

4K2K - High Resolution Displays and Input Options



4K2K Displays

4K2K DISPLAYS Bigger Pictures, More Details and Depth



Why 4K2K?

Highest Resolution

With approximately 4.000 pixels horizontal (4K) by 2.000 pixels vertical (2K), 4K2K technology equals 4 times Full HD and offers high values for contrast and enhanced color. 4K2K technology can be seen as a synonym for the new high resolution display technology sometimes referred to as Ultra HD (3.840 × 2.160) and / or 4K (4.096 × 2.160).

Medical Applications

A revolutionary display technology for medical applications, 4K2K displays allow users to view the finest image details. This feature is especially useful in applications such as surgical and endoscopy where the smallest detail is critical and may not be visible with a Full HD resolution.

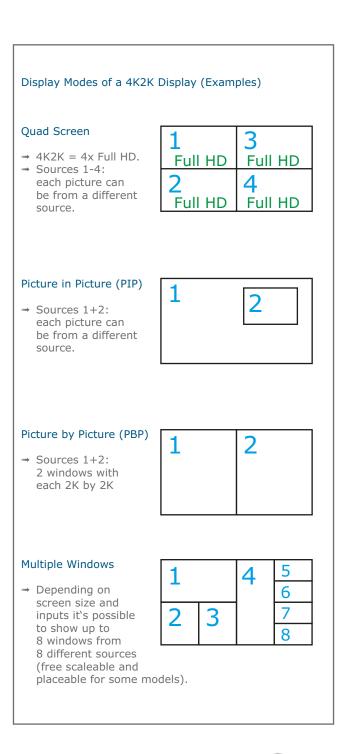
Industrial Applications

4K2K displays are ideal when using industrial endoscope tools for the internal inspection of machinery. The images shown on a 4K2K display enhances views to the degree of identifying micro-cracks. This advancement in technology will help to minimize the need to disassemble machinery for inspection, saving both time and money.

Multi-Modality

In addition to precise, high-quality images, 4K2K displays allows multiple windows to be displayed on one screen. Depending on the screen size and inputs, up to eight windows from eight different sources can be displayed on one screen – at one time. For example, a multi-modality display enables medical staff to view a camera input of an endoscope, as well as vital stats, and other patient information on one screen.

The 4K2K picture-in-picture function is especially useful in diagnostic interpretation. This function allows medical staff to view/compare two images side-by-side on a single screen in 2K by 2K resolution without losing image quality. In addition, only one calibration and gamma setting are needed when utilizing a single screen for multiple images. This multi-modality feature is also useful for industrial applications such as Control Centers in Transportation, Energy, Surveillance and Military markets.



