BEXRO
ESSENTIAL



WL Series

Indoor wall-mount LED displays

P1.86 · P2.5 · P4 | SMD

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WL SERIES

Features & Applications

Key features, applications and installation environment

Product features

Durable

100,000-hour lifespan

Easy to repair

Standard modules, replaced one at a time

Vivid colours

2000–9300K colour temperature, single-dot calibration

High brightness 600 nits

Optional 800 nits

4,200 Hz refresh rate

Optional 7,680 Hz, flicker-free on camera

Wide viewing angle

160° / 140°, 5,000:1 contrast

Recommended applications by size

Model	Screen (m)	Audience	Min. ceiling (m)	Recommended use
WL116	2.56 × 1.44	6–12	2.4	Smart classroom, huddle room, reception wall
WL130	2.88 × 1.60	10–16	2.6	Training room, smart classroom, experience center
WL144	3.20 × 1.76	15–25	2.7	Training room, seminar room, corporate showroom
WL158	3.52 × 1.92	20–30	2.9	Lecture room, active-learning classroom, museum
WL169	3.84 × 1.92	25–40	3.0	University lecture room, corporate training hall, gallery
WL172	3.84 × 2.08	25–40	3.1	Experience center, museum, exhibition
WL186	4.16 × 2.24	40–60	3.3	Lecture theatre, corporate town hall, museum hall
WL203	4.48 × 2.56	60–100	3.5	Auditorium, large lecture theatre, exhibition hall
WL217	4.80 × 2.72	100–150	3.6	University auditorium, museum main hall
WL231	5.12 × 2.88	150+	3.8	Main auditorium, exhibition centrepiece, museum hall

Installation environment

- **Indoor installation:** Wall-mount
- **Operating temp.:** -20 to +45 °C, 10–50% RH
- **Storage temp.:** -20 to +50 °C, 10–60% RH
- **320 × 160 mm module:** Builds 10 sizes, 116 to 231 inches

Viewing distance and control

- **Distance:** P1.86 ≥1.9 m · P2.5 ≥2.5 m · P4 ≥4 m
- **Control:** Video Processor (Multi Input), LED Multimedia Player or All-in-One Controller
- **Typical power:** 90–163 W/m² (max. 300–488 W/m²)
- **Inputs:** HDMI input / USB media playback

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WL116

116-inch wall-mount SMD LED display for indoor use



Durable | **Easy to repair** | **Vivid colours** | **High brightness 600 nits**

Model	WL116-1.86 SMD	WL116-2.5 SMD	WL116-4 SMD
Details	P1.86 SMD 116” Indoor LED	P2.5 SMD 116” Indoor LED	P4 SMD 116” Indoor LED
Module / Pixel pitch	SMD1515 / 1.86 mm	SMD2121 / 2.5 mm	SMD2121 / 4 mm
Module size / Resolution	320 × 160 mm / 172 × 86 px	320 × 160 mm / 128 × 64 px	320 × 160 mm / 80 × 40 px
Modules / Screen size	72 (8 × 9) / 2.56 × 1.44 m	72 (8 × 9) / 2.56 × 1.44 m	72 (8 × 9) / 2.56 × 1.44 m
Resolution / Aspect ratio	1,376 × 774 px / 16:9	1,024 × 576 px / 16:9	640 × 360 px / 16:9
Pixel density / Screen area	288,906 px/m² / 3.69 m²	160,000 px/m² / 3.69 m²	62,500 px/m² / 3.69 m²
Viewing angle (H / V)	160° / 140°	160° / 140°	160° / 140°
Contrast ratio	5,000:1	5,000:1	5,000:1
Brightness	600 nits (Optional 800 nits)	600 nits (Optional 800 nits)	600 nits (Optional 800 nits)
Refresh rate	4,200 Hz (Optional 7,680 Hz)	4,200 Hz (Optional 7,680 Hz)	4,200 Hz (Optional 7,680 Hz)
Total pixels	1,065,024 px	589,824 px	230,400 px
Controller display outputs	2 Ports	1 Port	1 Port
Controller input / Media	Video Processor with Multi Input, LED Multimedia Player or All-in-One Controller		
Power (typ. / max.)	90 / 300 W/m²	163 / 488 W/m²	163 / 488 W/m²

