

INDOOR LED DISPLAY

ASTRA SERIES



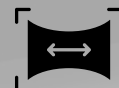
High
Resolution



Seamless
Display



High Refresh
Rate



Wide Viewing
Angle

TECHNOLOGY

SMD (SURFACE MOUNTED DEVICE)

The **Astra Series** is built on advanced **SMD (Surface-Mounted Device)** technology, where tiny LED chips are directly mounted onto the surface of a circuit board. This allows each LED to combine red, green, and blue (RGB) in a single compact unit, delivering vibrant colors and excellent uniformity. Designed for wider viewing angles and sharp clarity, the **Astra Series** ensures a seamless and immersive visual experience, even at close viewing distances.

SMD Technology (Surface-Mounted Device)

SMD (Surface-Mounted Device)



Tiny RGB LEDs combining red, green & blue are mounted directly onto the PCB

Tiny RGB LEDs combining red, green & blue are mounted directly onto the PCB board.

GOB (Glue-On-Board)

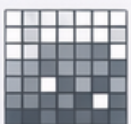
Durable clear epoxy coating protects SMD LEDs from moisture, dust, and physical damage.



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FEATURES OF SMD TECHNOLOGY

Key Benefits



High Resolution



Better Color Mixing



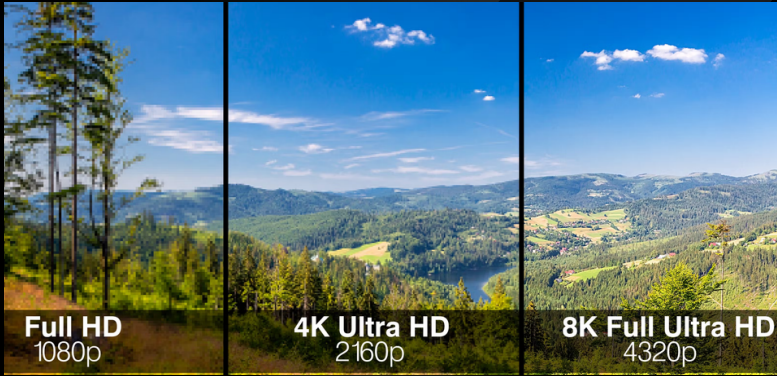
Wide Viewing Angle



Seamless Display

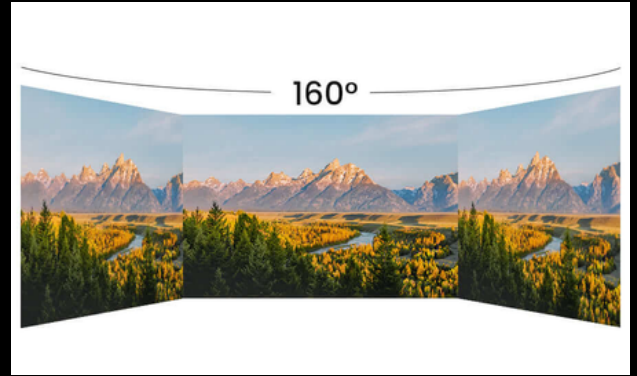
SMD LEDs combine Red, Green & Blue in one compact unit mounted directly on a PCB.

KEY FEATURES



High Resolution

Delivers crisp, detailed visuals for close viewing without pixelation. Ensures clear text and sharp imagery for indoor environments.



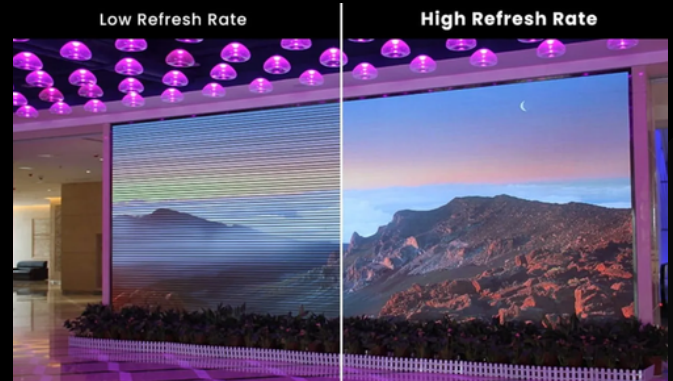
Wide Viewing Angle

Maintains consistent brightness and color from every direction. Ensures a uniform viewing experience across the entire space.



Seamless Display

Creates a continuous, bezel-free visual surface. Enhances immersion with a clean and uniform screen appearance.



High Refresh Rate

High refresh rates deliver smooth, crisp motion without any flickering. They are absolutely perfect for busy sports arenas, live events, and bold outdoor advertising.



High Color Accuracy

Delivers rich, true-to-life colors with excellent consistency. Enhances visual appeal for branding and content display.



Energy Efficient

Optimized for lower power consumption without compromising performance. Ensures cost-effective and sustainable operation.

