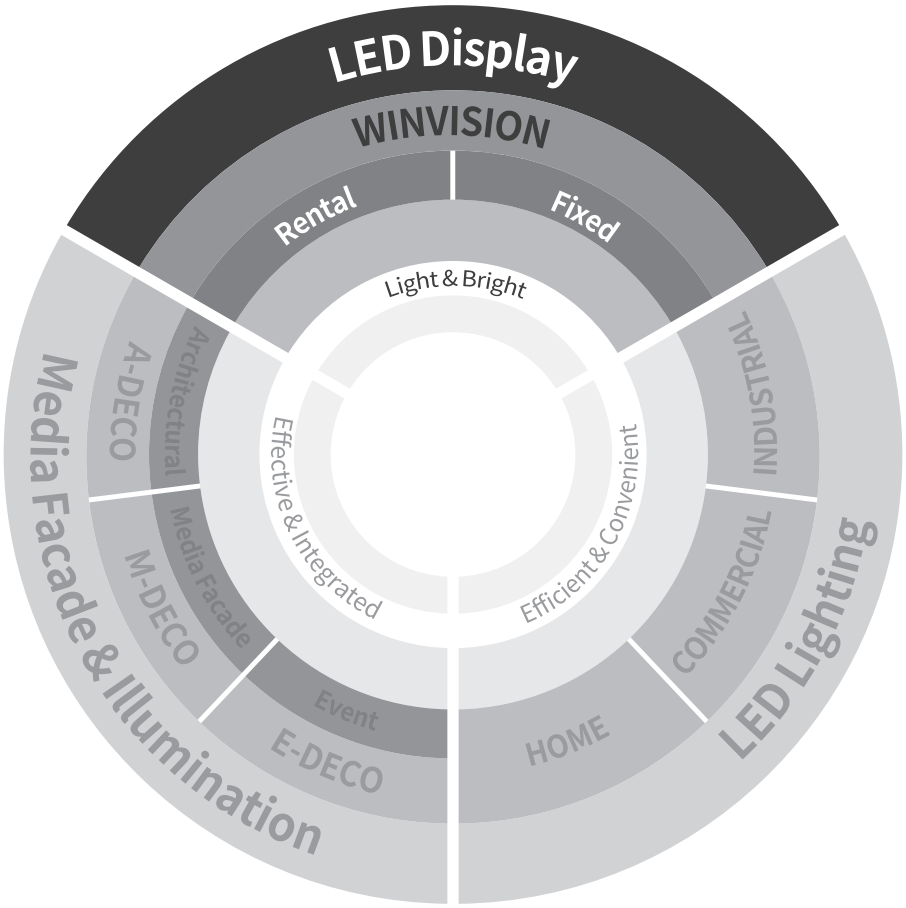
2019 Product Guide
GALAXIA ELECTRONICS

WINVISION™
LED DISPLAY


LED Display
WINVISION
Rental
Fixed
Light & Bright
Effective & Integrated
Efficient & Convenient
Media Facade & Illumination
A-DECO
Architectural
M-DECO
Media Facade
E-DECO
Event
LED Lighting
INDUSTRIAL
COMMERCIAL
HOME

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WINVISION™

LED DISPLAY

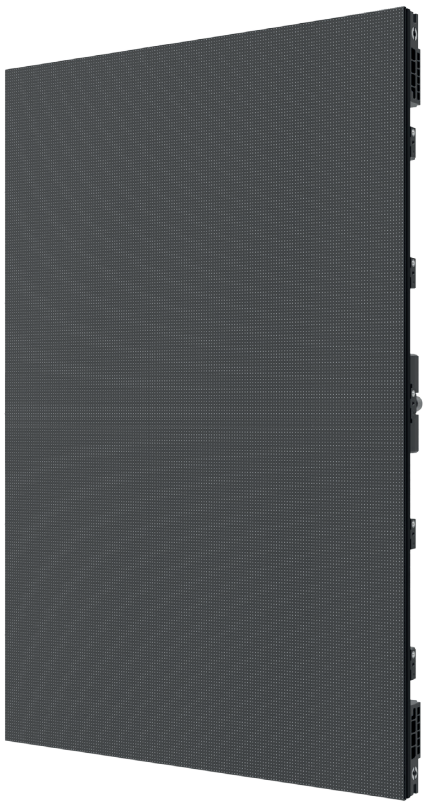
Rental | Fixed

Winvision, a well-established brand of Galaxia Electronics' premium LED displays with vivid multicolor processing capabilities, consists of a rental product line used for indoor/outdoor staging and a fixed structure product line used for outdoor LED displays.

Our state-of-the-art LED display systems are designed to be slim and light weight, durable and reliable with its own user-friendly system software. We provide high value added products through the development of new functions to meet the ever changing demands of our customers with full HD, 3D, high contrast and easy installation.

NEW WINVISION GL1

1.67mm pixel pitch **High-resolution Indoor** LED Display



Key Feature

- Optimum brightness 800nit
- Light weight carbon fiber frame
- Wide viewing angle
- Easy setup & maintenance
- Replaceable PSU
- Front & Rear access available
- 16bit color processing

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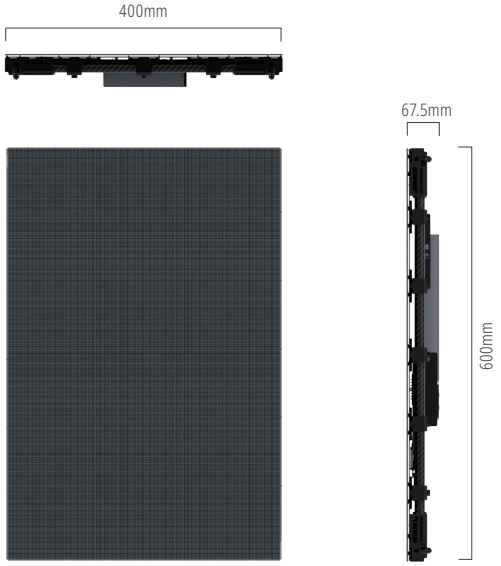
PRODUCT SPECIFICATIONS

Application		Rental, Fixed
Pixel Pitch		1.67mm
IP Rate		Indoor
Brightness		800cd/m^2
LED Type		3-in-1 SMD
Viewing Angle	degree : H	160˚
	degree : V	160˚
Size (W x H x D)	tile	Rental : 400mm x 600mm x 67.5mm | Fixed : 400mm x 600mm x 52mm
Weight	tile	Rental : 5.3 kg (11.68 lbs) | Fixed : 4.5 kg (9.92 lbs)
	sqm	Rental : 22.1 kg (48.72 lbs) | Fixed :18.75 kg (41.33 lbs)
Pixel Density	tile	86,400 (240 x 360) px
	sqm	360,000 px
Use Temperature	Operating	-10˚C ~ 40˚C (14˚F ~ 104˚F)
	Storage	-20˚C ~ 50˚C (-4˚F ~ 122˚F)
Lifetime	@ 50% Brightness	100,000 hrs
Operating Voltage		100-240 VAC, 50/60 Hz
Power Consumption	tile	Max.180 W / Avg.72 W
	sqm	Max.748 W / Avg.300 W
Max. Power Connection	tile	10(110V) / 20(220V)
Color Process		16 bit/color
Refresh Rate		1,920 Hz
Max. Hanging	tile	9
Servicing		LDM : Front / PSU : Rear
Certifications		KC