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WL130

130-inch wall-mount SMD LED display for indoor use



Durable · **Easy to repair** · **Vivid colours** · **High brightness 600 nits**

Model	WL130-1.86 SMD	WL130-2.5 SMD	WL130-4 SMD
Details	P1.86 SMD 130" Indoor LED	P2.5 SMD 130" Indoor LED	P4 SMD 130" Indoor LED
Module / Pixel pitch	SMD1515 / 1.86 mm	SMD2121 / 2.5 mm	SMD2121 / 4 mm
Module size / Resolution	320 × 160 mm / 172 × 86 px	320 × 160 mm / 128 × 64 px	320 × 160 mm / 80 × 40 px
Modules / Screen size	90 (9 × 10) / 2.88 × 1.60 m	90 (9 × 10) / 2.88 × 1.60 m	90 (9 × 10) / 2.88 × 1.60 m
Resolution / Aspect ratio	1,548 × 860 px / 9:5	1,152 × 640 px / 9:5	720 × 400 px / 9:5
Pixel density / Screen area	288,906 px/m² / 4.61 m²	160,000 px/m² / 4.61 m²	62,500 px/m² / 4.61 m²
Viewing angle (H / V)	160° / 140°	160° / 140°	160° / 140°
Contrast ratio	5,000:1	5,000:1	5,000:1
Brightness	600 nits (Optional 800 nits)	600 nits (Optional 800 nits)	600 nits (Optional 800 nits)
Refresh rate	4,200 Hz (Optional 7,680 Hz)	4,200 Hz (Optional 7,680 Hz)	4,200 Hz (Optional 7,680 Hz)
Total pixels	1,331,280 px	737,280 px	288,000 px
Controller display outputs	3 Ports	2 Ports	1 Port
Controller input / Media	Video Processor with Multi Input, LED Multimedia Player or All-in-One Controller		
Power (typ. / max.)	90 / 300 W/m²	163 / 488 W/m²	163 / 488 W/m²

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WL144

144-inch wall-mount SMD LED display for indoor use



Durable | **Easy to repair** | **Vivid colours** | **High brightness 600 nits**

Model	WL144-1.86 SMD	WL144-2.5 SMD	WL144-4 SMD
Details	P1.86 SMD 144" Indoor LED	P2.5 SMD 144" Indoor LED	P4 SMD 144" Indoor LED
Module / Pixel pitch	SMD1515 / 1.86 mm	SMD2121 / 2.5 mm	SMD2121 / 4 mm
Module size / Resolution	320 × 160 mm / 172 × 86 px	320 × 160 mm / 128 × 64 px	320 × 160 mm / 80 × 40 px
Modules / Screen size	110 (10 × 11) / 3.20 × 1.76 m	110 (10 × 11) / 3.20 × 1.76 m	110 (10 × 11) / 3.20 × 1.76 m
Resolution / Aspect ratio	1,720 × 946 px / 1.82:1	1,280 × 704 px / 1.82:1	800 × 440 px / 1.82:1
Pixel density / Screen area	288,906 px/m² / 5.63 m²	160,000 px/m² / 5.63 m²	62,500 px/m² / 5.63 m²
Viewing angle (H / V)	160° / 140°	160° / 140°	160° / 140°
Contrast ratio	5,000:1	5,000:1	5,000:1
Brightness	600 nits (Optional 800 nits)	600 nits (Optional 800 nits)	600 nits (Optional 800 nits)
Refresh rate	4,200 Hz (Optional 7,680 Hz)	4,200 Hz (Optional 7,680 Hz)	4,200 Hz (Optional 7,680 Hz)
Total pixels	1,627,120 px	901,120 px	352,000 px
Controller display outputs	3 Ports	2 Ports	1 Port
Controller input / Media	Video Processor with Multi Input, LED Multimedia Player or All-in-One Controller		
Power (typ. / max.)	90 / 300 W/m²	163 / 488 W/m²	163 / 488 W/m²

