BEXRO
ESSENTIAL



WL-H Series

Outdoor wall-mount LED displays

P2.5 · P3.076 · P4 · P5 | Front Service

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WL-H SERIES

Features & Applications

Key features, applications and installation environment

Product features

IP65 front protection

Front-side glue sealing against rain and moisture

Protected LEDs

High protection class LED lamp, more reliable PCB

Easy to repair

Standard modules, replaced one at a time

6,000 nits brightness

P2.5: 5,000–5,500 nits

7,680 Hz refresh rate

Standard rate, 12–14 bit processing

Wide viewing angle

140° / 140°, 5,000:1 contrast

Recommended applications by size

Model	Screen (m)	Modules	Area (m²)	Recommended use
WL116H	2.56 × 1.44	72	3.69	Shopfront, kiosk, entrance sign
WL130H	2.88 × 1.60	90	4.61	Retail frontage, petrol station price board
WL144H	3.20 × 1.76	110	5.63	Storefront, school gate, car showroom
WL158H	3.52 × 1.92	132	6.76	Campus entrance, hotel facade, shopping plaza
WL169H	3.84 × 1.92	144	7.37	Building facade, transport station, stadium entrance
WL172H	3.84 × 2.08	156	7.99	Outdoor advertising, event venue, plaza
WL186H	4.16 × 2.24	182	9.32	Roadside billboard, shopping mall exterior
WL203H	4.48 × 2.56	224	11.47	Large billboard, stadium, outdoor event stage
WL217H	4.80 × 2.72	255	13.06	Landmark facade, transport hub, city square
WL231H	5.12 × 2.88	288	14.75	Large-format billboard, stadium, city landmark

Installation environment

- **Outdoor installation:** Wall-mount, IP65 front protection
- **Operating temp.:** -20 to +50 °C, 10–80% RH (no condensation)
- **Storage temp.:** -20 to +55 °C, 10–85% RH (no condensation)
- **320 × 160 mm module:** Builds 10 sizes, 116 to 231 inches

Viewing distance and control

- **Distance:** P2.5 ≥2.5 m · P3.076 ≥3.1 m · P4 ≥4 m · P5 ≥5 m
- **Control:** Video Processor (Multi Input), LED Multimedia Player or All-in-One Controller
- **Typical power:** 249–293 W/m² (max. 747–879 W/m²)
- **Inputs:** HDMI input / USB media playback

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WL116H

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



IP65 front

Easy to repair

Vivid colours

High brightness 6,000 nits

Model	WL116H-P2.5	WL116H-P3.076	WL116H-P4	WL116H-P5
Details	P2.5 SMD 116” Outdoor	P3.076 SMD 116” Outdoor	P4 SMD 116” Outdoor	P5 SMD 116” Outdoor
Module / Pixel pitch	SMD1415 / 2.5 mm	SMD1415 / 3.076 mm	SMD1921 / 4 mm	SMD1921 / 5 mm
Module size / Resolution	320×160 mm / 128×64 px	320×160 mm / 104×52 px	320×160 mm / 80×40 px	320×160 mm / 64×32 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	72 (8×9) / 2.56 × 1.44 m
Resolution / Aspect ratio	1,024 × 576 px / 16:9	832 × 468 px / 16:9	640 × 360 px / 16:9	512 × 288 px / 16:9
Pixel density / Screen area	160,000 px/m² / 3.69 m²	105,625 px/m² / 3.69 m²	62,500 px/m² / 3.69 m²	40,000 px/m² / 3.69 m²
Viewing angle (H / V)	140° / 140°	140° / 140°	140° / 140°	140° / 140°
Contrast ratio	5,000:1	5,000:1	5,000:1	5,000:1
Brightness	5,000–5,500 nits	6,000 nits	6,000 nits	6,000 nits
Refresh rate	7,680 Hz	7,680 Hz	7,680 Hz	7,680 Hz
Total pixels	589,824 px	389,376 px	230,400 px	147,456 px
Controller display outputs	1 Port	1 Port	1 Port	1 Port
Waterproof protection	IP65 front; glue-sealed front side, waterproof and moisture-proof; high protection class LED lamp			
Power (typ. / max.)	249 / 747 W/m²	293 / 879 W/m²	293 / 879 W/m²	293 / 879 W/m²