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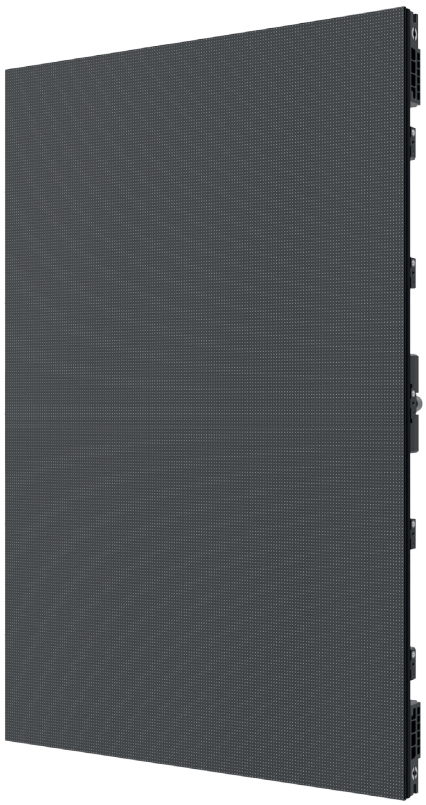
NEW WINVISION GL2

2.5mm pixel pitch **High-resolution Indoor** LED Display



Key Feature

- Optimum brightness 1,200nit
- Light weight carbon fiber frame
- Wide viewing angle
- Easy setup & maintenance
- Replaceable PSU
- Front & Rear access available
- 16bit color processing

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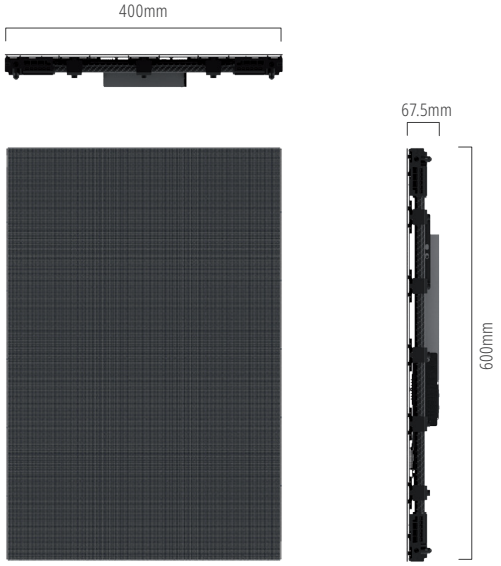
PRODUCT SPECIFICATIONS

Application		Rental, Fixed
Pixel Pitch		2.5mm
IP Rate		Indoor
Brightness		1,200 cd/m²
LED Type		3-in-1 SMD
Viewing Angle	degree : H	160˚
	degree : V	160˚
Size (W x H x D)	tile	Rental : 400mm x 600mm x 67.5mm | Fixed : 400mm x 600mm x 52mm
Weight	tile	Rental : 5.3 kg (11.68 lbs) | Fixed : 4.5 kg (9.92 lbs)
	sqm	Rental : 22.1 kg (48.72 lbs) | Fixed :18.75 kg (41.33 lbs)
Pixel Density	tile	38,400 (160 x 240) px
	sqm	160,000 px
Use Temperature	Operating	-10˚C ~ 40˚C (14˚F ~ 104˚F)
	Storage	-20˚C ~ 50˚C (-4˚F ~ 122˚F)
Lifetime	@ 50% Brightness	100,000 hrs
Operating Voltage		100-240 VAC, 50/60 Hz
Power Consumption	tile	Max.130 W / Avg.52 W
	sqm	Max.540 W / Avg.220 W
Max. Power Connection	tile	10(110V) / 20(220V)
Color Process		16 bit/color
Refresh Rate		3,840 Hz
Max. Hanging	tile	9
Servicing		LDM : Front / PSU : Rear
Certifications		KC



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WINVISION GL4

4.6875mm pixel pitch **High-resolution Indoor** LED Display

Key Feature

- Optimum brightness 1,500nit
- Light weight carbon fiber frame
- Wide viewing angle
- Easy setup & maintenance
- Replaceable PSU
- Front & Rear access available
- 16bit color processing

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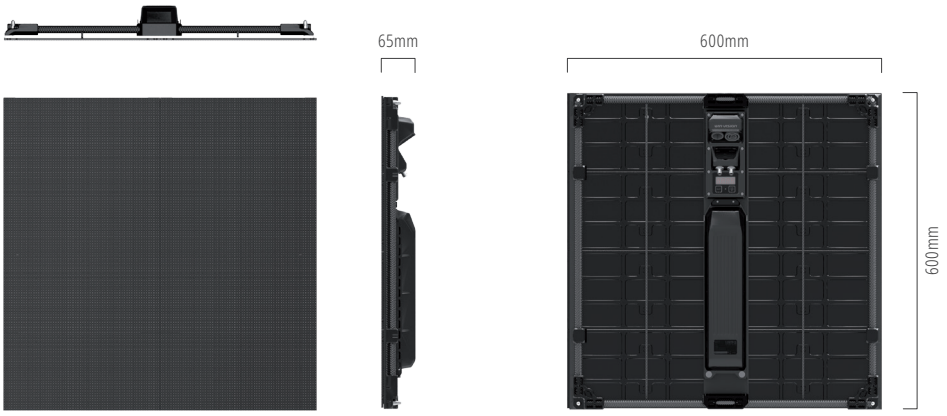
PRODUCT SPECIFICATIONS

Application		Rental, Fixed
Pixel Pitch		4.6875mm
IP Rate		Indoor
Brightness		1,500 cd/m²
LED Type		3-in-1 SMD
Viewing Angle	degree : H	160˚
	degree : V	160˚
Size (W x H x D)	tile	600mm x 600mm x 65mm
Weight	tile	6.3 kg (13.89 lbs)
	sqm	17.5 kg (35.58 lbs)
Pixel Density	tile	16,384 (128 x 128) px
	sqm	45,512 px
Use Temperature	Operating	-10˚C ~ 40˚C (14˚F ~ 104˚F)
	Storage	-30˚C ~ 70˚C (-22˚F ~ 158˚F)
Lifetime	@ 50% Brightness	100,000 hrs
Operating Voltage		100-240 VAC, 50/60 Hz
Power Consumption	tile	Max.180 W / Avg.75 W
	sqm	Max.500 W / Avg.200 W
Max. Power Connection	tile	16
Max. Data Connection	tile	8
Color Process		16 bit/color
Refresh Rate		3,840 Hz
Max. Hanging	tile	16
Servicing		LDM : Front / PSU : Rear
Certifications		CE, CB, FCC, ETL, TUV



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WINVISION GL6

6.25mm pixel pitch **High-resolution Outdoor** LED Display

Key Feature

- Optimum brightness 5,000nit
- IP 65
- Light weight carbon fiber frame
- Wide viewing angle
- Easy setup & maintenance
- Replaceable PSU
- Front & Rear access available
- 16bit color processing