APPLICATIONS



TECHNICAL SPECIFICATIONS

Astra Prime Series			
Prime-I			
S.No.	Parameters	P1.8	P2.5
1	Pixel Pitch (mm)	1.86	2.5
2	Pixel Density (sqm)	284,444	160,000
3	Module Size (mm)	300 x 168.75	320 x 160
4	Cabinet Size (mm)	600 x 337.5	640 x 480
5	Cabinet Weight (kg)	6.5	7.5
6	Viewing Angle (H/V)	160/160	160/160
7	Brightness (cd/sqm)	1000	1200
8	Color Depth	16 Bit	16 Bit
9	Refresh Rate (Hz)	≥7680	≥7680
10	Voltage	220v	220v
11	Avg. Power Consumption (W)	225	275
12	Max Power Consumption (W)	550	600
13	Service Excess	Front	Front
14	IP Grade Front/Rear	31/31	31/31
15	Operating Temperature (-/+)	0°C~+50°C	0°C~+50°C
16	Operating Humidity	0-50%	0-50%
17	Life Time (hrs)	1	100,000
18	MTBF (hrs)	10,000	10,000
19	LED Chip	Nation star Gold Bond	Nation star Gold Bond
20	PCB	6 Layer	6 Layer
21	Driver IC	MBI/ICN/TI	MBI/ICN/TI
22	Power Supply	Meanwell	Meanwell
23	Controller	Nova	Nova
24	Cabinet Material	Die Cast	Die Cast

Note: Specifications and product information are subject to change without prior notice due to ongoing innovation and development. For the most up-to-date details, please visit www.orion-led.com.

TECHNICAL SPECIFICATIONS

Astra Edge Series

Edge-I

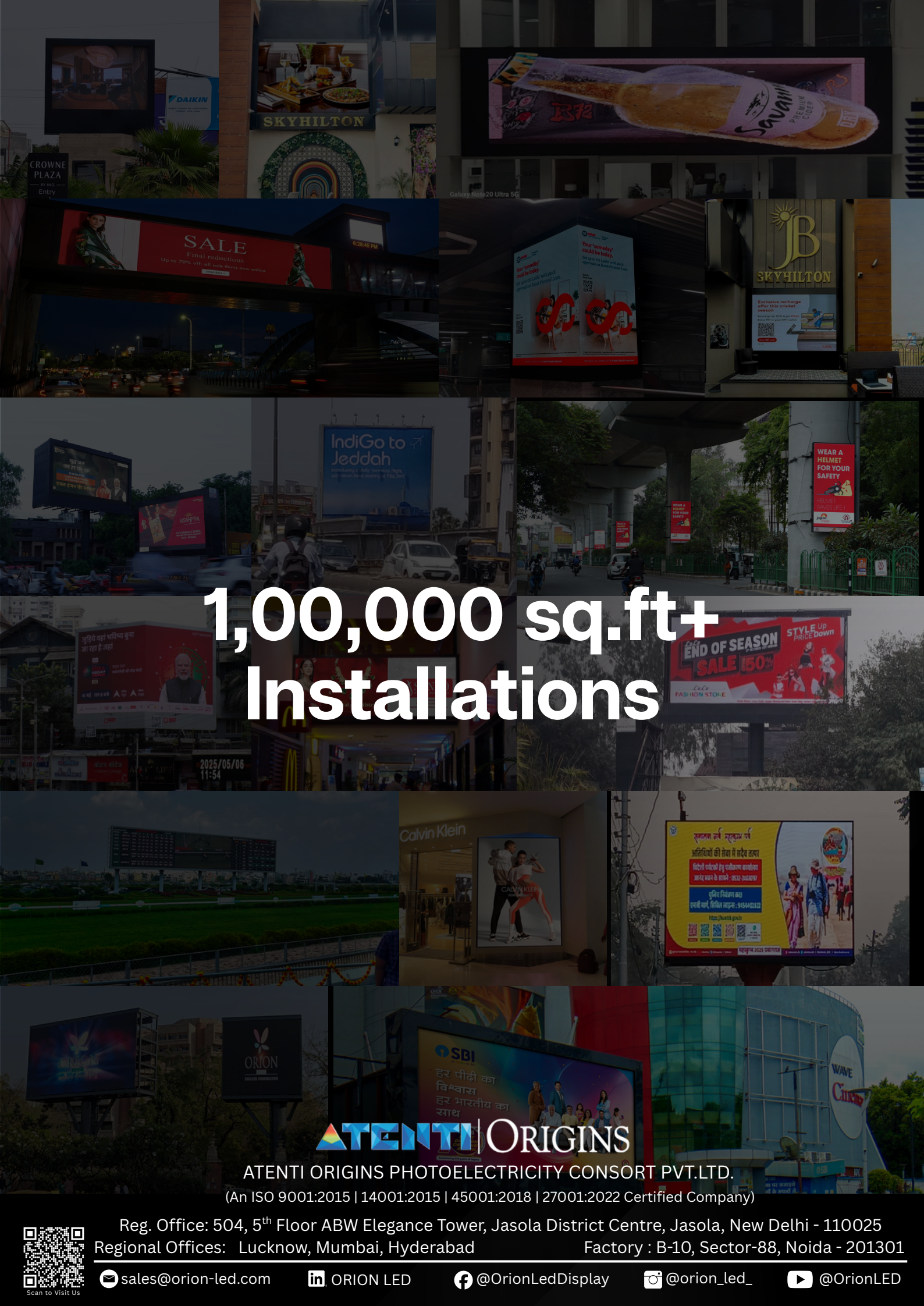
S.No.	Parameters	P1.25	P1.5	P1.8	P2.5
1	Pixel Pitch (mm)	1.25	1.5	1.86	2.5
2	Pixel Density (sqm)	640,000	444,000	284,444	160,000
3	Module Size (mm)	320 x 160	320 x 160	320 x 160	320 x 160
4	Cabinet Size (mm)	640 x 480 / 600 x 337.5	640 x 480 / 600 x 337.5	640 x 480 / 600 x 337.5	640 x 480
5	Cabinet Weight (kg)	8	8	8	8
6	Viewing Angle (H/V)	160/140	160/140	160/140	160/140
7	Brightness (cd/sqm)	800	800	800	1000
8	Color Depth	14 bit	14 bit	14 bit	14 bit
9	Refresh Rate (Hz)	≥3840	≥3840	≥3840	≥3840
10	Voltage	220v	220v	220v	220v
11	Avg. Power Consumption (W)	225	225	225	225
12	Max Power Consumption (W)	650	650	650	650
13	Service Excess	Front	Front	Front	Front
14	IP Grade Front/Rear	31/31	31/31	31/31	31/31
15	Operating Temperature (-/+)	0°C~+50°C	0°C~+50°C	0°C~+50°C	0°C~+50°C
16	Operating Humidity	0-50%	0-50%	0-50%	0-50%
17	Life Time (hrs)	100,000	100,000	100,000	100,000
18	MTBF (hrs)	5,000	5,000	5,000	5,000
19	LED Chip	Nationstar Copper	Nationstar Copper	Nationstar Copper	Nationstar Copper
20	PCB	4 layer	4 layer	4 layer	4 layer
21	Driver IC	ICN/MBI	ICN/MBI	ICN/MBI	ICN/MBI
22	Power Supply	Chuangliang	Chuangliang	Chuangliang	Chuangliang
23	Controller	Nova	Nova	Nova	Nova
24	Cabinet Material	Die Cast	Die Cast	Die Cast	Die Cast