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WL130H

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



IP65 front

Easy to repair

Vivid colours

High brightness 6,000 nits

Model	WL130H-P2.5	WL130H-P3.076	WL130H-P4	WL130H-P5
Details	P2.5 SMD 130” Outdoor	P3.076 SMD 130” Outdoor	P4 SMD 130” Outdoor	P5 SMD 130” Outdoor
Module / Pixel pitch	SMD1415 / 2.5 mm	SMD1415 / 3.076 mm	SMD1921 / 4 mm	SMD1921 / 5 mm
Module size / Resolution	320×160 mm / 128×64 px	320×160 mm / 104×52 px	320×160 mm / 80×40 px	320×160 mm / 64×32 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	90 (9×10) / 2.88 × 1.60 m
Resolution / Aspect ratio	1,152 × 640 px / 9:5	936 × 520 px / 9:5	720 × 400 px / 9:5	576 × 320 px / 9:5
Pixel density / Screen area	160,000 px/m² / 4.61 m²	105,625 px/m² / 4.61 m²	62,500 px/m² / 4.61 m²	40,000 px/m² / 4.61 m²
Viewing angle (H / V)	140° / 140°	140° / 140°	140° / 140°	140° / 140°
Contrast ratio	5,000:1	5,000:1	5,000:1	5,000:1
Brightness	5,000–5,500 nits	6,000 nits	6,000 nits	6,000 nits
Refresh rate	7,680 Hz	7,680 Hz	7,680 Hz	7,680 Hz
Total pixels	737,280 px	486,720 px	288,000 px	184,320 px
Controller display outputs	2 Ports	1 Port	1 Port	1 Port
Waterproof protection	IP65 front; glue-sealed front side, waterproof and moisture-proof; high protection class LED lamp			
Power (typ. / max.)	249 / 747 W/m²	293 / 879 W/m²	293 / 879 W/m²	293 / 879 W/m²

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WL-H SERIES

WL144H

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



IP65 front

Easy to repair

Vivid colours

High brightness 6,000 nits

Model	WL144H-P2.5	WL144H-P3.076	WL144H-P4	WL144H-P5
Details	P2.5 SMD 144" Outdoor	P3.076 SMD 144" Outdoor	P4 SMD 144" Outdoor	P5 SMD 144" Outdoor
Module / Pixel pitch	SMD1415 / 2.5 mm	SMD1415 / 3.076 mm	SMD1921 / 4 mm	SMD1921 / 5 mm
Module size / Resolution	320×160 mm / 128×64 px	320×160 mm / 104×52 px	320×160 mm / 80×40 px	320×160 mm / 64×32 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	110 (10×11) / 3.20 × 1.76 m
Resolution / Aspect ratio	1,280 × 704 px / 1.82:1	1,040 × 572 px / 1.82:1	800 × 440 px / 1.82:1	640 × 352 px / 1.82:1
Pixel density / Screen area	160,000 px/m² / 5.63 m²	105,625 px/m² / 5.63 m²	62,500 px/m² / 5.63 m²	40,000 px/m² / 5.63 m²
Viewing angle (H / V)	140° / 140°	140° / 140°	140° / 140°	140° / 140°
Contrast ratio	5,000:1	5,000:1	5,000:1	5,000:1
Brightness	5,000–5,500 nits	6,000 nits	6,000 nits	6,000 nits
Refresh rate	7,680 Hz	7,680 Hz	7,680 Hz	7,680 Hz
Total pixels	901,120 px	594,880 px	352,000 px	225,280 px
Controller display outputs	2 Ports	1 Port	1 Port	1 Port
Waterproof protection	IP65 front; glue-sealed front side, waterproof and moisture-proof; high protection class LED lamp			
Power (typ. / max.)	249 / 747 W/m²	293 / 879 W/m²	293 / 879 W/m²	293 / 879 W/m²