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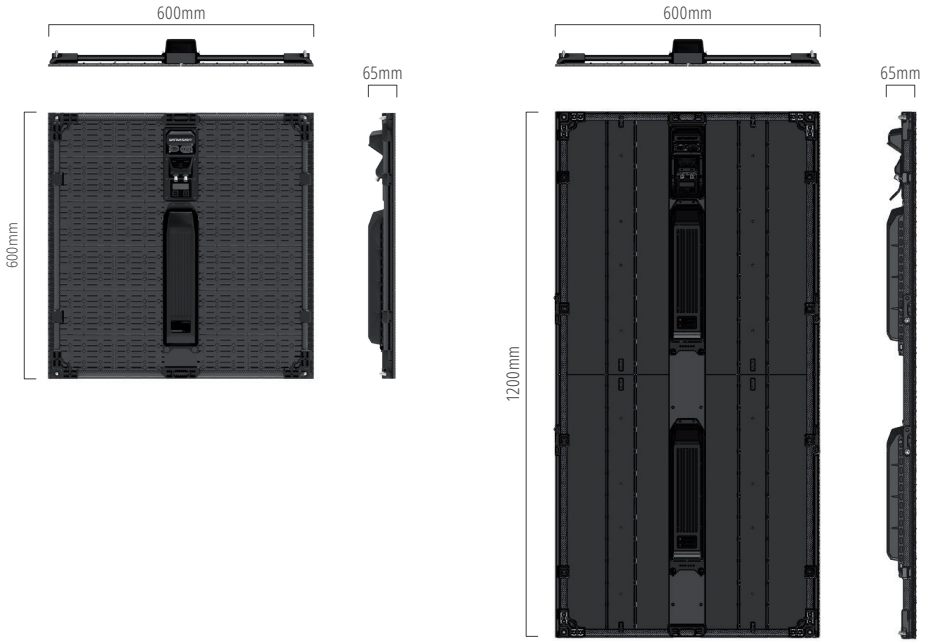
PRODUCT SPECIFICATIONS		GL 6_600 x 600	GL 6_600 x 1200
Application		Rental	Rental
Pixel Pitch		6.25mm	6.25mm
IP Rate		Front : IP 65 / Rear : IP 54	Front : IP 65 / Rear : IP 54
Brightness		5,000 cd/m^2	5,000 cd/m^2
LED Type		3-in-1 SMD	3-in-1 SMD
Viewing Angle	degree : H	160˚	160˚
	degree : V	160˚	160˚
Size (W x H x D)	tile	600mm x 600mm x 65mm	600mm x 1,200mm x 65mm
Weight	tile	6.3 kg (13.89 lbs)	11.5 kg (25.35 lbs)
	sqm	17.5 kg (38.58 lbs)	15.9 kg (36.06 lbs)
Pixel Density	tile	9,216 (96 x 96) px	18,432 (96 x 192) px
	sqm	25,600 px	25,600 px
Use Temperature	Operating	-20˚C ~ 40˚C (-4˚F ~ 104˚F)	-20˚C ~ 40˚C (-4˚F ~ 104˚F)
	Storage	-30˚C ~ 70˚C (-22˚F ~ 158˚F)	-30˚C ~ 70˚C (-22˚F ~ 158˚F)
Lifetime	@ 50% Brightness	100,000 hrs	100,000 hrs
Operating Voltage		100-240 VAC, 50/60 Hz	100-240 VAC, 50/60 Hz
Power Consumption	tile	Max.170 W / Avg.68 W	Max.340 W / Avg.136 W
	sqm	Max.472 W / Avg.190 W	Max.472 W / Avg.190 W
Max. Power Connection	tile	16	8
Max. Data Connection	tile	32	16
Color Process		16 bit/color	16 bit/color
Refresh Rate		3,840 Hz	3,840 Hz
Max. Hanging	tile	16	8
Servicing		LDM : Front / PSU : Rear	LDM : Front / PSU : Rear
Certifications		CE, CB, FCC, ETL, TUV	CE, CB, FCC, ETL, TUV



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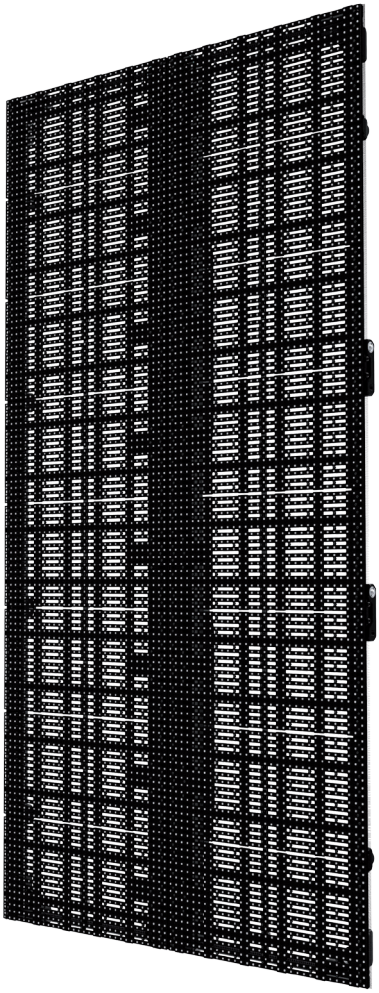
WINVISION GL9

9.37mm pixel pitch, Transparency 20%, **High-resolution Outdoor** LED Display



Key Feature

- Optimum brightness 5,000nit
- IP 65
- Light weight carbon fiber frame
- Wide viewing angle
- Easy setup & maintenance
- Replaceable PSU
- Front & Rear access available
- 16bit color processing