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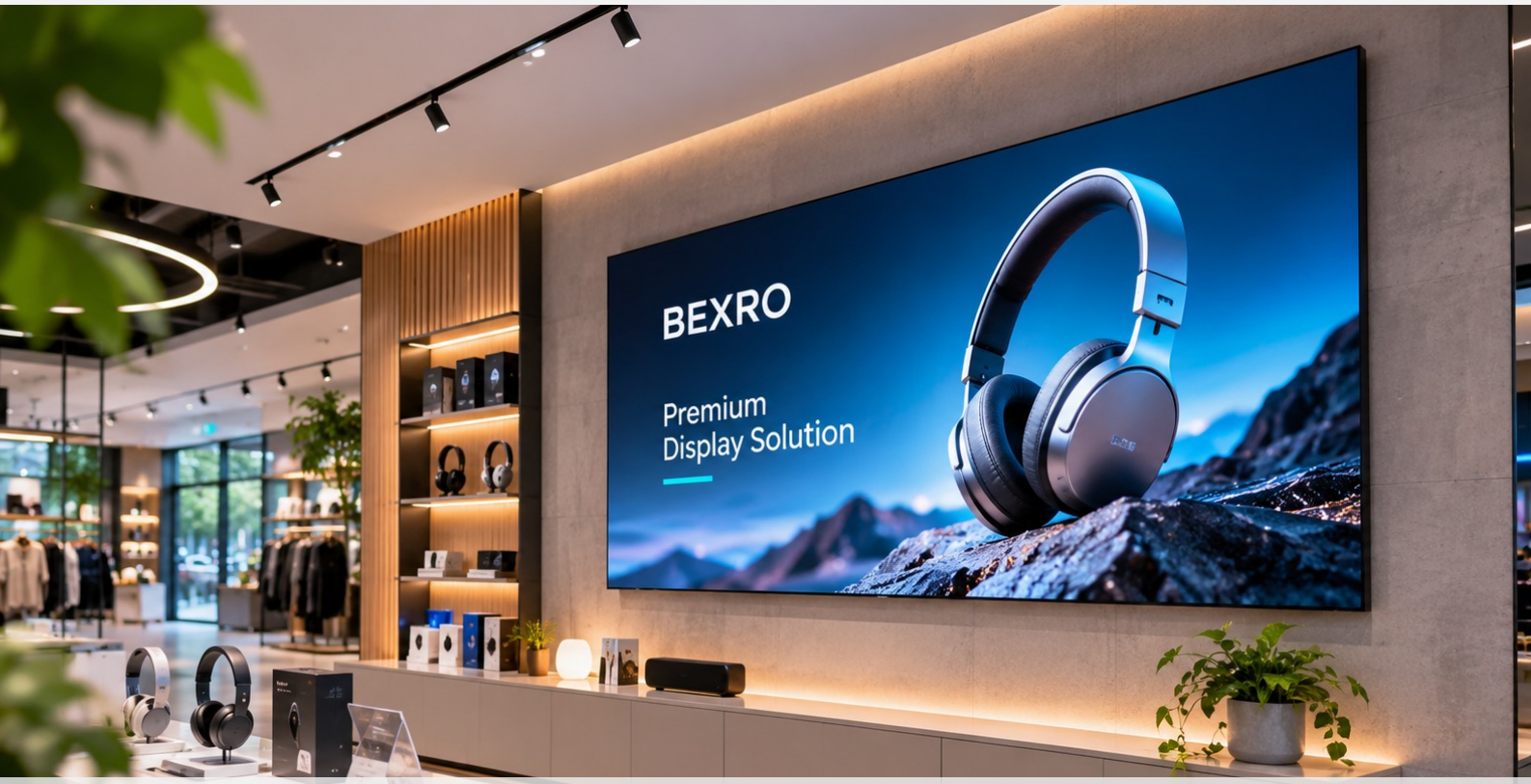
WL158

