BEXRO
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WL COB Series

WALL-MOUNT INDOOR LED DISPLAY

P1.25 · P1.538 · P1.86 | Full Flip Chip COB

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WL COB SERIES

Features & Applications

Key features, applications and installation environment

Product features

Full Flip Chip COB

No bonding wires, fewer dead pixels, uniform image

Front Protection IP65

Water- and dust-proof surface, easy to clean

Impact-resistant

COB surface shields LEDs from knocks and ESD

High resolution

P1.25–P1.86, up to 640,000 px/m²

3,840 Hz refresh rate

Smooth motion, flicker-free on camera

160° viewing angle

10,000:1 contrast, sharp from every seat

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 centerpiece, museum hall

Installation environment

- **Indoor installation:** Wall-mount
- **IP65 front:** Water- and dust-proof for high-traffic areas
- **600 nits brightness:** Adjustable for meeting rooms and classrooms
- **320 × 160 mm module:** Builds 10 sizes, 116 to 231 inches

Viewing distance and control

- **Distance:** P1.25 ≥1.3 m · P1.538 ≥1.6 m · P1.86 ≥1.9 m
- **Control:** Video Processor (Multi Input), LED Multimedia Player or All-in-One Controller
- **Typical power:** 125–150 W/m² (max. 280–400 W/m²)
- **Inputs:** HDMI input / USB media playback

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WL116

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



IP65 waterproof durability | **Impact-resistant** | **High resolution** | **Full Flip Chip**

Model	WL116-1.25 COB	WL116-1.5 COB	WL116-1.8 COB
Details	P1.25 COB 116” Indoor LED	P1.538 COB 116” Indoor LED	P1.86 COB 116” Indoor LED
Module / Pixel pitch	Full Flip Chip COB / 1.25 mm	Full Flip Chip COB / 1.538 mm	Full Flip Chip COB / 1.86 mm
Front Protection	IP65 / Water & impact-proof	IP65 / Water & impact-proof	IP65 / Water & impact-proof
Module size / Resolution	320 × 160 mm / 256 × 128 px	320 × 160 mm / 208 × 104 px	320 × 160 mm / 172 × 86 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	2,048 × 1,152 px / 16:9	1,664 × 936 px / 16:9	1,376 × 774 px / 16:9
Pixel density / Screen area	640,000 px/m² / 3.69 m²	422,500 px/m² / 3.69 m²	288,906 px/m² / 3.69 m²
Viewing angle (H / V)	160° / 160°	160° / 160°	160° / 160°
Contrast ratio	10,000:1	10,000:1	10,000:1
Brightness	600 nits	600 nits	600 nits
Refresh rate	3,840 Hz	3,840 Hz	3,840 Hz
Total pixels	2,359,296 px	1,557,504 px	1,065,024 px
Controller display outputs	4 Ports	3 Ports	2 Ports
Controller input / Media	Video Processor with Multi Input, LED Multimedia Player or All-in-One Controller		
Power (typ. / max.)	150 / 400 W/m²	137 / 293 W/m²	125 / 280 W/m²

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WL COB SERIES

WL130

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



IP65 waterproof durability | **Impact-resistant** | **High resolution** | **Full Flip Chip**

Model	WL130-1.25 COB	WL130-1.5 COB	WL130-1.8 COB
Details	P1.25 COB 130” Indoor LED	P1.538 COB 130” Indoor LED	P1.86 COB 130” Indoor LED
Module / Pixel pitch	Full Flip Chip COB / 1.25 mm	Full Flip Chip COB / 1.538 mm	Full Flip Chip COB / 1.86 mm
Front Protection	IP65 / Water & impact-proof	IP65 / Water & impact-proof	IP65 / Water & impact-proof
Module size / Resolution	320 × 160 mm / 256 × 128 px	320 × 160 mm / 208 × 104 px	320 × 160 mm / 172 × 86 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	2,304 × 1,280 px / 9:5	1,872 × 1,040 px / 9:5	1,548 × 860 px / 9:5
Pixel density / Screen area	640,000 px/m² / 4.61 m²	422,500 px/m² / 4.61 m²	288,906 px/m² / 4.61 m²
Viewing angle (H / V)	160° / 160°	160° / 160°	160° / 160°
Contrast ratio	10,000:1	10,000:1	10,000:1
Brightness	600 nits	600 nits	600 nits
Refresh rate	3,840 Hz	3,840 Hz	3,840 Hz
Total pixels	2,949,120 px	1,946,880 px	1,331,280 px
Controller display outputs	5 Ports	3 Ports	3 Ports
Controller input / Media	Video Processor with Multi Input, LED Multimedia Player or All-in-One Controller		
Power (typ. / max.)	150 / 400 W/m²	137 / 293 W/m²	125 / 280 W/m²