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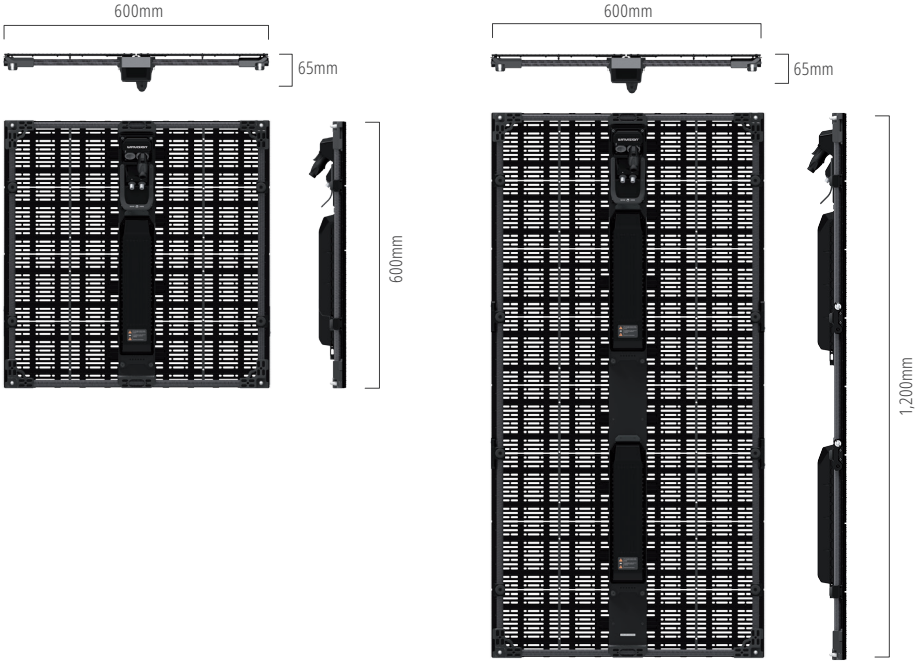
PRODUCT SPECIFICATIONS		GL 9_600 x 600	GL 9_600 x 1,200
Application		Rental	Rental
Pixel Pitch		9.375mm	9.375mm
IP Rate		Front : IP 65 / Rear : IP 54	Front : IP 65 / Rear : IP 54
Brightness		4,500 ~ 5,000 cd/m^2	4,500 ~ 5,000 cd/m^2
LED Type		3-in-1 SMD	3-in-1 SMD
Viewing Angle	degree : H	160˚	160˚
	degree : V	160˚	160˚
Transparency		20%	20%
Size (W x H x D)	tile	600mm x 600mm x 65mm	600mm x 1,200mm x 65mm
Weight	tile	5 kg (11.02 lbs)	9.2 kg (20.28 lbs)
	tile (with Back Cover)	5.3 kg (11.68 lbs)	9.9 kg (21.82 lbs)
	sqm	13.8 kg (30.42 lbs)	12.8 kg (28.21 lbs)
	sqm (with Back Cover)	14.7 kg (32.40 lbs)	13.8 kg (30.42 lbs)
Pixel Density	tile	4,096 (64 x 64) px	8,192 (64 x 128) px
	sqm	11,378px	11,378px
Use Temperature	Operating	-20˚C ~ 40˚C (-4˚F ~ 104˚F)	-20˚C ~ 40˚C (-4˚F ~ 104˚F)
	Storage	-30˚C ~ 50˚C (-22˚F ~ 122˚F)	-30˚C ~ 50˚C (-22˚F ~ 122˚F)
Lifetime	@ 50% Brightness	100,000 hrs	100,000 hrs
Operating Voltage		100-240 VAC , 50/60 Hz	100-240 VAC , 50/60 Hz
Power Consumption	tile	Max.170 W / Avg.70 W	Max.340 W / Avg.140 W
	sqm	Max.470 W / Avg.190 W	Max.470 W / Avg.190 W
Max. Power Connection	tile	16	8
Max. Data Connection	tile	32	32
Color Process		16 bit/color	16 bit/color
Refresh Rate		3,840 Hz	3,840 Hz
Max. Hanging	tile	16	8
Servicing		LDM : Front / PSU : Rear	LDM : Front / PSU : Rear
Certifications		CE, CB, FCC, ETL, TUV	CE, CB, FCC, ETL, TUV



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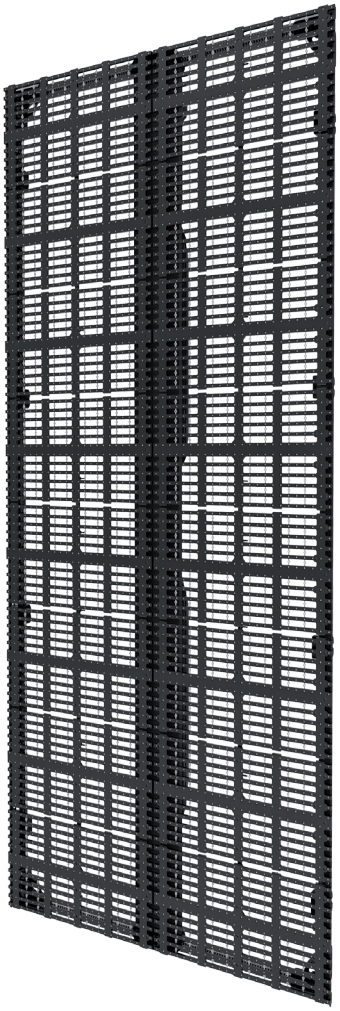
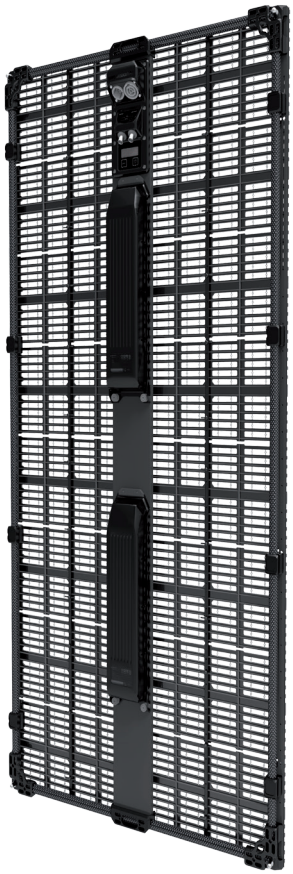
WINVISION GL12

12.5mm pixel pitch, Transparency 27%, **High-resolution Outdoor** LED Display





Key Feature

- Optimum brightness 5,000nit
- IP 65
- Light weight carbon fiber frame
- Wide viewing angle
- Easy setup & maintenance
- Replaceable PSU
- Front & Rear access available
- 16bit color processing

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PRODUCT SPECIFICATIONS		GL 12_600 x 600	GL 12_600 x 1,200
Application		Rental	Rental
Pixel Pitch		12.5mm	12.5mm
IP Rate		Front : IP 65 / Rear : IP 54	Front : IP 65 / Rear : IP 54
Brightness		5,000 cd/m²	5,000 cd/m²
LED Type		3-in-1 SMD	3-in-1 SMD
Viewing Angle	degree : H	160˚	160˚
	degree : V	160˚	160˚
Transparency		27%	27%
Size (W x H x D)	tile	600mm x 600mm x 65mm	600mm x 1,200mm x 65mm
Weight	tile	4.8 kg (10.58 lbs)	8.1 kg (17.85 lbs)
	tile (with Back Cover)	5.1 kg (11.24 lbs)	8.7 kg (19.18 lbs)
	sqm	13.3 kg (29.32 lbs)	11.3 kg (24.91 lbs)
	sqm (with Back Cover)	14.2 kg (31.30 lbs)	12.1 kg (26.67 lbs)
Pixel Density	tile	2,304 (48 x 48) px	4,608 (48 x 96) px
	sqm	6,400 px	6,400 px
Use Temperature	Operating	-20˚C ~ 40˚C (-4˚F ~ 104˚F)	-20˚C ~ 40˚C (-4˚F ~ 104˚F)
	Storage	-30˚C ~ 50˚C (-22˚F ~ 122˚F)	-30˚C ~ 50˚C (-22˚F ~ 122˚F)
Lifetime	@ 50% Brightness	100,000 hrs	100,000 hrs
Operating Voltage		100-240 VAC , 50/60 Hz	100-240 VAC , 50/60 Hz
Power Consumption	tile	Max.170W / Avg.70W	Max.340W / Avg.140W
	sqm	Max.470W / Avg.190W	Max.470W / Avg.190W
Max. Power Connection	tile	16	8
Max. Data Connection	tile	32	20
Color Process		16 bit/color	16 bit/color
Refresh Rate		7,680Hz	7,680Hz
Max. Hanging	tile	16	8
Servicing		LDM : Front / PSU : Rear	LDM : Front / PSU : Rear
Certifications		CE, CB, FCC, ETL, TUV	CE, CB, FCC, ETL, TUV