158-inch wall-mount SMD LED display for indoor use



Durable | **Easy to repair** | **Vivid colours** | **High brightness 600 nits**

Model	WL158-1.86 SMD	WL158-2.5 SMD	WL158-4 SMD
Details	P1.86 SMD 158" Indoor LED	P2.5 SMD 158" Indoor LED	P4 SMD 158" Indoor LED
Module / Pixel pitch	SMD1515 / 1.86 mm	SMD2121 / 2.5 mm	SMD2121 / 4 mm
Module size / Resolution	320 × 160 mm / 172 × 86 px	320 × 160 mm / 128 × 64 px	320 × 160 mm / 80 × 40 px
Modules / Screen size	132 (11 × 12) / 3.52 × 1.92 m	132 (11 × 12) / 3.52 × 1.92 m	132 (11 × 12) / 3.52 × 1.92 m
Resolution / Aspect ratio	1,892 × 1,032 px / 11:6	1,408 × 768 px / 11:6	880 × 480 px / 11:6
Pixel density / Screen area	288,906 px/m² / 6.76 m²	160,000 px/m² / 6.76 m²	62,500 px/m² / 6.76 m²
Viewing angle (H / V)	160° / 140°	160° / 140°	160° / 140°
Contrast ratio	5,000:1	5,000:1	5,000:1
Brightness	600 nits (Optional 800 nits)	600 nits (Optional 800 nits)	600 nits (Optional 800 nits)
Refresh rate	4,200 Hz (Optional 7,680 Hz)	4,200 Hz (Optional 7,680 Hz)	4,200 Hz (Optional 7,680 Hz)
Total pixels	1,952,544 px	1,081,344 px	422,400 px
Controller display outputs	4 Ports	2 Ports	1 Port
Controller input / Media	Video Processor with Multi Input, LED Multimedia Player or All-in-One Controller		
Power (typ. / max.)	90 / 300 W/m²	163 / 488 W/m²	163 / 488 W/m²

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WL169

169-inch wall-mount SMD LED display for indoor use



Durable | **Easy to repair** | **Vivid colours** | **High brightness 600 nits**

Model	WL169-1.86 SMD	WL169-2.5 SMD	WL169-4 SMD
Details	P1.86 SMD 169" Indoor LED	P2.5 SMD 169" Indoor LED	P4 SMD 169" Indoor LED
Module / Pixel pitch	SMD1515 / 1.86 mm	SMD2121 / 2.5 mm	SMD2121 / 4 mm
Module size / Resolution	320 × 160 mm / 172 × 86 px	320 × 160 mm / 128 × 64 px	320 × 160 mm / 80 × 40 px
Modules / Screen size	144 (12 × 12) / 3.84 × 1.92 m	144 (12 × 12) / 3.84 × 1.92 m	144 (12 × 12) / 3.84 × 1.92 m
Resolution / Aspect ratio	2,064 × 1,032 px / 2:1	1,536 × 768 px / 2:1	960 × 480 px / 2:1
Pixel density / Screen area	288,906 px/m² / 7.37 m²	160,000 px/m² / 7.37 m²	62,500 px/m² / 7.37 m²
Viewing angle (H / V)	160° / 140°	160° / 140°	160° / 140°
Contrast ratio	5,000:1	5,000:1	5,000:1
Brightness	600 nits (Optional 800 nits)	600 nits (Optional 800 nits)	600 nits (Optional 800 nits)
Refresh rate	4,200 Hz (Optional 7,680 Hz)	4,200 Hz (Optional 7,680 Hz)	4,200 Hz (Optional 7,680 Hz)
Total pixels	2,130,048 px	1,179,648 px	460,800 px
Controller display outputs	4 Ports	2 Ports	1 Port
Controller input / Media	Video Processor with Multi Input, LED Multimedia Player or All-in-One Controller		
Power (typ. / max.)	90 / 300 W/m²	163 / 488 W/m²	163 / 488 W/m²