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WL158H

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



IP65 front

Easy to repair

Vivid colours

High brightness 6,000 nits

Model	WL158H-P2.5	WL158H-P3.076	WL158H-P4	WL158H-P5
Details	P2.5 SMD 158" Outdoor	P3.076 SMD 158" Outdoor	P4 SMD 158" Outdoor	P5 SMD 158" Outdoor
Module / Pixel pitch	SMD1415 / 2.5 mm	SMD1415 / 3.076 mm	SMD1921 / 4 mm	SMD1921 / 5 mm
Module size / Resolution	320×160 mm / 128×64 px	320×160 mm / 104×52 px	320×160 mm / 80×40 px	320×160 mm / 64×32 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	132 (11×12) / 3.52 × 1.92 m
Resolution / Aspect ratio	1,408 × 768 px / 11:6	1,144 × 624 px / 11:6	880 × 480 px / 11:6	704 × 384 px / 11:6
Pixel density / Screen area	160,000 px/m² / 6.76 m²	105,625 px/m² / 6.76 m²	62,500 px/m² / 6.76 m²	40,000 px/m² / 6.76 m²
Viewing angle (H / V)	140° / 140°	140° / 140°	140° / 140°	140° / 140°
Contrast ratio	5,000:1	5,000:1	5,000:1	5,000:1
Brightness	5,000–5,500 nits	6,000 nits	6,000 nits	6,000 nits
Refresh rate	7,680 Hz	7,680 Hz	7,680 Hz	7,680 Hz
Total pixels	1,081,344 px	713,856 px	422,400 px	270,336 px
Controller display outputs	2 Ports	2 Ports	1 Port	1 Port
Waterproof protection	IP65 front; glue-sealed front side, waterproof and moisture-proof; high protection class LED lamp			
Power (typ. / max.)	249 / 747 W/m²	293 / 879 W/m²	293 / 879 W/m²	293 / 879 W/m²

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WL-H SERIES

WL169H

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



IP65 front

Easy to repair

Vivid colours

High brightness 6,000 nits

Model	WL169H-P2.5	WL169H-P3.076	WL169H-P4	WL169H-P5
Details	P2.5 SMD 169" Outdoor	P3.076 SMD 169" Outdoor	P4 SMD 169" Outdoor	P5 SMD 169" Outdoor
Module / Pixel pitch	SMD1415 / 2.5 mm	SMD1415 / 3.076 mm	SMD1921 / 4 mm	SMD1921 / 5 mm
Module size / Resolution	320×160 mm / 128×64 px	320×160 mm / 104×52 px	320×160 mm / 80×40 px	320×160 mm / 64×32 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	144 (12×12) / 3.84 × 1.92 m
Resolution / Aspect ratio	1,536 × 768 px / 2:1	1,248 × 624 px / 2:1	960 × 480 px / 2:1	768 × 384 px / 2:1
Pixel density / Screen area	160,000 px/m² / 7.37 m²	105,625 px/m² / 7.37 m²	62,500 px/m² / 7.37 m²	40,000 px/m² / 7.37 m²
Viewing angle (H / V)	140° / 140°	140° / 140°	140° / 140°	140° / 140°
Contrast ratio	5,000:1	5,000:1	5,000:1	5,000:1
Brightness	5,000–5,500 nits	6,000 nits	6,000 nits	6,000 nits
Refresh rate	7,680 Hz	7,680 Hz	7,680 Hz	7,680 Hz
Total pixels	1,179,648 px	778,752 px	460,800 px	294,912 px
Controller display outputs	2 Ports	2 Ports	1 Port	1 Port
Waterproof protection	IP65 front; glue-sealed front side, waterproof and moisture-proof; high protection class LED lamp			
Power (typ. / max.)	249 / 747 W/m²	293 / 879 W/m²	293 / 879 W/m²	293 / 879 W/m²