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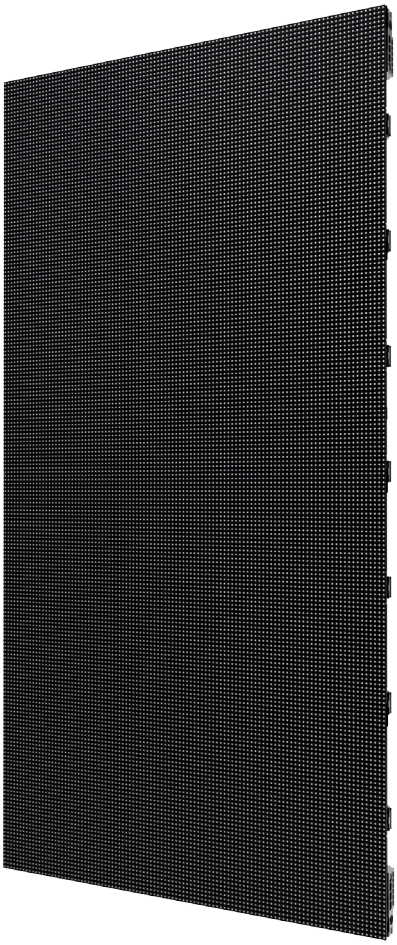
NEW WINVISION G4

4.81mm pixel pitch **High-resolution Indoor** LED Display



Key Feature

- Optimum brightness 1,200nit
- Light weight carbon fiber frame
- Wide viewing angle
- Easy setup & maintenance
- Replaceable PSU
- Front & Rear access available
- 16bit color processing

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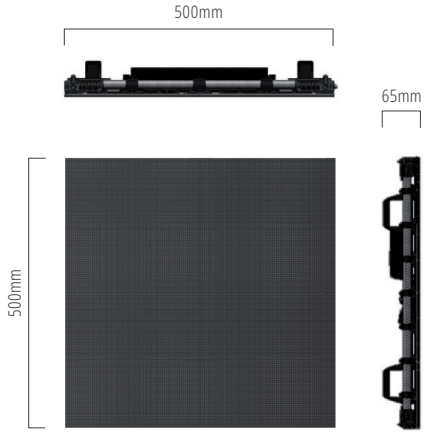
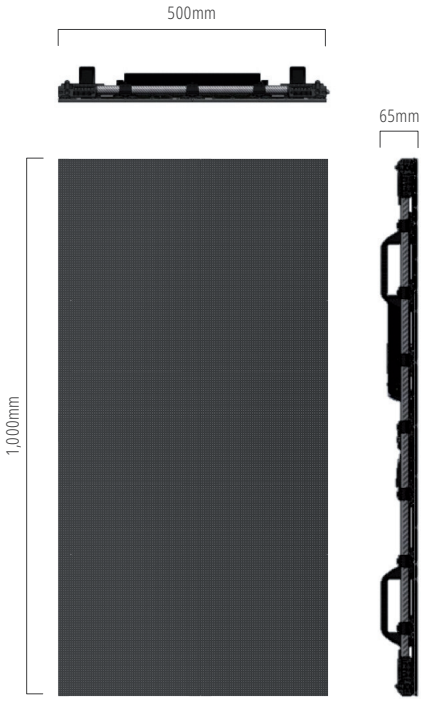
PRODUCT SPECIFICATIONS		G4_500 x 500	G4_500 x 1000
Application		Rental, Fixed	Rental, Fixed
Pixel Pitch		4.81mm	4.81mm
IP Rate		Indoor	Indoor
Brightness		1,200 cd/m^2	1,200 cd/m^2
LED Type		3-in-1 SMD	3-in-1 SMD
Viewing Angle	degree : H	160˚	160˚
	degree : V	160˚	160˚
Size (W x H x D)	tile	500mm x 500mm x 65mm	500mm x 1,000mm x 65mm
Weight	tile	5.2 kg (11.51 lbs)	8.8 kg (19.41 lbs)
	sqm	20.9 kg (46.04 lbs)	17.6 kg (38.81 lbs)
Pixel Density	tile	10,816 (104 x 104) px	21,632 (104 x 208) px
	sqm	43,264 px	43,264 px
Use Temperature	Operating	-10˚C ~ 40˚C (14˚F ~ 104˚F)	-10˚C ~ 40˚C (14˚F ~ 104˚F)
	Storage	-20˚C ~ 50˚C (-4˚F ~ 122˚F)	-20˚C ~ 50˚C (-4˚F ~ 122˚F)
Lifetime	@ 50% Brightness	100,000 hrs	100,000 hrs
Operating Voltage		100-240 VAC, 50/60 Hz	100-240 VAC, 50/60 Hz
Power Consumption	tile	Max. 130W / Avg. 50W	Max. 250W / Avg. 100W
	sqm	Max. 520W / Avg. 200W	Max. 500W / Avg. 200W
Max. Power Connection	tile	14(110V) / 28(220V)	7(110V) / 14(220V)
Max. Data Connection	tile	13	13
Color Process		16 bit/color	16 bit/color
Refresh Rate		3,840 Hz	3,840 Hz
Max. Hanging	tile	16	8
Servicing		LDM : Front / PSU : Rear	LDM : Front / PSU : Rear





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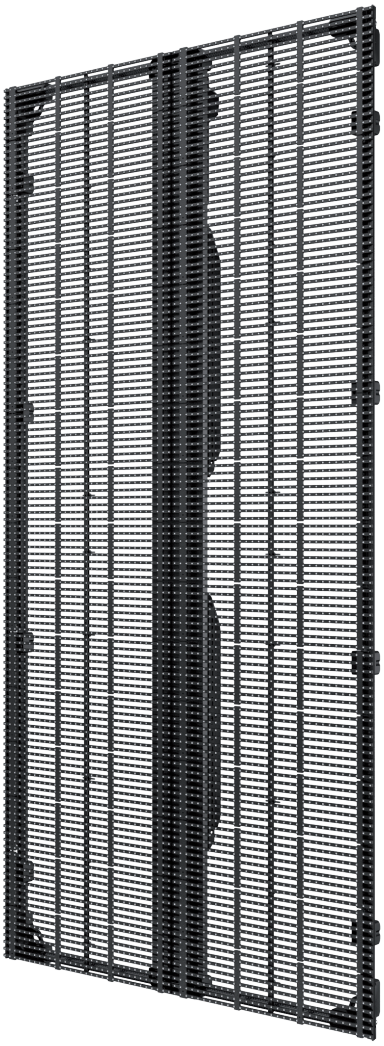
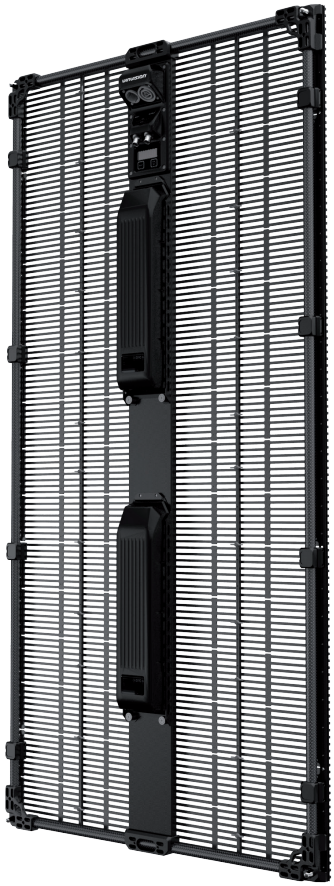
WINVISION LV9

