

OUTDOOR LED DISPLAY

ASTRA SERIES



High
Brightness



Weather
Protection



High Refresh
Rate



Lightweight
Design

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)

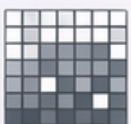
Durable clear epoxy coating protects SMD LEDs from moisture, dust, and physical damage.



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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



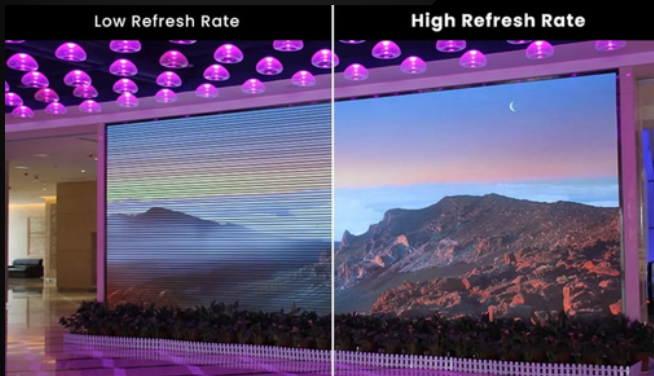
High Brightness

High-brightness LED displays cut through harsh sunlight and weather, keeping images sharp and readable from afar, making it ideal for billboards, busy transit hubs, and large outdoor advertising setups.



Weather Protection

Built with a tough IP65 rating, these outdoor LED screens reliably power through heavy rain, dust, and harsh weather. They are a perfect fit for busy public spaces and rugged outdoor advertising.



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.



Lightweight Design

Lightweight outdoor LED screens make installation simple, cutting structural weight without sacrificing toughness. They are perfect for billboards, facades, and rentals.



Energy Efficiency

Energy-efficient outdoor LED displays reduce power consumption while maintaining high brightness and performance, ensuring cost-effective and sustainable operation.



Rugged Construction

Built with sturdy materials, including aluminum cabinets, rugged outdoor LED displays offer enhanced durability against impact and harsh conditions. Ideal for highways, stadiums, and high-exposure outdoor environments.

APPLICATIONS



Retail Outdoor



Transportation Hub



Digital Out of Home



Creative Advertising



Sports Arenas

TECHNICAL SPECIFICATIONS

Astra Prime Series						
Prime-O						
S.No.	Parameters	P2.5	P3	P4	P6.6	P10
1	Pixel Pitch (mm)	2.5	3	4	6.6	10
2	Pixel Density (sqm)	160,000	111000	62500	23104	10,000
3	Module Size (mm)	320X160	192x192	320X160	320X160	320 x 160
4	Cabinet Size (mm)	960 x 960	768x768	960 x 960	960 x 960	960X960
5	Cabinet Weight (kg)	27	16	27	27	27
6	Viewing Angle (H/V)	160/160	160/160	160/160	Customised	Customised
7	Brightness (cd/sqm)	6,000	6,500	6,500	8,000	8500
8	Color Depth	16 Bit	16 Bit	16 Bit	16 Bit	16 Bit
9	Refresh Rate (Hz)	≥7680	≥7680	≥7680	≥7680	≥7680
10	Voltage	220v	220v	220v	220v	220v
11	Avg. Power Consumption (W)	300	200	300	300	225
12	Max Power Consumption (W)	600	450	650	650	650
13	Service Excess	Rear	Rear	Rear	Rear	Rear
14	IP Grade Front/Rear	65/54	65/54	65/54	65/54	65/54
15	Operating Temperature (-/+)	-10°C~+65°C	-10°C~+65°C	-10°C~+65°C	-10°C~+65°C	-10°C~+65°C
16	Operating Humidity	0-99%	0-99%	0-99%	0-99%	0-99%
17	Life Time (hrs)	100,000	100,000	100,000	100,000	100,000
18	MTBF (hrs)	10,000	10,000	10,000	10,000	10,000
19	LED Chip	Nation star Gold Bond	Nation star Gold Bond	Nation star Gold Bond	Nation star Gold Bond	Nation star Gold Bond
20	PCB	6 Layer	6 Layer	6 Layer	6 Layer	6 Layer
21	Driver IC	MBI/ICN/TI	MBI/ICN/TI	MBI/ICN/TI	MBI/ICN/TI	MBI/ICN/TI
22	Power Supply	Meanwell	Meanwell	Meanwell	Meanwell	Meanwell
23	Controller	Nova	Nova	Nova	Nova	Nova
24	Cabinet Material	Die Cast	Die Cast	Die Cast	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