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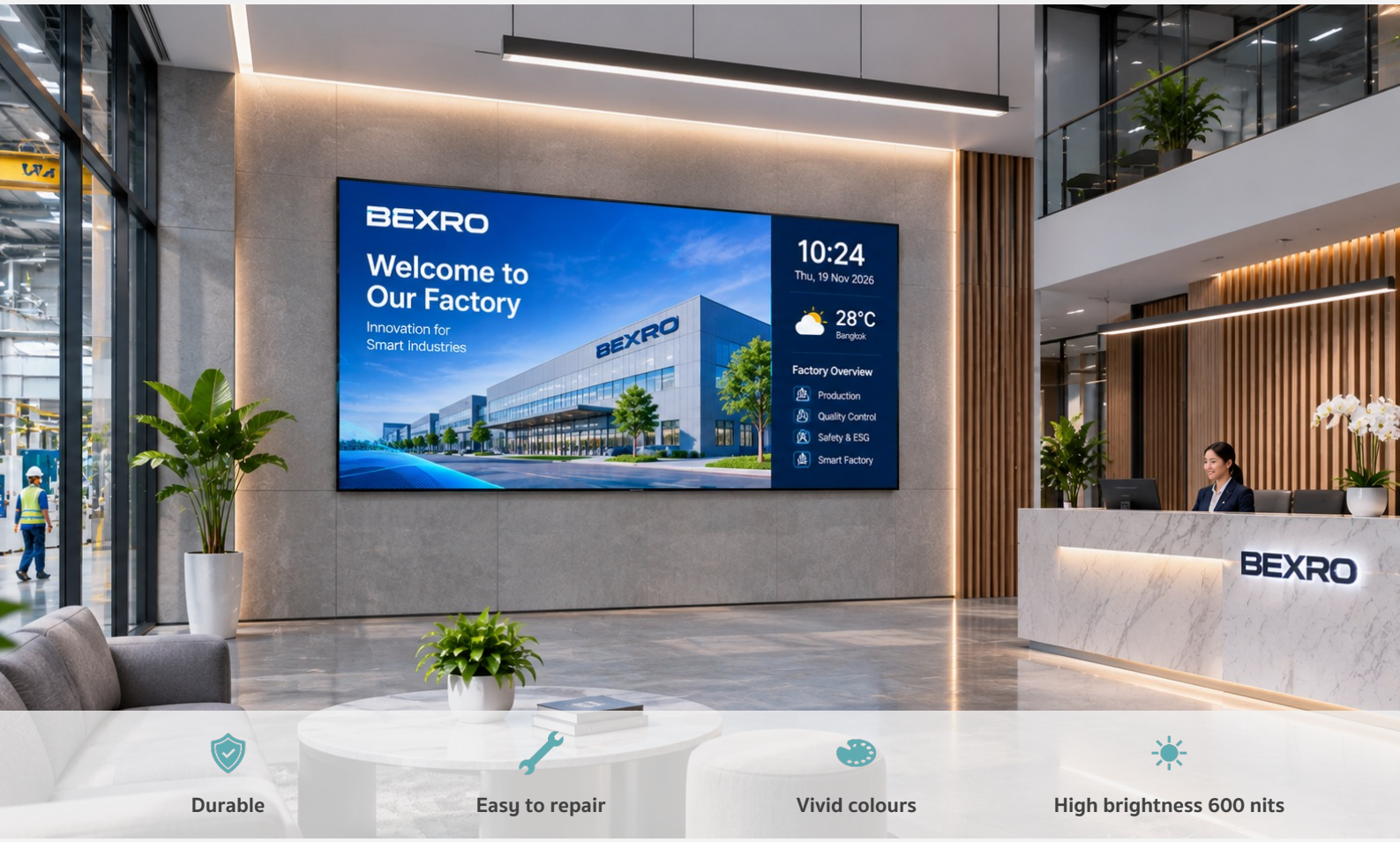
WL172

172-inch wall-mount SMD LED display for indoor use



Durable | **Easy to repair** | **Vivid colours** | **High brightness 600 nits**

Model	WL172-1.86 SMD	WL172-2.5 SMD	WL172-4 SMD
Details	P1.86 SMD 172" Indoor LED	P2.5 SMD 172" Indoor LED	P4 SMD 172" Indoor LED
Module / Pixel pitch	SMD1515 / 1.86 mm	SMD2121 / 2.5 mm	SMD2121 / 4 mm
Module size / Resolution	320 × 160 mm / 172 × 86 px	320 × 160 mm / 128 × 64 px	320 × 160 mm / 80 × 40 px
Modules / Screen size	156 (12 × 13) / 3.84 × 2.08 m	156 (12 × 13) / 3.84 × 2.08 m	156 (12 × 13) / 3.84 × 2.08 m
Resolution / Aspect ratio	2,064 × 1,118 px / 1.85:1	1,536 × 832 px / 1.85:1	960 × 520 px / 1.85:1
Pixel density / Screen area	288,906 px/m² / 7.99 m²	160,000 px/m² / 7.99 m²	62,500 px/m² / 7.99 m²
Viewing angle (H / V)	160° / 140°	160° / 140°	160° / 140°
Contrast ratio	5,000:1	5,000:1	5,000:1
Brightness	600 nits (Optional 800 nits)	600 nits (Optional 800 nits)	600 nits (Optional 800 nits)
Refresh rate	4,200 Hz (Optional 7,680 Hz)	4,200 Hz (Optional 7,680 Hz)	4,200 Hz (Optional 7,680 Hz)
Total pixels	2,307,552 px	1,277,952 px	499,200 px
Controller display outputs	4 Ports	2 Ports	1 Port
Controller input / Media	Video Processor with Multi Input, LED Multimedia Player or All-in-One Controller		
Power (typ. / max.)	90 / 300 W/m²	163 / 488 W/m²	163 / 488 W/m²

