal design is ideal for other standard or interactive screens 72" and over
- Interface arms include levelling screws to adjust the height of the screen
- Safety screws help prevent unauthorised removal of screens
- Includes non-marking 4" locking/braked castors & alternative levelling feet
- Integrated cable management
- Shelves and other accessories can be fitted directly to a column or to the rails using the BT8800 SA (available separately)

SYSTEM X

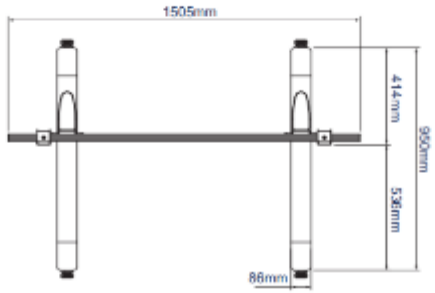
TECHNICAL DRAWINGS



FRONT VIEW



SIDE VIEW



TOP VIEW

B-TECH AV MOUNTS

SHARP
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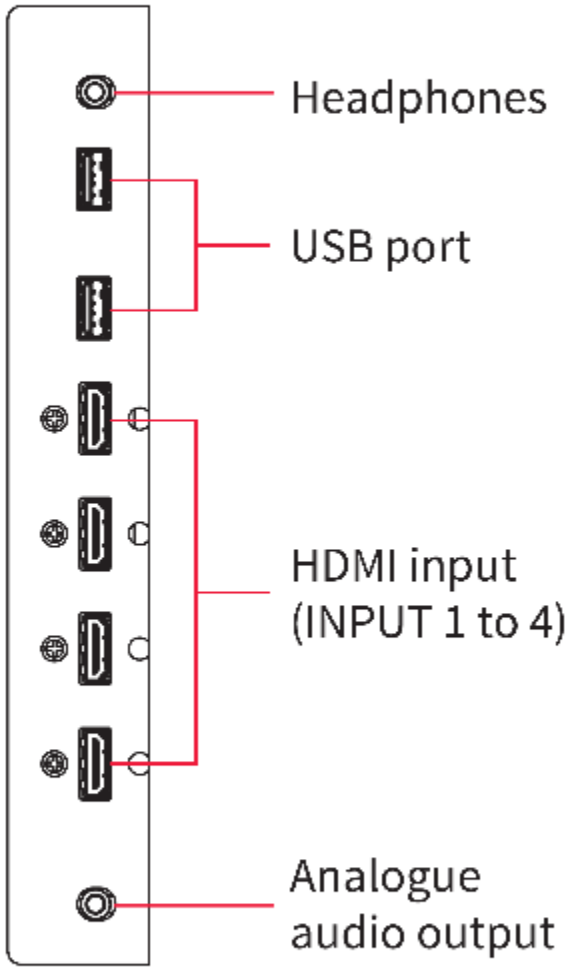
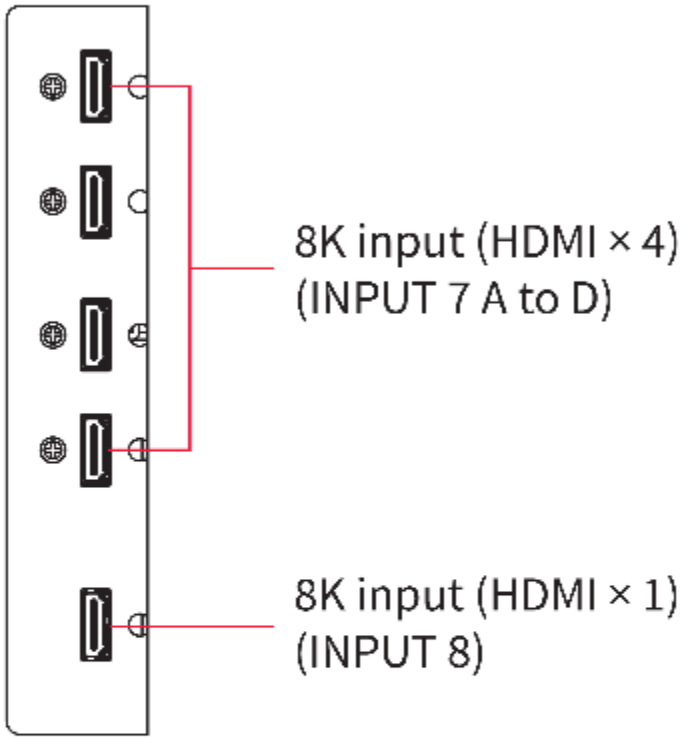
Input/Output Terminals