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TECHNICAL SPECIFICATIONS

Astra Core Series					
Core-I					
S.No.	Parameters	P1.25	P1.5	P1.8	P2.5
1	Pixel Pitch (mm)	1.25	1.5	1.86	2.5
2	Pixel Density (sqm)	640,000	444,000	284,444	160,000
3	Module Size (mm)	320 x 160	320 x 160	320 x 160	320 x 160
4	Cabinet Size (mm)	640 x 480	640 x 480	640 x 480	640 x 480
5	Cabinet Weight (kg)	8	8	8	8
6	Viewing Angle (H/V)	140/140	140/140	140/140	140/140
7	Brightness (cd/sqm)	800	800	800	900
8	Color Depth	14 Bit	14 Bit	14 Bit	14 Bit
9	Refresh Rate (Hz)	3840	3840	3840	3840
10	Voltage	220v	220v	220v	220v
11	Avg. Power Consumption (W)	225	225	225	350
12	Max Power Consumption (W)	650	650	650	650
13	Service Excess	Front	Front	Front	Front
14	IP Grade Front/Rear	31/31	31/31	31/31	31/31
15	Operating Temperature (-/+)	0°C~+50°C	0°C~+50°C	0°C~+50°C	0°C~+50°C
16	Operating Humidity	0-50%	0-50%	0-50%	0-50%
17	Life Time (hrs)	50,000	50,000	50,000	50,000
18	MTBF (hrs)	5,000	5,000	5,000	5,000
19	LED Chip	Atenti SMD	Atenti SMD	Atenti SMD	Atenti SMD
20	PCB	2 layer	2 layer	2 layer	2 layer
21	Driver IC	ICN/SM/DP	ICN/SM/DP	ICN/SM/DP	ICN/SM/DP
22	Power Supply	Chuangliang / Rong	Chuangliang / Rong	Chuangliang / Rong	Rong
23	Controller	Nova	Nova	Nova	Nova
24	Cabinet Material	Die- Cast	Die- Cast	Die- Cast	Die- Cast

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1,00,000 sq.ft+
Installations

ATENTI | ORIGINS

ATENTI ORIGINS PHOTOELECTRICITY CONSORT PVT.LTD.

(An ISO 9001:2015 | 14001:2015 | 45001:2018 | 27001:2022 Certified Company)

Reg. Office: 504, 5th Floor ABW Elegance Tower, Jasola District Centre, Jasola, New Delhi - 110025
Regional Offices: Lucknow, Mumbai, Hyderabad
Factory : B-10, Sector-88, Noida - 201301

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