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WL186

186-inch wall-mount SMD LED display for indoor use



Durable · **Easy to repair** · **Vivid colours** · **High brightness 600 nits**

Model	WL186-1.86 SMD	WL186-2.5 SMD	WL186-4 SMD
Details	P1.86 SMD 186" Indoor LED	P2.5 SMD 186" Indoor LED	P4 SMD 186" Indoor LED
Module / Pixel pitch	SMD1515 / 1.86 mm	SMD2121 / 2.5 mm	SMD2121 / 4 mm
Module size / Resolution	320 × 160 mm / 172 × 86 px	320 × 160 mm / 128 × 64 px	320 × 160 mm / 80 × 40 px
Modules / Screen size	182 (13 × 14) / 4.16 × 2.24 m	182 (13 × 14) / 4.16 × 2.24 m	182 (13 × 14) / 4.16 × 2.24 m
Resolution / Aspect ratio	2,236 × 1,204 px / 13:7	1,664 × 896 px / 13:7	1,040 × 560 px / 13:7
Pixel density / Screen area	288,906 px/m² / 9.32 m²	160,000 px/m² / 9.32 m²	62,500 px/m² / 9.32 m²
Viewing angle (H / V)	160° / 140°	160° / 140°	160° / 140°
Contrast ratio	5,000:1	5,000:1	5,000:1
Brightness	600 nits (Optional 800 nits)	600 nits (Optional 800 nits)	600 nits (Optional 800 nits)
Refresh rate	4,200 Hz (Optional 7,680 Hz)	4,200 Hz (Optional 7,680 Hz)	4,200 Hz (Optional 7,680 Hz)
Total pixels	2,692,144 px	1,490,944 px	582,400 px
Controller display outputs	5 Ports	3 Ports	1 Port
Controller input / Media	Video Processor with Multi Input, LED Multimedia Player or All-in-One Controller		
Power (typ. / max.)	90 / 300 W/m²	163 / 488 W/m²	163 / 488 W/m²

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WL SERIES

WL203

203-inch wall-mount SMD LED display for indoor use



Durable | **Easy to repair** | **Vivid colours** | **High brightness 600 nits**

Model	WL203-1.86 SMD	WL203-2.5 SMD	WL203-4 SMD
Details	P1.86 SMD 203" Indoor LED	P2.5 SMD 203" Indoor LED	P4 SMD 203" Indoor LED
Module / Pixel pitch	SMD1515 / 1.86 mm	SMD2121 / 2.5 mm	SMD2121 / 4 mm
Module size / Resolution	320 × 160 mm / 172 × 86 px	320 × 160 mm / 128 × 64 px	320 × 160 mm / 80 × 40 px
Modules / Screen size	224 (14 × 16) / 4.48 × 2.56 m	224 (14 × 16) / 4.48 × 2.56 m	224 (14 × 16) / 4.48 × 2.56 m
Resolution / Aspect ratio	2,408 × 1,376 px / 7:4	1,792 × 1,024 px / 7:4	1,120 × 640 px / 7:4
Pixel density / Screen area	288,906 px/m² / 11.47 m²	160,000 px/m² / 11.47 m²	62,500 px/m² / 11.47 m²
Viewing angle (H / V)	160° / 140°	160° / 140°	160° / 140°
Contrast ratio	5,000:1	5,000:1	5,000:1
Brightness	600 nits (Optional 800 nits)	600 nits (Optional 800 nits)	600 nits (Optional 800 nits)
Refresh rate	4,200 Hz (Optional 7,680 Hz)	4,200 Hz (Optional 7,680 Hz)	4,200 Hz (Optional 7,680 Hz)
Total pixels	3,313,408 px	1,835,008 px	716,800 px
Controller display outputs	6 Ports	3 Ports	2 Ports
Controller input / Media	Video Processor with Multi Input, LED Multimedia Player or All-in-One Controller		
Power (typ. / max.)	90 / 300 W/m²	163 / 488 W/m²	163 / 488 W/m²