4K2K DISPLAYS Overview of the Products

|--|--|--|--|--|--|--|--|

See on page	4	5	6	7	8	9	10	11
Size	23.8″	27″	31.5″	55″	55″	58″	65″	84″
Resolution				3840	× 2160			
Aspect Ratio				16	5:9			
Brightness (Panel)	300 c	cd/m²	650 cd/m²	450 cd/m ²	700 cd/m ²		450 cd/m ²	500 cd/m ²
Contrast	100	00:1	1700:1	4000:1	1450:1	4000:1	140	00:1
I/O Ports	4× DVI (HDM	I 1.4 compliant), 2 1× VGA, 1× US		2a compliant),	4× DVI-D, 4× Display Port, 1× VGA, 3× CVBS (BNC)	2× DVI-D Dual, 2× Display Port, RS-232 (service), 2x USB Hub, 2x USB	1× DVI-D, 1× Display Port	4× Display Port
Housing	Plastic				Metal			
Dimensions W×H×D (mm)	tbd.	659.6×408.2 ×73.0	758.4×457.4 ×79.9	1314.0×785.0 ×85.0	1294.0×767.0 ×81.5	1318.5×795.0 ×138.0	1520.0×902.0 ×120.0	1955.0×1148.0 ×120.0
Dimensions W×H×D (in)	tbd.	26.0×16.1 ×2.9	29.9×18.0 ×3.1	51.7×30.9 ×3.3	50.9×30.2 ×3.2	51.9×31.3 ×5.4	59.8×35.5 ×4.7	77.0×45.2 ×4.7
Weight (kg)	7.0	9.0	10.5	46.0	40.0	52.0	55.0	160.0
Weight (lbs)	15.4	19.84	23.2	101.4	88.2	114.6	121.3	352.7
Power Consumption	tbd.	< 70 W	< 120 W	< 165 W	< 350 W	< 320 W	< 200 W	< 500 W
Power Supply		24 VDC		AC in 90~264 V	AC in 100~240 V	AC in 90~264 V	AC in 10	0~240 V
Mounting	100 :	× 100	100 × 200		400 × 400		400 × 750	500 × 750
Safety & Ergonomics (others on project base)	CE, FCC, EN	60601-1 3 rd on request CE, FCC, UL, EN-60601-1 3 rd			CE, FCC, UL/EN-60601-1 3 rd	CE, FCC, CCC, cTUVus/ EN-60601-1 3 rd	CE,	ссс
Misc.		True Flat , AG / AR Protection glass , IP65 front, PoP/PiP/PbP support, OSD Touch keys, fanless			With remote control, IP20	True Flat design, AR glass With IR Touch, trolley		uch, trolley
Options	GPIO ren	PCap, Ambient Light Sensor, GPIO remote control, 2× HDMI input instead of 4× DVI			Protection glass, Touch on project base	Se	e customizing opti	ons
Customizing Options		Interfaces, branding, boot logo, high brightness,						

Benefits Canvys 4K2K Displays

- Series available from 23.8" 84"
- 4× Full HD resolution
- Allows to show special sections with high details
- Multiple picture input by different sources
- Modern and easy to clean True Flat design
- Customizing possible: branding, boot logo, protection glass, ...
- Optional Projected Capacitive Touch (PCap); operable by 10 fingers or latex gloves
- High brightness solutions
- Long-term availability
- Medical certified and industrial versions available
- Free scalable windows

Markets / Applications

MEDICAL

- Surgery (operating room): monitoring with different inputs (camera, vital parameters, ...)
- Surgery (Minimally Invasive Operations)
- Diagnostics , Endoscopy, Microsurgery, Pathology

INDUSTRIAL

- Industrial Endoscopy for service, maintenance, ...
- Control Centers / Rooms, in Transportation, Energy and Military Industry
- Monitoring, Surveillance, ...

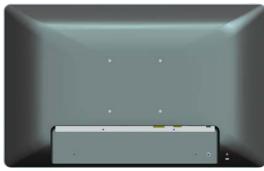
4K2K DISPLAYS Technical Specifications G-Line 23.8"

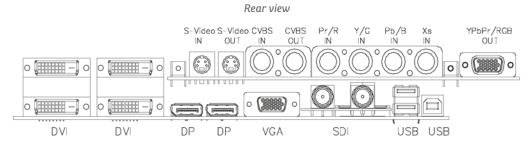


- 4K2K Display (Quad Full-HD / Ultra HD Resolution with 3840×2160 pixel)
- PoP/PiP/PbP: Multiple picture support
- True Flat design with AG protection glass and IP 65 front
- Medical Display (EN-60601-1 3rd)
- DICOM[®] compliant and color gamut adjustment
- Uniformity correction to meet ISO12646 or DIN6868-57
- LED backlight with low power consumption and backlight stabilization
- Optional with PCap Touch and high brightness