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WL COB SERIES

WL144

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



IP65 waterproof durability | **Impact-resistant** | **High resolution** | **Full Flip Chip**

Model	WL144-1.25 COB	WL144-1.5 COB	WL144-1.8 COB
Details	P1.25 COB 144" Indoor LED	P1.538 COB 144" Indoor LED	P1.86 COB 144" Indoor LED
Module / Pixel pitch	Full Flip Chip COB / 1.25 mm	Full Flip Chip COB / 1.538 mm	Full Flip Chip COB / 1.86 mm
Front Protection	IP65 / Water & impact-proof	IP65 / Water & impact-proof	IP65 / Water & impact-proof
Module size / Resolution	320 × 160 mm / 256 × 128 px	320 × 160 mm / 208 × 104 px	320 × 160 mm / 172 × 86 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	2,560 × 1,408 px / 1.82:1	2,080 × 1,144 px / 1.82:1	1,720 × 946 px / 1.82:1
Pixel density / Screen area	640,000 px/m² / 5.63 m²	422,500 px/m² / 5.63 m²	288,906 px/m² / 5.63 m²
Viewing angle (H / V)	160° / 160°	160° / 160°	160° / 160°
Contrast ratio	10,000:1	10,000:1	10,000:1
Brightness	600 nits	600 nits	600 nits
Refresh rate	3,840 Hz	3,840 Hz	3,840 Hz
Total pixels	3,604,480 px	2,379,520 px	1,627,120 px
Controller display outputs	6 Ports	4 Ports	3 Ports
Controller input / Media	Video Processor with Multi Input, LED Multimedia Player or All-in-One Controller		
Power (typ. / max.)	150 / 400 W/m²	137 / 293 W/m²	125 / 280 W/m²

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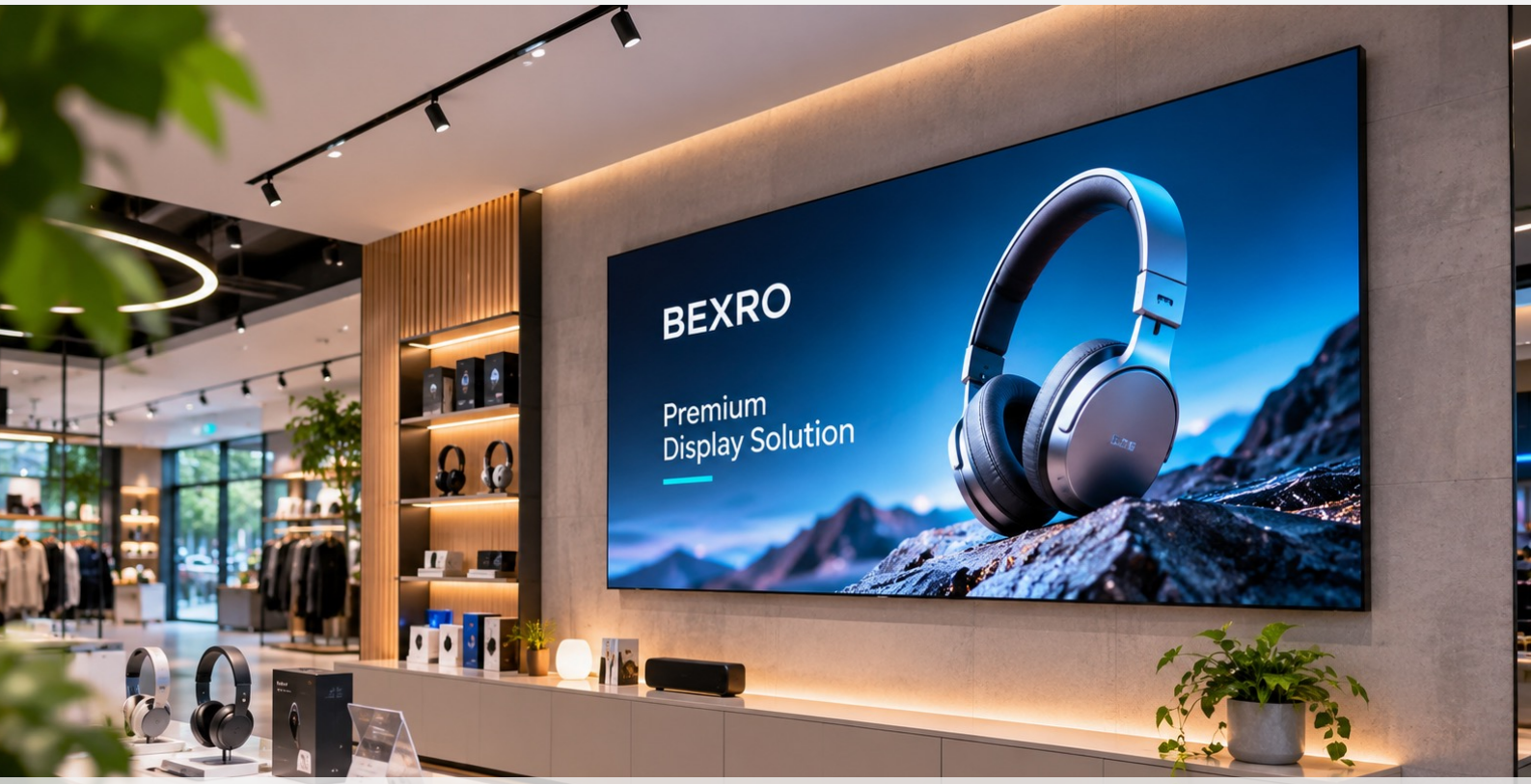
WL158