9.37mm pixel pitch, Transparency 28%, **High-resolution Outdoor** LED Display





Key Feature

- Optimum brightness 5,000nit
- IP 65
- Light weight carbon fiber frame
- Wide viewing angle
- Easy setup & maintenance
- Replaceable PSU
- Front & Rear access available
- 16bit color processing

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PRODUCT SPECIFICATIONS		LV 9_600 x 600	LV 9_600 x 1,200
Application		Rental	Rental
Pixel Pitch		9.375mm	9.375mm
IP Rate		Front : IP 65 / Rear : IP 54	Front : IP 65 / Rear : IP 54
Brightness		4,000~5,000 cd/m^2	4,000~5,000 cd/m^2
LED Type		3-in-1 SMD	3-in-1 SMD
Viewing Angle	degree : H	160˚	160˚
	degree : V	160˚	160˚
Transparency		28%	28%
Size (W x H x D)	tile	600mm x 600mm x 65mm	600mm x 1,200mm x 65mm
Weight	tile	4.3 kg (9.47 lbs)	7.8 kg (17.19 lbs)
	tile (with Back Cover)	4.6 kg (10.14 lbs)	8.5 kg (18.73 lbs)
	sqm	12 kg (26.45 lbs)	10.8 kg (23.80 lbs)
	sqm (with Back Cover)	12.9 kg (28.43 lbs)	11.8 kg (26.01 lbs)
Pixel Density	tile	4,096 (64 x 64) px	4,608 (48 x 96) px
	sqm	11,378px	11,378px
Use Temperature	Operating	-20˚C ~ 40˚C (-4˚F ~ 104˚F)	-20˚C ~ 40˚C (-4˚F ~ 104˚F)
	Storage	-30˚C ~ 50˚C (-22˚F ~ 122˚F)	-30˚C ~ 50˚C (-22˚F ~ 122˚F)
Lifetime	@ 50% Brightness	100,000 hrs	100,000 hrs
Operating Voltage		100-240 VAC , 50/60 Hz	100-240 VAC , 50/60 Hz
Power Consumption	tile	Max.170 W / Avg.70 W	Max.340 W / Avg.140 W
	sqm	Max.470 W / Avg.190 W	Max.470 W / Avg.190 W
Max. Power Connection	tile	16	8
Max. Data Connection	tile	32	32
Color Process		16 bit/color	16 bit/color
Refresh Rate		3,840 Hz	3,840 Hz
Max. Hanging	tile	16	8
Servicing		LDM : Front / PSU : Rear	LDM : Front / PSU : Rear
Certifications		CE, CB, FCC, ETL, TUV	CE, CB, FCC, ETL, TUV

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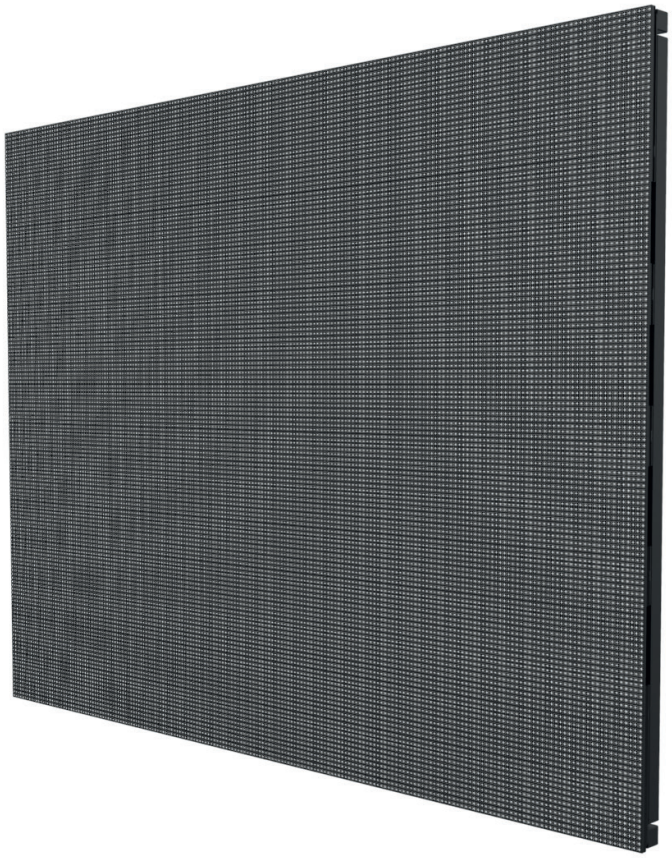
WINVISION CX2

2.89mm pixel pitch **High-resolution Indoor** LED Display (Fixed)



Key Feature

- Optimum brightness 1,200nit
- Wide viewing angle
- Easy setup & maintenance
- Front & Rear access available
- Light weight

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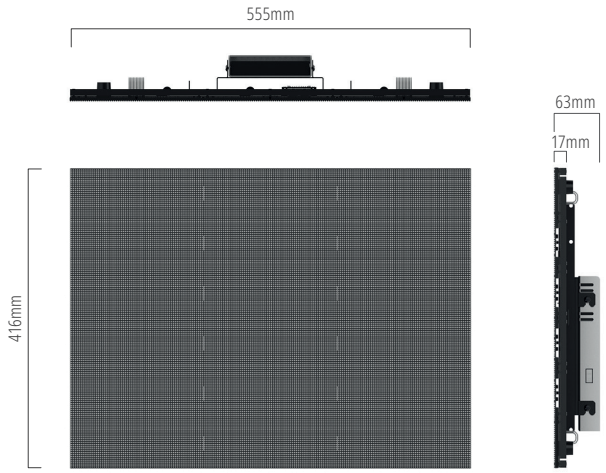
PRODUCT SPECIFICATIONS

Application		Fixed
Pixel Pitch		2.89mm
IP Rate		Indoor
Brightness		1,200 cd/m²
LED Type		3-in-1 SMD
Viewing Angle		160 º
LED Module Size (W x H)		185mm x 69mm
Tile Size (W x H x D)		555mm x 416mm x 63mm
Weight	ile	4.2 kg (9.03 lbs)
	sqm	18.1 kg (39.90 lbs)
Pixel Density	tile	27,648 (192 x 144) px
	sqm	119,750 px
Contrast ratio		3,000 : 1
Use Temperature	Operating	-10˚C ~ 40˚C (14˚F ~ 104˚F)
	Storage	-20˚C ~ 50˚C (-4˚F ~ 122˚F)
Lifetime	@ 50% Brightness	100,000hrs
Operating Voltage		100 - 240 VAC, 50/60 Hz
Power Consumption	tile	Max.115 W / Avg.70 W
	sqm	Max.500 W / Avg.240 W
Max. Power Connection	tile	20 (220V) / 10 (110V)
Max. Data Connection		650,000pixel / 1Port
Refresh Rate		Min. 2,000 Hz
Frame material		Aluminum
Servicing		Front, Rear
Certifications		KC