Model / Type			Canvys 23.8″ 4K2K Medical Display			
Size	Aspect Ratio		23.8″ / 60.5 cm	16	5:9	
Active Area (H × V)	Pixel Pitch		527.0 × 296.5 mm	0.137	25 mm	
Resolution			3840 × 2160 ,	/ Quad Full-HD		
Display Colors			1.0	17 B		
Response Time			GtG 14	ms typ.		
Brightness Panel	with AG glass	with PCap	300 cd/m² typ	270 cd/m ² typ.	250 cd/m ² typ.	
Contrast Ratio			1000	1 typ.		
Viewing Angle (H × V)			178° .	/ 178°		
I/O Ports		4× DVI (HDMI 1.4 compliant), 2× Display Port (1.2a compliant), 1× VGA, 1× USB hub, 2× USB; additional options see drawing of the interfaces below				
Power Consumption	Power Consumption Power Supply		tbd.	24 V DC		
Dimensions ($W \times H \times D$)			tbd.			
Weight			~ 7.0 kg	~ 15.4 lbs		
Safety & Ergonomics			CE, FCC, EN-60601-1 3 rd , others on project base			
Misc.		True Flat design with AG protection glass and IP65 front, PoP/PiP/PbP support, OSD Touch keys, fanless				
Options			PCap, Ambient Light Sensor, GPIO remote control, 2× HDMI input instead of 4× DVI Customizing options: interfaces, branding, boot logo, high brightness			
Availability			planned for Q1/2017			







4K2K DISPLAYS Technical Specifications G-Line 27"

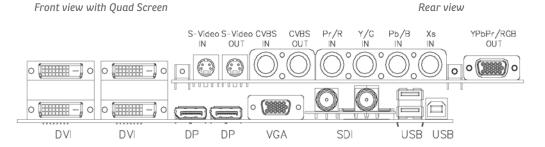
- 4K2K Display (Quad Full-HD / Ultra HD Resolution with 3840×2160 pixel)
- PoP/PiP/PbP: Multiple picture support
- True Flat design with AG protection glass and IP 65 front
- Medical Display (EN-60601-1 3rd)
- DICOM[®] compliant and color gamut adjustment
- Uniformity correction to meet ISO12646 or DIN6868-57
- LED backlight with low power consumption and backlight stabilization
- Optional with PCap Touch and high brightness



Model / Type			Canvys 27″ 4K2K Medical Display				
Size	Aspect Ratio		27″ / 68.6 cm	16	5:9		
Active Area (H × V)	Pixel Pitch		596.2 × 335.3 mm	0.155	25 mm		
Resolution			3840 × 2160 ,	/ Quad Full-HD			
Display Colors			1.0	17 B			
Response Time			GtG 12	ms typ.			
Brightness (Panel)	with AG glass	with PCap	300 cd/m ² typ	270 cd/m ² typ.	250 cd/m ² typ.		
Contrast Ratio			1000	1000:1 typ.			
Viewing Angle $(H \times V)$			178° / 178°				
I/O Ports		$4 \times$ DVI (HDMI 1.4 compliant), $2 \times$ Display Port (1.2a compliant), $1 \times$ VGA, $1 \times$ USB hub, $2 \times$ USB; additional options see drawing of the interfaces below					
Power Consumption	Power Supply		< 70 W	24 \	V DC		
Dimensions ($W \times H \times D$)			659.6 × 408.2 × 73.0 mm	26.0 × 16	.1 × 2.9 in		
Weight			9.0 kg	19.8 lbs			
Safety & Ergonomics			CE, FCC, EN-60601-1 3 rd , others on project base				
Misc.			True Flat design with AG protection glass and IP65 front, PoP/PiP/PbP support, OSD Touch keys, fanless				
Options			PCap, Ambient Light Sensor, GPIO remote control, 2× HDMI input instead of 4× DVI Customizing options: interfaces, branding, boot logo, high brightness				







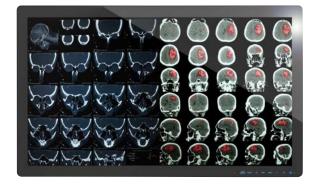
4K2K DISPLAYS Technical Specifications C-Line 31.5"