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



IP65 waterproof durability | **Impact-resistant** | **High resolution** | **Full Flip Chip**

Model	WL158-1.25 COB	WL158-1.5 COB	WL158-1.8 COB
Details	P1.25 COB 158" Indoor LED	P1.538 COB 158" Indoor LED	P1.86 COB 158" Indoor LED
Module / Pixel pitch	Full Flip Chip COB / 1.25 mm	Full Flip Chip COB / 1.538 mm	Full Flip Chip COB / 1.86 mm
Front Protection	IP65 / Water & impact-proof	IP65 / Water & impact-proof	IP65 / Water & impact-proof
Module size / Resolution	320 × 160 mm / 256 × 128 px	320 × 160 mm / 208 × 104 px	320 × 160 mm / 172 × 86 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	2,816 × 1,536 px / 11:6	2,288 × 1,248 px / 11:6	1,892 × 1,032 px / 11:6
Pixel density / Screen area	640,000 px/m² / 6.76 m²	422,500 px/m² / 6.76 m²	288,906 px/m² / 6.76 m²
Viewing angle (H / V)	160° / 160°	160° / 160°	160° / 160°
Contrast ratio	10,000:1	10,000:1	10,000:1
Brightness	600 nits	600 nits	600 nits
Refresh rate	3,840 Hz	3,840 Hz	3,840 Hz
Total pixels	4,325,376 px	2,855,424 px	1,952,544 px
Controller display outputs	7 Ports	5 Ports	4 Ports
Controller input / Media	Video Processor with Multi Input, LED Multimedia Player or All-in-One Controller		
Power (typ. / max.)	150 / 400 W/m²	137 / 293 W/m²	125 / 280 W/m²

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WL COB SERIES

WL169

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



IP65 waterproof durability | **Impact-resistant** | **High resolution** | **Full Flip Chip**

Model	WL169-1.25 COB	WL169-1.5 COB	WL169-1.8 COB
Details	P1.25 COB 169" Indoor LED	P1.538 COB 169" Indoor LED	P1.86 COB 169" Indoor LED
Module / Pixel pitch	Full Flip Chip COB / 1.25 mm	Full Flip Chip COB / 1.538 mm	Full Flip Chip COB / 1.86 mm
Front Protection	IP65 / Water & impact-proof	IP65 / Water & impact-proof	IP65 / Water & impact-proof
Module size / Resolution	320 × 160 mm / 256 × 128 px	320 × 160 mm / 208 × 104 px	320 × 160 mm / 172 × 86 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	3,072 × 1,536 px / 2:1	2,496 × 1,248 px / 2:1	2,064 × 1,032 px / 2:1
Pixel density / Screen area	640,000 px/m² / 7.37 m²	422,500 px/m² / 7.37 m²	288,906 px/m² / 7.37 m²
Viewing angle (H / V)	160° / 160°	160° / 160°	160° / 160°
Contrast ratio	10,000:1	10,000:1	10,000:1
Brightness	600 nits	600 nits	600 nits
Refresh rate	3,840 Hz	3,840 Hz	3,840 Hz
Total pixels	4,718,592 px	3,115,008 px	2,130,048 px
Controller display outputs	8 Ports	5 Ports	4 Ports
Controller input / Media	Video Processor with Multi Input, LED Multimedia Player or All-in-One Controller		
Power (typ. / max.)	150 / 400 W/m²	137 / 293 W/m²	125 / 280 W/m²