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WL SERIES

WL217

217-inch wall-mount SMD LED display for indoor use



Durable | **Easy to repair** | **Vivid colours** | **High brightness 600 nits**

Model	WL217-1.86 SMD	WL217-2.5 SMD	WL217-4 SMD
Details	P1.86 SMD 217" Indoor LED	P2.5 SMD 217" Indoor LED	P4 SMD 217" Indoor LED
Module / Pixel pitch	SMD1515 / 1.86 mm	SMD2121 / 2.5 mm	SMD2121 / 4 mm
Module size / Resolution	320 × 160 mm / 172 × 86 px	320 × 160 mm / 128 × 64 px	320 × 160 mm / 80 × 40 px
Modules / Screen size	255 (15 × 17) / 4.80 × 2.72 m	255 (15 × 17) / 4.80 × 2.72 m	255 (15 × 17) / 4.80 × 2.72 m
Resolution / Aspect ratio	2,580 × 1,462 px / 1.76:1	1,920 × 1,088 px / 1.76:1	1,200 × 680 px / 1.76:1
Pixel density / Screen area	288,906 px/m² / 13.06 m²	160,000 px/m² / 13.06 m²	62,500 px/m² / 13.06 m²
Viewing angle (H / V)	160° / 140°	160° / 140°	160° / 140°
Contrast ratio	5,000:1	5,000:1	5,000:1
Brightness	600 nits (Optional 800 nits)	600 nits (Optional 800 nits)	600 nits (Optional 800 nits)
Refresh rate	4,200 Hz (Optional 7,680 Hz)	4,200 Hz (Optional 7,680 Hz)	4,200 Hz (Optional 7,680 Hz)
Total pixels	3,771,960 px	2,088,960 px	816,000 px
Controller display outputs	6 Ports	4 Ports	2 Ports
Controller input / Media	Video Processor with Multi Input, LED Multimedia Player or All-in-One Controller		
Power (typ. / max.)	90 / 300 W/m²	163 / 488 W/m²	163 / 488 W/m²

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WL231

231-inch wall-mount SMD LED display for indoor use



Durable | **Easy to repair** | **Vivid colours** | **High brightness 600 nits**

Model	WL231-1.86 SMD	WL231-2.5 SMD	WL231-4 SMD
Details	P1.86 SMD 231" Indoor LED	P2.5 SMD 231" Indoor LED	P4 SMD 231" Indoor LED
Module / Pixel pitch	SMD1515 / 1.86 mm	SMD2121 / 2.5 mm	SMD2121 / 4 mm
Module size / Resolution	320 × 160 mm / 172 × 86 px	320 × 160 mm / 128 × 64 px	320 × 160 mm / 80 × 40 px
Modules / Screen size	288 (16 × 18) / 5.12 × 2.88 m	288 (16 × 18) / 5.12 × 2.88 m	288 (16 × 18) / 5.12 × 2.88 m
Resolution / Aspect ratio	2,752 × 1,548 px / 16:9	2,048 × 1,152 px / 16:9	1,280 × 720 px / 16:9
Pixel density / Screen area	288,906 px/m² / 14.75 m²	160,000 px/m² / 14.75 m²	62,500 px/m² / 14.75 m²
Viewing angle (H / V)	160° / 140°	160° / 140°	160° / 140°
Contrast ratio	5,000:1	5,000:1	5,000:1
Brightness	600 nits (Optional 800 nits)	600 nits (Optional 800 nits)	600 nits (Optional 800 nits)
Refresh rate	4,200 Hz (Optional 7,680 Hz)	4,200 Hz (Optional 7,680 Hz)	4,200 Hz (Optional 7,680 Hz)
Total pixels	4,260,096 px	2,359,296 px	921,600 px
Controller display outputs	7 Ports	4 Ports	2 Ports
Controller input / Media	Video Processor with Multi Input, LED Multimedia Player or All-in-One Controller		
Power (typ. / max.)	90 / 300 W/m²	163 / 488 W/m²	163 / 488 W/m²