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WL-H SERIES

WL172H

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



IP65 front

Easy to repair

Vivid colours

High brightness 6,000 nits

Model	WL172H-P2.5	WL172H-P3.076	WL172H-P4	WL172H-P5
Details	P2.5 SMD 172” Outdoor	P3.076 SMD 172” Outdoor	P4 SMD 172” Outdoor	P5 SMD 172” Outdoor
Module / Pixel pitch	SMD1415 / 2.5 mm	SMD1415 / 3.076 mm	SMD1921 / 4 mm	SMD1921 / 5 mm
Module size / Resolution	320×160 mm / 128×64 px	320×160 mm / 104×52 px	320×160 mm / 80×40 px	320×160 mm / 64×32 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	156 (12×13) / 3.84 × 2.08 m
Resolution / Aspect ratio	1,536 × 832 px / 1.85:1	1,248 × 676 px / 1.85:1	960 × 520 px / 1.85:1	768 × 416 px / 1.85:1
Pixel density / Screen area	160,000 px/m² / 7.99 m²	105,625 px/m² / 7.99 m²	62,500 px/m² / 7.99 m²	40,000 px/m² / 7.99 m²
Viewing angle (H / V)	140° / 140°	140° / 140°	140° / 140°	140° / 140°
Contrast ratio	5,000:1	5,000:1	5,000:1	5,000:1
Brightness	5,000–5,500 nits	6,000 nits	6,000 nits	6,000 nits
Refresh rate	7,680 Hz	7,680 Hz	7,680 Hz	7,680 Hz
Total pixels	1,277,952 px	843,648 px	499,200 px	319,488 px
Controller display outputs	2 Ports	2 Ports	1 Port	1 Port
Waterproof protection	IP65 front; glue-sealed front side, waterproof and moisture-proof; high protection class LED lamp			
Power (typ. / max.)	249 / 747 W/m²	293 / 879 W/m²	293 / 879 W/m²	293 / 879 W/m²

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WL-H SERIES

WL186H

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



IP65 front | **Easy to repair** | **Vivid colours** | **High brightness 6,000 nits**

Model	WL186H-P2.5	WL186H-P3.076	WL186H-P4	WL186H-P5
Details	P2.5 SMD 186" Outdoor	P3.076 SMD 186" Outdoor	P4 SMD 186" Outdoor	P5 SMD 186" Outdoor
Module / Pixel pitch	SMD1415 / 2.5 mm	SMD1415 / 3.076 mm	SMD1921 / 4 mm	SMD1921 / 5 mm
Module size / Resolution	320×160 mm / 128×64 px	320×160 mm / 104×52 px	320×160 mm / 80×40 px	320×160 mm / 64×32 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	182 (13×14) / 4.16 × 2.24 m
Resolution / Aspect ratio	1,664 × 896 px / 13:7	1,352 × 728 px / 13:7	1,040 × 560 px / 13:7	832 × 448 px / 13:7
Pixel density / Screen area	160,000 px/m² / 9.32 m²	105,625 px/m² / 9.32 m²	62,500 px/m² / 9.32 m²	40,000 px/m² / 9.32 m²
Viewing angle (H / V)	140° / 140°	140° / 140°	140° / 140°	140° / 140°
Contrast ratio	5,000:1	5,000:1	5,000:1	5,000:1
Brightness	5,000–5,500 nits	6,000 nits	6,000 nits	6,000 nits
Refresh rate	7,680 Hz	7,680 Hz	7,680 Hz	7,680 Hz
Total pixels	1,490,944 px	984,256 px	582,400 px	372,736 px
Controller display outputs	3 Ports	2 Ports	1 Port	1 Port
Waterproof protection	IP65 front; glue-sealed front side, waterproof and moisture-proof; high protection class LED lamp			
Power (typ. / max.)	249 / 747 W/m²	293 / 879 W/m²	293 / 879 W/m²	293 / 879 W/m²

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WL-H SERIES

WL203H

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



IP65 front | **Easy to repair** | **Vivid colours** | **High brightness 6,000 nits**

Model	WL203H-P2.5	WL203H-P3.076	WL203H-P4	WL203H-P5
Details	P2.5 SMD 203" Outdoor	P3.076 SMD 203" Outdoor	P4 SMD 203" Outdoor	P5 SMD 203" Outdoor
Module / Pixel pitch	SMD1415 / 2.5 mm	SMD1415 / 3.076 mm	SMD1921 / 4 mm	SMD1921 / 5 mm
Module size / Resolution	320×160 mm / 128×64 px	320×160 mm / 104×52 px	320×160 mm / 80×40 px	320×160 mm / 64×32 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	224 (14×16) / 4.48 × 2.56 m
Resolution / Aspect ratio	1,792 × 1,024 px / 7:4	1,456 × 832 px / 7:4	1,120 × 640 px / 7:4	896 × 512 px / 7:4
Pixel density / Screen area	160,000 px/m² / 11.47 m²	105,625 px/m² / 11.47 m²	62,500 px/m² / 11.47 m²	40,000 px/m² / 11.47 m²
Viewing angle (H / V)	140° / 140°	140° / 140°	140° / 140°	140° / 140°
Contrast ratio	5,000:1	5,000:1	5,000:1	5,000:1
Brightness	5,000–5,500 nits	6,000 nits	6,000 nits	6,000 nits
Refresh rate	7,680 Hz	7,680 Hz	7,680 Hz	7,680 Hz
Total pixels	1,835,008 px	1,211,392 px	716,800 px	458,752 px
Controller display outputs	3 Ports	2 Ports	2 Ports	1 Port
Waterproof protection	IP65 front; glue-sealed front side, waterproof and moisture-proof; high protection class LED lamp			
Power (typ. / max.)	249 / 747 W/m²	293 / 879 W/m²	293 / 879 W/m²	293 / 879 W/m²