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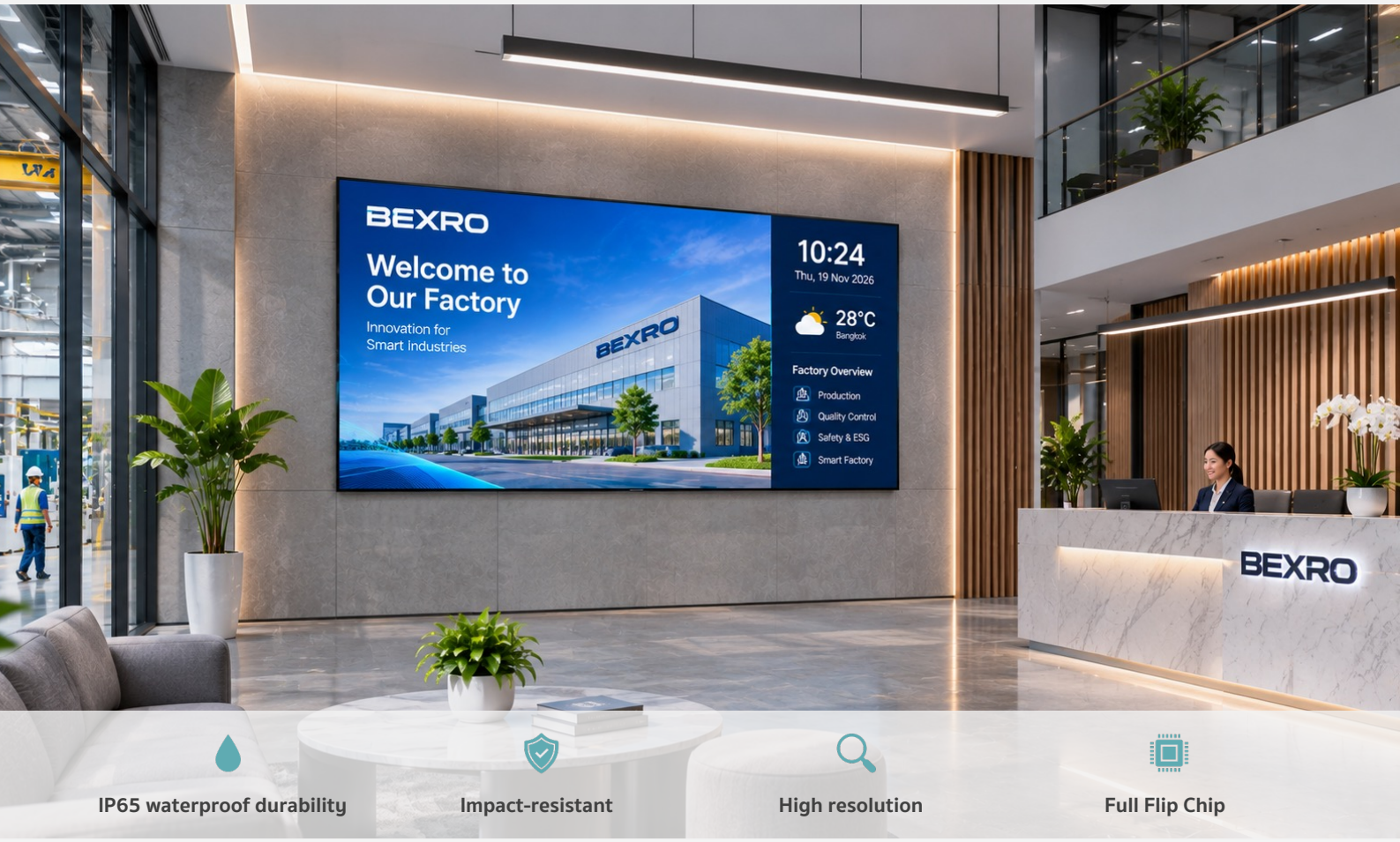
WL COB SERIES