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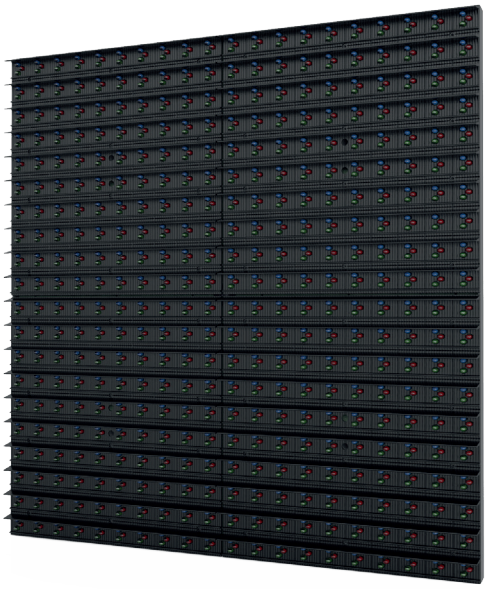
WINVISION LX20

20mm pixel pitch **High-resolution Outdoor** LED Display (Fixed)



Key Feature

- Optimum brightness 8,500nit
- Easy setup & maintenance (8point latch type structure)
- Front & Rear access available
- IP 67
- Low standby power (270 W/m^2)
- Power redundancy (optional)

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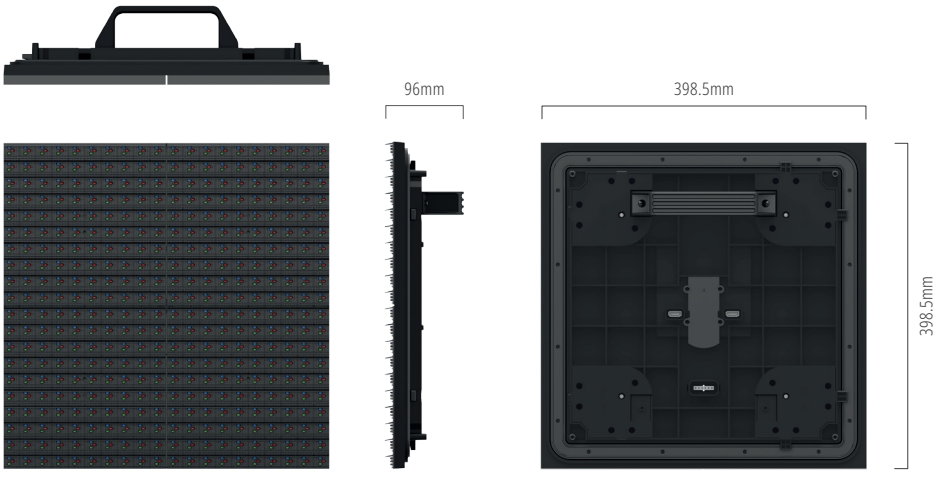
PRODUCT SPECIFICATIONS

Application		Fixed
Pixel Pitch		20 mm
IP Rate		Front : IP 67 / Rear : IP 67
Brightness		Max. 8,500 cd/m^2
LED Type		Oval LED (R1, G1, B1)
Viewing Angle	degree : H	95˚
	degree : V	45˚
Size (W x H x D)	LDM	398.5mm x 398.5mm x 96mm
Weight	LDM	4.5 kg (9.92 lbs)
	sqm	28 kg (61.72 lbs)
Pixel Density	LDM	400 (20 x 20) px
	sqm	2,500 px
Use Temperature	Operating	-30˚C ~ 50˚C (-22˚F ~ 122˚F)
	Storage	-40˚C ~ 80˚C (-40˚F ~ 176˚F)
Lifetime	@ 50% Brightness	100,000 hrs
Operating Voltage		100-240 VAC, 50/60 Hz
Power Consumption	LDM	Max.43 W / Avg.18 W
	sqm	Max.270 W / Avg.110 W
Color Process		16 bit/color
Refresh Rate		Min.6,000 Hz
Servicing (LDM)		Front, Rear
Certifications		FCC, UL



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MCU Main Control Unit

MCU 2002

Digital DVI Input : 1
Digital DVI Output : 1 (Monitor)
LED Screen BNC Output : 2

MCU 2012 HD

Digital DVI Input : 1
Digital DVI Output : 2 (Monitor)
LED Screen BNC Output : 12

MCU 2018 HD

Digital DVI Input : 1
Digital DVI Output : 2 (Monitor)
SDI Signal Input : 2
SDI Signal Output : 2
LED Screen BNC Output : 12

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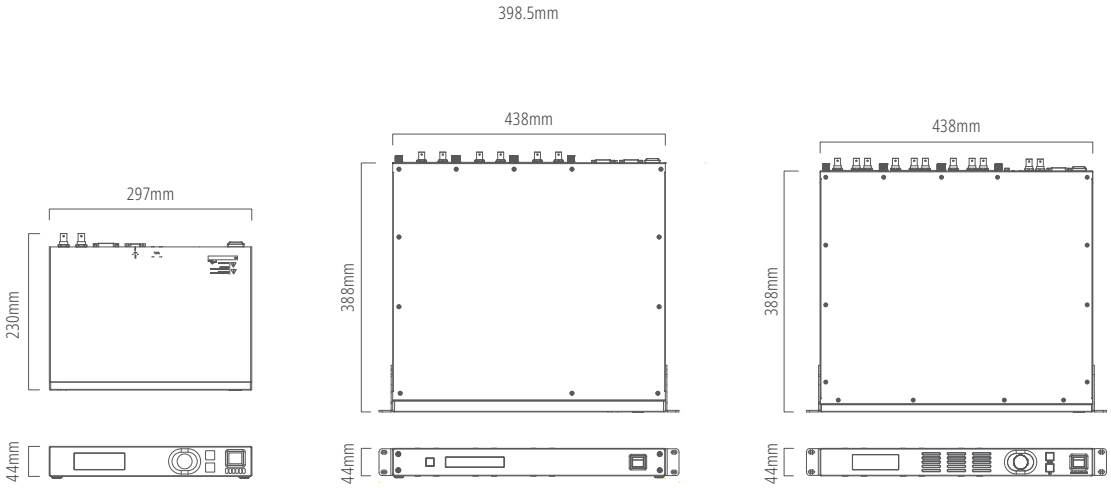
PRODUCT SPECIFICATIONS	MCU 2002	MCU 2012 HD	MCU 2018 HD
Model Name	LC-2002	LC-2012HD	LC-2018HD
Size (W x H x D)	297mm x 230mm x 44mm	438mm x 388mm x 44mm	438mm x 388mm x 44mm
Weight	3 kg (6.61 lbs)	6.8 kg (14.99 lbs)	7.2 kg (15.87 lbs)
Input Voltage	100 ~ 240 VAC / 50 ~ 60 Hz		
Power Consumption	35 W	100 W	100 W
Video Input	DVI Digital x 1CH		DVI Digital x 1CH
	-		3G-SDI/HD-SDI x 2CH
	Max. 1920 x 1080p (50/59.94/60Hz)		
Video Output	DVI Digital x 1 (Loop-through)	DVI Digital x 2 (Loop-through)	DVI Digital x 1 (Loop-through) HD-SDI x 2 (Loop-through)
Video Output for LED Screen	BNC x 2 CH	BNC x 12 CH	BNC x 12 CH
HDCP	Compliant	Not Compliant	Compliant
3D Sync Signal Output	Compliant	Not Compliant	Compliant
No. of Pixels / CH (Winvision)	131,072 ~ 300,000 px		
No. of Pixels / CH (DDU used)	-	2 CH Board used : 7,200 px (120pixels x 20uni x 3DDU) 2&1 CH Board used : 2,400 px (120pixels x 20uni x 1DDU)	
No. of Pixels / CH (PDD used)	16,384 px	2&1 CH Board used : 8,192 px	
Host control Interface	Ethernet & RS232		
Operating Temperature	0˚C ~ 50˚C (32˚F ~ 122˚F)	0˚C ~ 45˚C (32˚F ~ 113˚F)	0˚C ~ 50˚C (32˚F ~ 122˚F)
Storage Temperature	-20˚C ~ 70˚C (-4˚F ~ 158˚F)		
Certification	CB, CE, ETL, FCC, TUV	CE, ETL, FCC, TUV	CB, CE, ETL, FCC, TUV