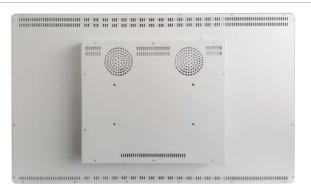


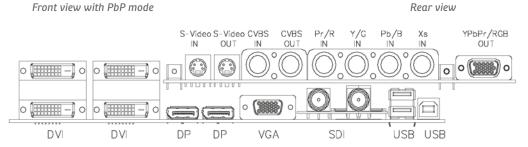
- 4K2K Display (Quad Full-HD / Ultra HD Resolution with 3840×2160 pixel)
- PoP/PiP/PbP: Multiple picture support
- True Flat design with AR protection glass and IP 65 front
- High brightness display
- Certifications on project base
- DICOM[®] compliant and color gamut adjustment
- LED backlight with low power consumption and backlight stabilization
- Optional with PCap Touch (clear or AR glass)



Model / Type		Canvys 31.5″ 4K2	Canvys 31.5" 4K2K Medical Display		
Size	Aspect Ratio	31.5″ / 80.0 cm	16:9		
Active Area $(H \times V)$	Pixel Pitch	698.4 × 392.9 mm	0.181 mm		
Resolution		3840 × 2160 /	Quad Full-HD		
Display Colors		1.0	7 B		
Response Time		GtG 9.5	ms typ.		
Brightness (Panel)		650 cd/	′m² typ.		
Contrast Ratio		1700:	1 typ.		
Viewing Angle $(H \times V)$			/ 178°		
I/O Ports		1× VGA, 1× US	4× DVI (HDMI 1.4 compliant), 2× Display Port (1.2a compliant), 1× VGA, 1× USB hub, 2× USB; additional options see drawing of the interfaces below		
Power Consumption	Power Supply	< 120 W	24 V DC		
Dimensions ($W \times H \times D$)		758.4 × 457.4 × 79.9 mm	29.9 × 18.0 × 3.1 in		
Weight		~ 10.5 kg	~ 23.2 lbs		
Safety & Ergonomics		Certification	s on request		
Misc.		5 1	True Flat design with AR protection glass and IP65 front, PoP/PiP/PbP support, OSD Touch keys, fanless, high brightness		
Options		GPIO remote control, 2× HI Customizir	t Light Sensor, DMI input instead of 4× DVI ng options: nding, boot logo		









4K2K DISPLAYS Technical Specifications G-Line 55"

Key Features

- 4K2K Display (Quad Full-HD / Ultra HD Resolution with 3840×2160 pixel)
- PoP/PiP/PbP: Multiple picture support
- True Flat design with AG protection glass and IP 65 front
- Medical Display (EN-60601-1 3rd)
- DICOM[®] compliant and color gamut adjustment
- Uniformity correction to meet ISO12646 or DIN6868-57
- LED backlight with low power consumption and backlight stabilization
- Optional with PCap Touch and high brightness

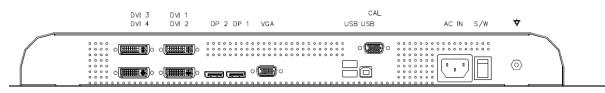


Model / Type			Canvys 55″ 4K2K Medical Display			
Size	Aspect Ratio		55″ / 139.7 cm	16:9		
Active Area (H × V)	Pixel Pitch		1209.6 × 680.4 mm	0.315	5 mm	
Resolution			3840 × 2160 /	Quad Full-HD		
Display Colors			1.0	7 B		
Response Time			GtG 6.5	ms typ.		
Brightness (Panel)	with AG glass	with PCap	450 cd/m ²	400 cd/m ²	380 cd/m ²	
Contrast Ratio			4000:	1 typ.		
Viewing Angle (H × V)			178° / 178°			
I/O Ports		4× DVI (HDMI 1.4 compliant), 2× Display Port (1.2a compliant), $1\times$ VGA, 1× USB hub, 2× USB				
Power Consumption	Power Supply		< 165 W	AC in 90	~ 264 V	
Dimensions ($W \times H \times D$) without	stand		1314.0 × 785.0 × 85.0 mm	51.7 × 30.9 × 3.3 in		
Weight			46.0 kg	101.4 lbs		
Safety & Ergonomics			CE, FCC, UL, EN-60601-1 3 rd , others on project base			
Misc.			True Flat design with AG protection glass and IP65 front, PoP/PiP/PbP support, OSD Touch keys, fanless			
Options			PCap, Ambient Light Sensor, GPIO remote control, 2× HDMI input instead of 4× DVI Customizing options: interfaces, branding, boot logo, high brightness			