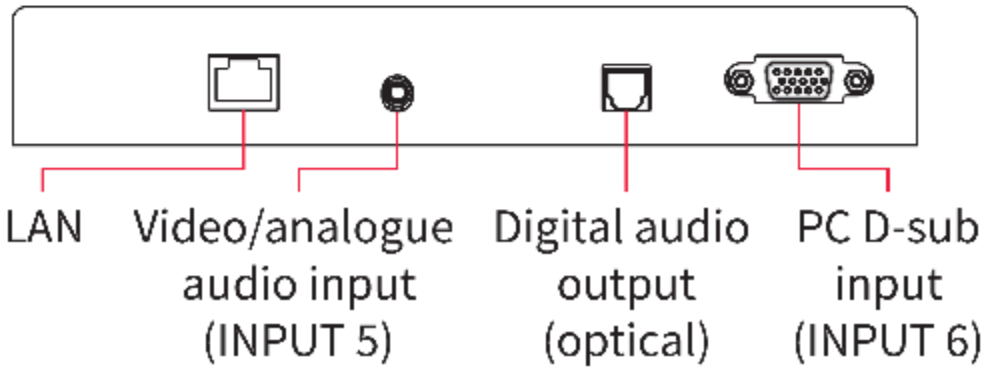
(Side)



(8K side)



(Bottom)



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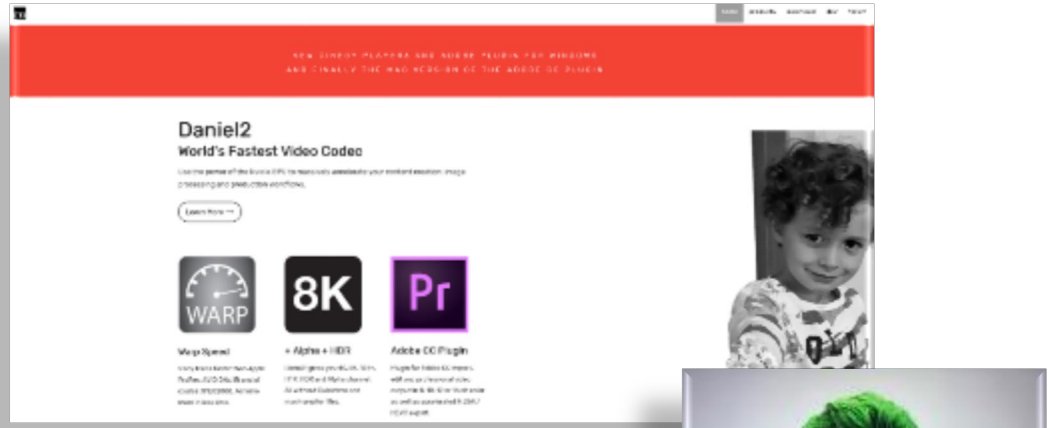
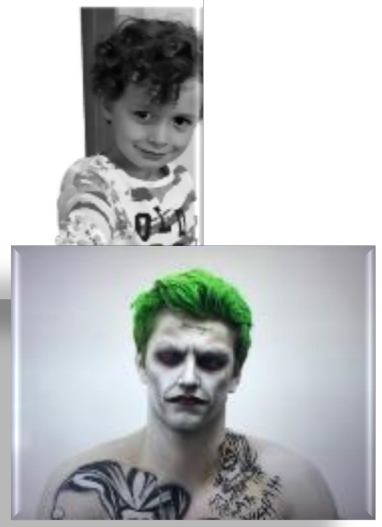
How to feed the display with content in 8K on low cost:

The native 8K equipment is expensive, but we found a way together with Cinergy to make it happen.
For a Workstation with Grass Valley codec you need to invest about 20K EUR.
We found a way for around 2,3K EUR.