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WL-H SERIES

WL217H

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



IP65 front

Easy to repair

Vivid colours

High brightness 6,000 nits

Model	WL217H-P2.5	WL217H-P3.076	WL217H-P4	WL217H-P5
Details	P2.5 SMD 217" Outdoor	P3.076 SMD 217" Outdoor	P4 SMD 217" Outdoor	P5 SMD 217" Outdoor
Module / Pixel pitch	SMD1415 / 2.5 mm	SMD1415 / 3.076 mm	SMD1921 / 4 mm	SMD1921 / 5 mm
Module size / Resolution	320×160 mm / 128×64 px	320×160 mm / 104×52 px	320×160 mm / 80×40 px	320×160 mm / 64×32 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	255 (15×17) / 4.80 × 2.72 m
Resolution / Aspect ratio	1,920 × 1,088 px / 1.76:1	1,560 × 884 px / 1.76:1	1,200 × 680 px / 1.76:1	960 × 544 px / 1.76:1
Pixel density / Screen area	160,000 px/m² / 13.06 m²	105,625 px/m² / 13.06 m²	62,500 px/m² / 13.06 m²	40,000 px/m² / 13.06 m²
Viewing angle (H / V)	140° / 140°	140° / 140°	140° / 140°	140° / 140°
Contrast ratio	5,000:1	5,000:1	5,000:1	5,000:1
Brightness	5,000–5,500 nits	6,000 nits	6,000 nits	6,000 nits
Refresh rate	7,680 Hz	7,680 Hz	7,680 Hz	7,680 Hz
Total pixels	2,088,960 px	1,379,040 px	816,000 px	522,240 px
Controller display outputs	4 Ports	3 Ports	2 Ports	1 Port
Waterproof protection	IP65 front; glue-sealed front side, waterproof and moisture-proof; high protection class LED lamp			
Power (typ. / max.)	249 / 747 W/m²	293 / 879 W/m²	293 / 879 W/m²	293 / 879 W/m²