Front view with PbP mode





4K2K DISPLAYS Technical Specifications B-Line 55"



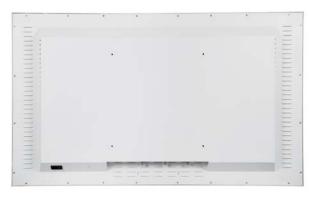
- 4K2K Display (Quad Full-HD / Ultra HD Resolution with 3840×2160 pixel)
- Medical display (UL / EN-60601-1 3rd)
- Compliant with DICOM[®] standard
- Multiple signal / picture support (8 sources, 8 different windows)
- High brightness display
- Wide viewing angle
- Free scalable windows over software tool (RJ11 to USB / serial)



Model / Type		Canvys 55" 4K2K Medical Display		
Size	Aspect Ratio	55″ / 139.7 cm 16:9		
Active Area $(H \times V)$	Pixel Pitch	1210 × 680 mm	0.315 mm	
Resolution		3840 × 2160 / Quad Full-HD ¹⁾		
Display Colors		1.0	7 B	
Response Time		10 ms	s typ.	
Brightness (Panel)		700 cd/	m² typ.	
Contrast Ratio		1450:1 typ.		
Viewing Angle (H×V)		178° / 178°		
I/O Ports		4× DVI-D, 4× Display Port, 1× VGA, 3× CVBS (BNC), RJ11 for PC connection		
Power Consumption	Power Supply	< 350 W	AC in 100 ~ 240 V	
Dimensions ($W \times H \times D$)	·	1294.0 × 767.0 × 81.5 mm	50.9 × 30.2 × 3.2 in	
Weight		40.0 kg	88.2 lbs	
Safety & Ergonomics		CE, FCC, UL/EN-60601-1 3 rd , others on project base		
Misc.		With remote control, VESA 400, IP20, high brightness		
Options		Protection glass, Touch on project base Customizing options: interfaces, branding, boot logo		
1) Max. resolution 2560 x 1600 over 1 input (Display Port or DVI) – 2 inputs needed for 4K2K.				



Front view showing application with 8 different windows



Rear view





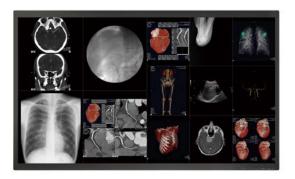
4K2K DISPLAYS Technical Specifications D-Line 58"

Key Features

- 4K2K Display (Quad Full-HD / Ultra HD Resolution with 3840×2160 pixel)
- Medical display (cTUVus / EN-60601-1 3rd)
- True Flat design
- Compliant with DICOM[®] standard
- Multiple inputs and windows