LC-2002 LC-2012HD LC-2018HD

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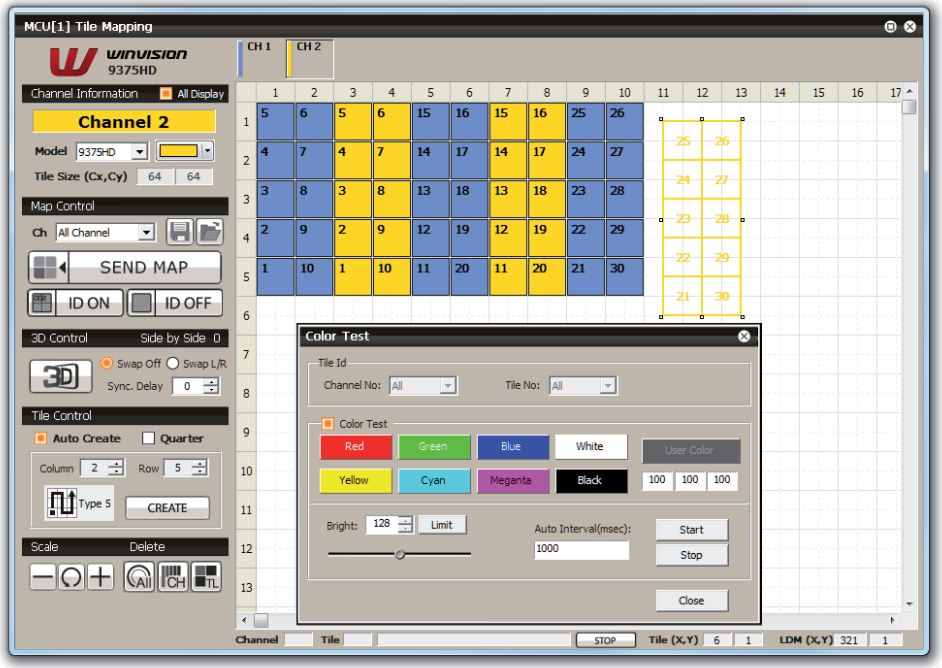
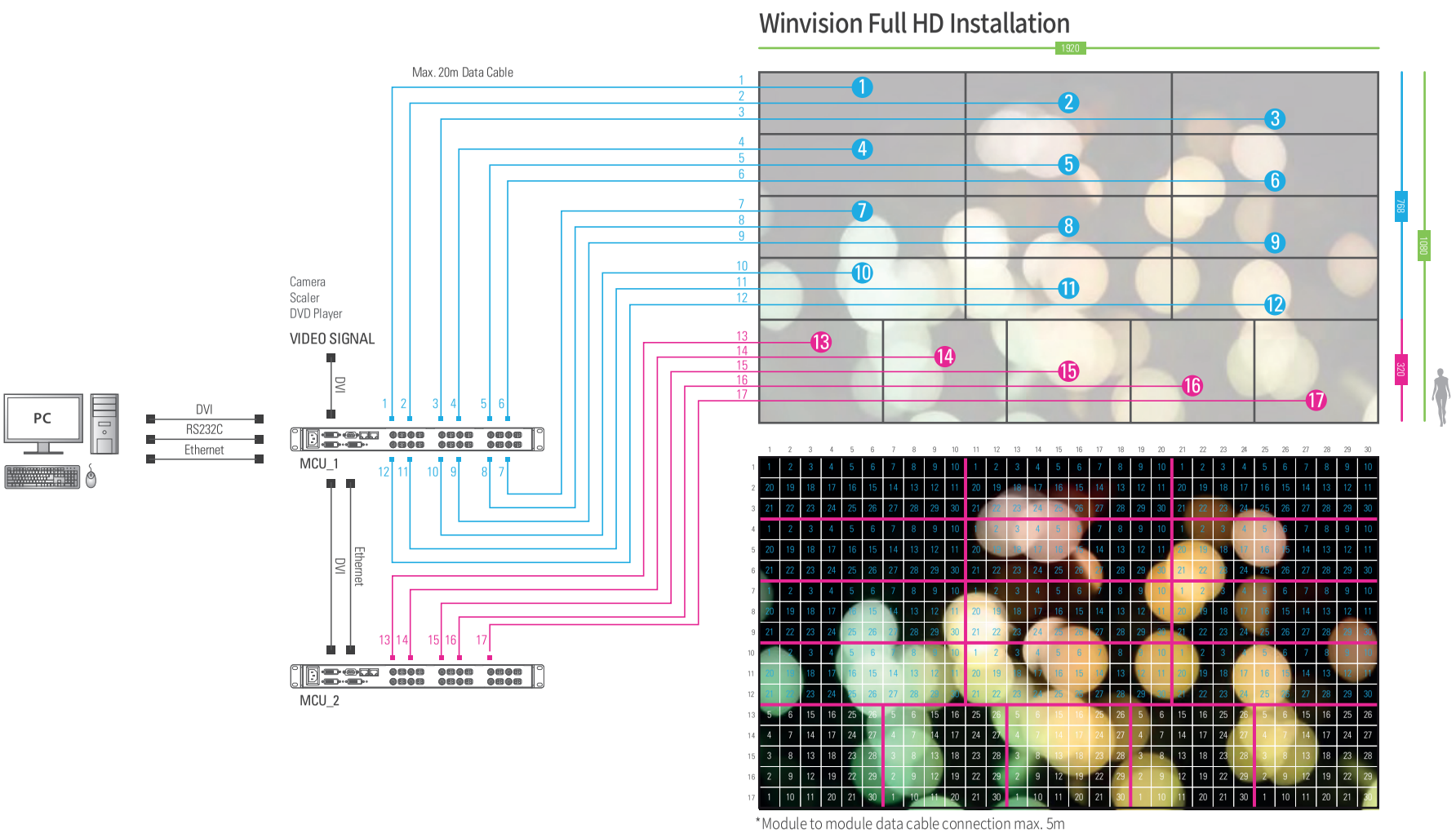
GUI (Software) & System Diagram

GUI (Software)



Winvision System Diagram



Winvision Full HD Installation

*Module to module data cable connection max. 5m

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