You need the following PC hardware as minimum spec:
PC Intel Core i5-9600K, 8GB RAM, 2TB SSD, Windows 10Pro 64 Bit, Nvidia P4000 graphic
(Do not spec it down at all, that is really minimum!)

4x Club-3D DP to HDMI1.2a active adapter cable, 4K@60Hz
https://www.club-3d.com/en/detail/2365/

You need the following software:
https://www.daniel2.com/index.php/download
Cinegy Player 3 for Windows
Play Daniel2 video files and most other professional formats (MP4s, XDCAM, XAVC, AVC-Intra, ProRes). Added support for NVIDIA accelerated HEVC MP4 playback up to 8K.
Press the button to the right to go to the download request form. Requirements: PC running Windows 10 64bit with NVIDIA graphics card (Maxwell or newer) with 4GB RAM for 8K playback
Player license:
This player is FOC for 45 days, you need a online connection, if you be online and make re-registration after 44 days you again 45 days FOC and so on.
If you have no chance to be online, you can buy a USB dongle for around 110 EUR once.

Product demos:

Due to BIG SIZE we cannot send this model cross Europe!
We need to fly your customer to the 120” display.

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The world wide production of 8M-B120C quantity is limited.

- The mass production will start November 2020
- Sales start in Europe: January 2021
- First PO in, is first delivery out
- Save your unit with an pre-order

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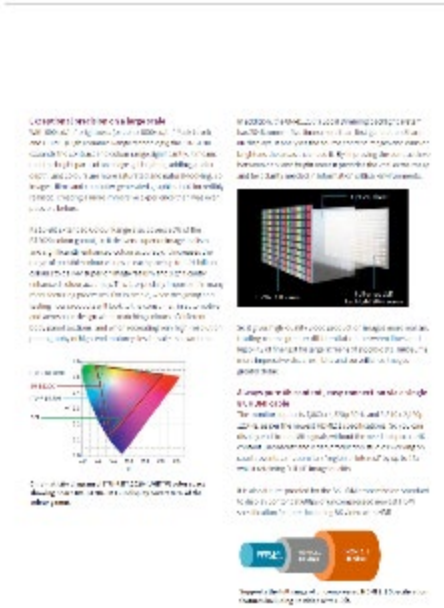
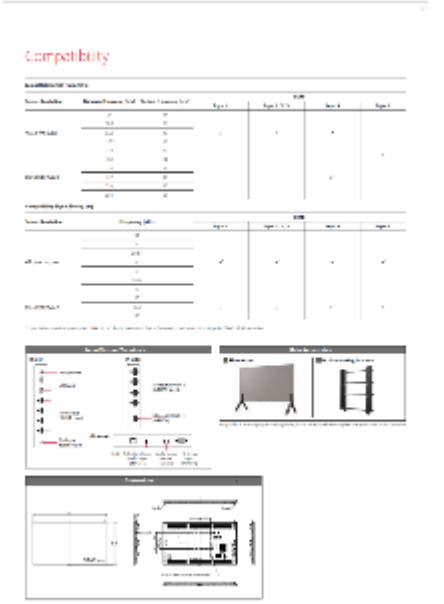
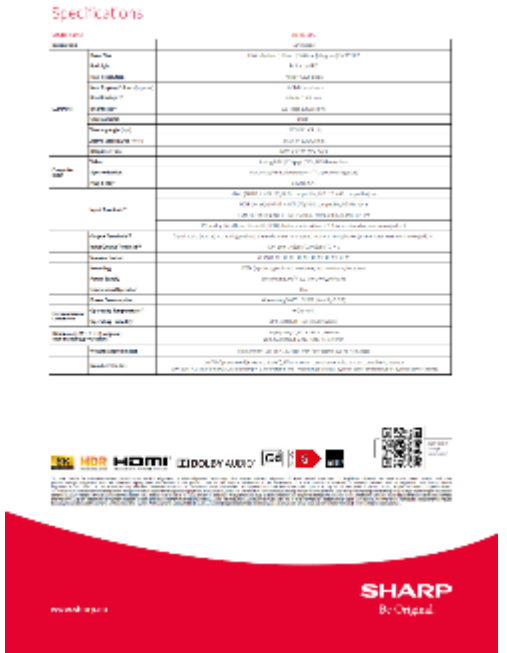
120” 8K UV²A LCD electronic display for professional use