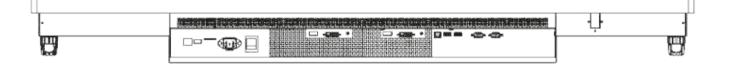
Model / Type		Canvys 58″ 4K2k	(Medical Display		
Size	Aspect Ratio	58" / 147.3 cm 16:9			
Active Area (H×V)	Pixel Pitch	1270.1 × 721.4 mm	0.334 mm		
Resolution		3840 × 2160 /	Quad Full-HD		
Display Colors		1.0	7 B		
Response Time		GtG 8.5	ms typ.		
Brightness (Panel)		700 cd/	m² typ.		
Contrast Ratio	Contrast Ratio		4000:1 typ.		
Viewing Angle $(H \times V)$	Viewing Angle (H×V)		176° / 176°		
I/O Ports		$2 \times$ DVI-D Dual, $2 \times$ Display Port, RS-232 (service), $1 \times$ USB Hub, $2 \times$ USB			
Power Consumption	Power Supply	< 320 W	AC in 90 ~ 264 V		
Dimensions ($W \times H \times D$) without st	and	1318.5 × 795.0 × 138.0 mm	51.9 × 31.3 × 5.4 in		
Weight without stand		52.0 kg	114.6 lbs		
Safety & Ergonomics		CE, FCC, CCC, cTUVus/EN-60601-1 3rd, others on project base			
Misc.		True Flat design, AR glass, VESA 400			
Options		Customizing options: interfaces, branding, boot logo, high brightness			



Front view different windows



Rear view



4K2K DISPLAYS Technical Specifications B-Line 65"



- 4K2K Display (Quad Full-HD / Ultra HD Resolution with 3840×2160 pixel)
- Compliant with DICOM[®] standard
- Backlight stabilization
- With IR Touch and trolley
- Extra large display



Model / Type		Canvys 65″ 4K2K	Medical Display		
Size	Aspect Ratio	65″ / 165.1 cm 16:9			
Active Area $(H \times V)$	Pixel Pitch	~ 1428 × 803 mm	0.372 mm		
Resolution		3840 × 2160 /	Quad Full-HD		
Display Colors		1.07	7 B		
Response Time		5 ms	typ.		
Brightness (Panel)		450 cd/r	m² typ.		
Contrast Ratio		1400:1 typ.			
Viewing Angle $(H \times V)$	Viewing Angle (H×V)		178° / 178°		
I/O Ports		1× DVI-D, 1× Display Port			
Power Consumption	Power Supply	< 200 W	AC in 100 ~ 240 V		
Dimensions ($W \times H \times D$)		1520.0 × 902.0 × 120.0 mm	59.8 × 35.5 × 4.7 in		
Weight		55.0 kg	121.3 lbs		
Safety & Ergonomics		CE, CCC, others on project base			
Misc.		With IR Touch, trolley			
Options		Customizing options: interfaces, branding, boot logo, high brightness			







4K2K DISPLAYS Technical Specifications B-Line 84"

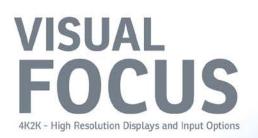
- 4K2K Display (Quad Full-HD / Ultra HD Resolution with 3840×2160 pixel)
- Compliant with DICOM[®] standard
- Backlight stabilization
- With IR Touch and trolley
- Extra large display



Model / Type		Canvys 84″ 4K2K	Medical Display		
Size	Aspect Ratio	84" / 213.4 cm 16:9			
Active Area $(H \times V)$	Pixel Pitch	1858 × 1044 mm	0.4845 mm		
Resolution		3840 × 2160 /	Quad Full-HD		
Display Colors		1.0	7 B		
Response Time		12 ms	s typ.		
Brightness (Panel)		500 cd/	m² typ.		
Contrast Ratio	Contrast Ratio		1400:1 typ.		
Viewing Angle $(H \times V)$	Viewing Angle (H×V)		178° / 178°		
I/O Ports		4× Display Port			
Power Consumption	Power Supply	< 500 W	AC in 100 ~ 240 V		
Dimensions ($W \times H \times D$)		1955.0 × 1148.0 × 120.0 mm	77.0 × 45.2 × 4.7 in		
Weight		160.0 kg	352.7 lbs		
Safety & Ergonomics		CE, CCC, others on project base			
Misc.		With IR Touch, trolley			
Options		Customizing options: interfaces, branding, boot logo, high brightness			









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