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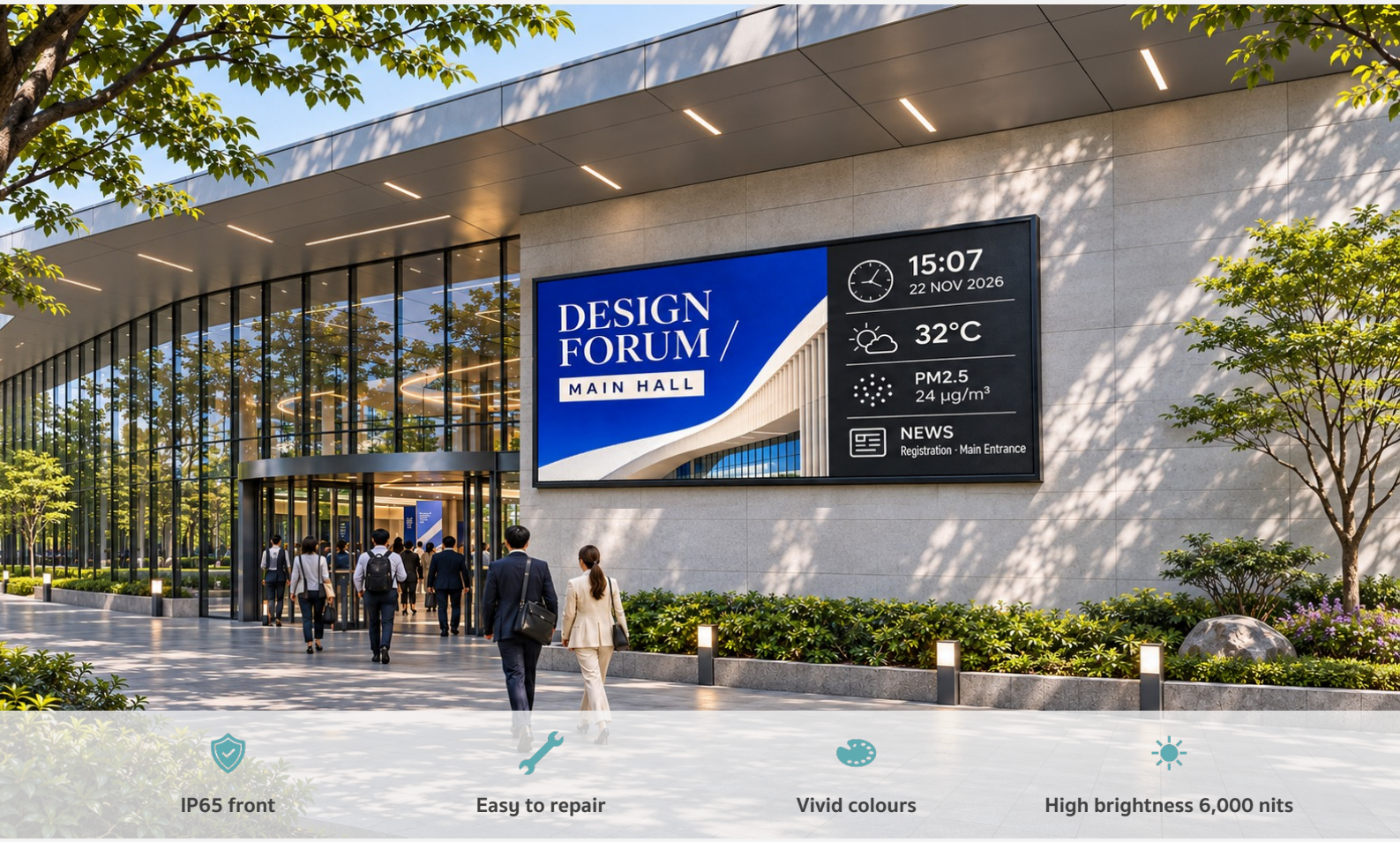
WL-H SERIES

WL231H

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



IP65 front

Easy to repair

Vivid colours

High brightness 6,000 nits

Model	WL231H-P2.5	WL231H-P3.076	WL231H-P4	WL231H-P5
Details	P2.5 SMD 231" Outdoor	P3.076 SMD 231" Outdoor	P4 SMD 231" Outdoor	P5 SMD 231" Outdoor
Module / Pixel pitch	SMD1415 / 2.5 mm	SMD1415 / 3.076 mm	SMD1921 / 4 mm	SMD1921 / 5 mm
Module size / Resolution	320×160 mm / 128×64 px	320×160 mm / 104×52 px	320×160 mm / 80×40 px	320×160 mm / 64×32 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	288 (16×18) / 5.12 × 2.88 m
Resolution / Aspect ratio	2,048 × 1,152 px / 16:9	1,664 × 936 px / 16:9	1,280 × 720 px / 16:9	1,024 × 576 px / 16:9
Pixel density / Screen area	160,000 px/m² / 14.75 m²	105,625 px/m² / 14.75 m²	62,500 px/m² / 14.75 m²	40,000 px/m² / 14.75 m²
Viewing angle (H / V)	140° / 140°	140° / 140°	140° / 140°	140° / 140°
Contrast ratio	5,000:1	5,000:1	5,000:1	5,000:1
Brightness	5,000–5,500 nits	6,000 nits	6,000 nits	6,000 nits
Refresh rate	7,680 Hz	7,680 Hz	7,680 Hz	7,680 Hz
Total pixels	2,359,296 px	1,557,504 px	921,600 px	589,824 px
Controller display outputs	4 Ports	3 Ports	2 Ports	1 Port
Waterproof protection	IP65 front; glue-sealed front side, waterproof and moisture-proof; high protection class LED lamp			
Power (typ. / max.)	249 / 747 W/m²	293 / 879 W/m²	293 / 879 W/m²	293 / 879 W/m²