WL172

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



IP65 waterproof durability | **Impact-resistant** | **High resolution** | **Full Flip Chip**

Model	WL172-1.25 COB	WL172-1.5 COB	WL172-1.8 COB
Details	P1.25 COB 172" Indoor LED	P1.538 COB 172" Indoor LED	P1.86 COB 172" Indoor LED
Module / Pixel pitch	Full Flip Chip COB / 1.25 mm	Full Flip Chip COB / 1.538 mm	Full Flip Chip COB / 1.86 mm
Front Protection	IP65 / Water & impact-proof	IP65 / Water & impact-proof	IP65 / Water & impact-proof
Module size / Resolution	320 × 160 mm / 256 × 128 px	320 × 160 mm / 208 × 104 px	320 × 160 mm / 172 × 86 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	3,072 × 1,664 px / 1.85:1	2,496 × 1,352 px / 1.85:1	2,064 × 1,118 px / 1.85:1
Pixel density / Screen area	640,000 px/m² / 7.99 m²	422,500 px/m² / 7.99 m²	288,906 px/m² / 7.99 m²
Viewing angle (H / V)	160° / 160°	160° / 160°	160° / 160°
Contrast ratio	10,000:1	10,000:1	10,000:1
Brightness	600 nits	600 nits	600 nits
Refresh rate	3,840 Hz	3,840 Hz	3,840 Hz
Total pixels	5,111,808 px	3,374,592 px	2,307,552 px
Controller display outputs	8 Ports	6 Ports	4 Ports
Controller input / Media	Video Processor with Multi Input, LED Multimedia Player or All-in-One Controller		
Power (typ. / max.)	150 / 400 W/m²	137 / 293 W/m²	125 / 280 W/m²

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WL COB SERIES

WL186

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



IP65 waterproof durability

Impact-resistant

High resolution

Full Flip Chip

Model	WL186-1.25 COB	WL186-1.5 COB	WL186-1.8 COB
Details	P1.25 COB 186" Indoor LED	P1.538 COB 186" Indoor LED	P1.86 COB 186" Indoor LED
Module / Pixel pitch	Full Flip Chip COB / 1.25 mm	Full Flip Chip COB / 1.538 mm	Full Flip Chip COB / 1.86 mm
Front Protection	IP65 / Water & impact-proof	IP65 / Water & impact-proof	IP65 / Water & impact-proof
Module size / Resolution	320 × 160 mm / 256 × 128 px	320 × 160 mm / 208 × 104 px	320 × 160 mm / 172 × 86 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	3,328 × 1,792 px / 13:7	2,704 × 1,456 px / 13:7	2,236 × 1,204 px / 13:7
Pixel density / Screen area	640,000 px/m² / 9.32 m²	422,500 px/m² / 9.32 m²	288,906 px/m² / 9.32 m²
Viewing angle (H / V)	160° / 160°	160° / 160°	160° / 160°
Contrast ratio	10,000:1	10,000:1	10,000:1
Brightness	600 nits	600 nits	600 nits
Refresh rate	3,840 Hz	3,840 Hz	3,840 Hz
Total pixels	5,963,776 px	3,937,024 px	2,692,144 px
Controller display outputs	10 Ports	7 Ports	5 Ports
Controller input / Media	Video Processor with Multi Input, LED Multimedia Player or All-in-One Controller		
Power (typ. / max.)	150 / 400 W/m²	137 / 293 W/m²	125 / 280 W/m²

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WL COB SERIES

WL203

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



IP65 waterproof durability | **Impact-resistant** | **High resolution** | **Full Flip Chip**