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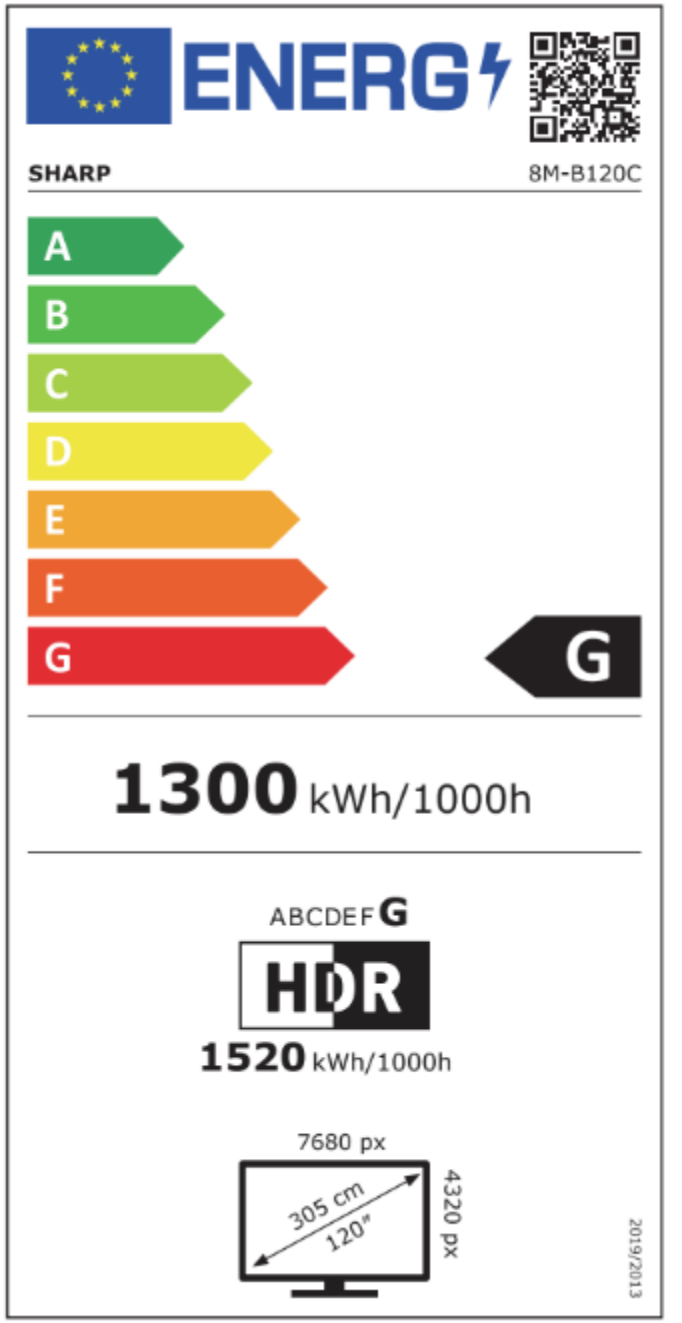
New Energy Label for ErP Lot5



Thank you

www.sharp.co.uk

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