Model	WL203-1.25 COB	WL203-1.5 COB	WL203-1.8 COB
Details	P1.25 COB 203" Indoor LED	P1.538 COB 203" Indoor LED	P1.86 COB 203" Indoor LED
Module / Pixel pitch	Full Flip Chip COB / 1.25 mm	Full Flip Chip COB / 1.538 mm	Full Flip Chip COB / 1.86 mm
Front Protection	IP65 / Water & impact-proof	IP65 / Water & impact-proof	IP65 / Water & impact-proof
Module size / Resolution	320 × 160 mm / 256 × 128 px	320 × 160 mm / 208 × 104 px	320 × 160 mm / 172 × 86 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	3,584 × 2,048 px / 7:4	2,912 × 1,664 px / 7:4	2,408 × 1,376 px / 7:4
Pixel density / Screen area	640,000 px/m² / 11.47 m²	422,500 px/m² / 11.47 m²	288,906 px/m² / 11.47 m²
Viewing angle (H / V)	160° / 160°	160° / 160°	160° / 160°
Contrast ratio	10,000:1	10,000:1	10,000:1
Brightness	600 nits	600 nits	600 nits
Refresh rate	3,840 Hz	3,840 Hz	3,840 Hz
Total pixels	7,340,032 px	4,845,568 px	3,313,408 px
Controller display outputs	12 Ports	8 Ports	6 Ports
Controller input / Media	Video Processor with Multi Input, LED Multimedia Player or All-in-One Controller		
Power (typ. / max.)	150 / 400 W/m²	137 / 293 W/m²	125 / 280 W/m²

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WL COB SERIES

WL217

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



IP65 waterproof durability | **Impact-resistant** | **High resolution** | **Full Flip Chip**

Model	WL217-1.25 COB	WL217-1.5 COB	WL217-1.8 COB
Details	P1.25 COB 217" Indoor LED	P1.538 COB 217" Indoor LED	P1.86 COB 217" Indoor LED
Module / Pixel pitch	Full Flip Chip COB / 1.25 mm	Full Flip Chip COB / 1.538 mm	Full Flip Chip COB / 1.86 mm
Front Protection	IP65 / Water & impact-proof	IP65 / Water & impact-proof	IP65 / Water & impact-proof
Module size / Resolution	320 × 160 mm / 256 × 128 px	320 × 160 mm / 208 × 104 px	320 × 160 mm / 172 × 86 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	3,840 × 2,176 px / 1.76:1	3,120 × 1,768 px / 1.76:1	2,580 × 1,462 px / 1.76:1
Pixel density / Screen area	640,000 px/m² / 13.06 m²	422,500 px/m² / 13.06 m²	288,906 px/m² / 13.06 m²
Viewing angle (H / V)	160° / 160°	160° / 160°	160° / 160°
Contrast ratio	10,000:1	10,000:1	10,000:1
Brightness	600 nits	600 nits	600 nits
Refresh rate	3,840 Hz	3,840 Hz	3,840 Hz
Total pixels	8,355,840 px	5,516,160 px	3,771,960 px
Controller display outputs	13 Ports	9 Ports	6 Ports
Controller input / Media	Video Processor with Multi Input, LED Multimedia Player or All-in-One Controller		
Power (typ. / max.)	150 / 400 W/m²	137 / 293 W/m²	125 / 280 W/m²

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WL COB SERIES

WL231

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



IP65 waterproof durability | **Impact-resistant** | **High resolution** | **Full Flip Chip**

Model	WL231-1.25 COB	WL231-1.5 COB	WL231-1.8 COB
Details	P1.25 COB 231" Indoor LED	P1.538 COB 231" Indoor LED	P1.86 COB 231" Indoor LED
Module / Pixel pitch	Full Flip Chip COB / 1.25 mm	Full Flip Chip COB / 1.538 mm	Full Flip Chip COB / 1.86 mm
Front Protection	IP65 / Water & impact-proof	IP65 / Water & impact-proof	IP65 / Water & impact-proof
Module size / Resolution	320 × 160 mm / 256 × 128 px	320 × 160 mm / 208 × 104 px	320 × 160 mm / 172 × 86 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	4,096 × 2,304 px / 16:9	3,328 × 1,872 px / 16:9	2,752 × 1,548 px / 16:9
Pixel density / Screen area	640,000 px/m² / 14.75 m²	422,500 px/m² / 14.75 m²	288,906 px/m² / 14.75 m²
Viewing angle (H / V)	160° / 160°	160° / 160°	160° / 160°
Contrast ratio	10,000:1	10,000:1	10,000:1
Brightness	600 nits	600 nits	600 nits
Refresh rate	3,840 Hz	3,840 Hz	3,840 Hz
Total pixels	9,437,184 px	6,230,016 px	4,260,096 px
Controller display outputs	15 Ports	10 Ports	7 Ports
Controller input / Media	Video Processor with Multi Input, LED Multimedia Player or All-in-One Controller		
Power (typ. / max.)	150 / 400 W/m²	137 / 293 W/m²	125 / 280 W/m²