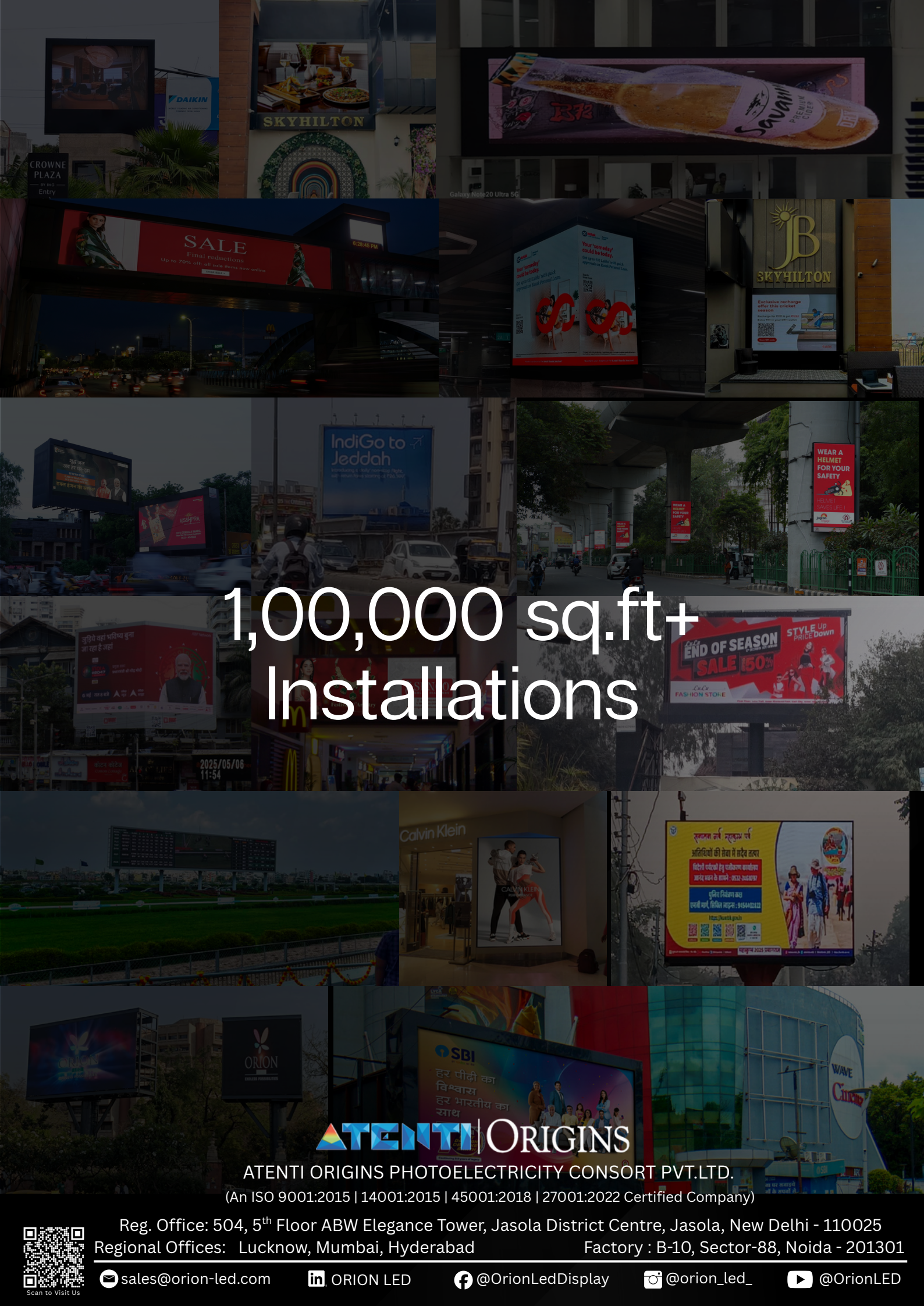
Astra Edge Series						
Edge-O						
S.No.	Parameters	P2.5	P3	P4	P6.6	P10
1	Pixel Pitch (mm)	2.5	3	4	6.6	10
2	Pixel Density (sqm)	160,000	111000	62500	23104	10,000
3	Module Size (mm)	320X160	192x192	320X160	320X160	320 x 160
4	Cabinet Size (mm)	960 x 960	768x768	960 x 960	960 x 960	960X960
5	Cabinet Weight (kg)	27	16	27	27	27
6	Viewing Angle (H/V)	140/140	140/140	140/140	140/140	140/140
7	Brightness (cd/sqm)	5,000	5,500	5,500	5,500	6000
8	Color Depth	14 bit	14 bit	14 bit	14 bit	14 bit
9	Refresh Rate (Hz)	3840	3840	3840	3840	3840
10	Voltage	220v	220v	220v	220v	220v
11	Avg. Power Consumption (W)	300	200	300	300	225
12	Max Power Consumption (W)	700	450	700	700	650
13	Service Excess	Rear	Rear	Rear	Rear	Rear
14	IP Grade Front/Rear	65/54	65/54	65/54	65/54	65/54
15	Operating Temperature (-/+)	-10°C~+65°C	-10°C~+65°C	-10°C~+65°C	-10°C~+65°C	-10°C~+65°C
16	Operating Humidity	0-99%	0-99%	0-99%	0-99%	0-99%
17	Life Time (hrs)	100,000	100,000	100,000	100,000	100,000
18	MTBF (hrs)	5,000	5,000	5,000	5,000	5,000
19	LED Chip	Nationstar Copper	Nationstar Copper	Nationstar Copper	Nationstar Copper	Nationstar Copper
20	PCB	4 layer	4 layer	4 layer	4 layer	4 layer
21	Driver IC	ICN/MBI	ICN/MBI	ICN/MBI	ICN/MBI	ICN/MBI
22	Power Supply	Chuangliang	Chuangliang	Chuangliang	Chuangliang	Chuangliang
23	Controller	Nova	Nova	Nova	Nova	Nova
24	Cabinet Material	Die Cast	Die Cast	Die Cast	Die Cast	Die Cast

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TECHNICAL SPECIFICATIONS

Astra Core Series						
Core-O						
S.No.	Parameters	P2.5	P3	P4	P6.6	P10
1	Pixel Pitch (mm)	2.5	3	4	6.6	10
2	Pixel Density (sqm)	160,000	111000	62500	23104	10,000
3	Module Size (mm)	320X160	192x192	320X160	320X160	320 x 160
4	Cabinet Size (mm)	960 x 960	768x768	960 x 960	960 x 960	960X960
5	Cabinet Weight (kg)	27	16	27	27	27
6	Viewing Angle (H/V)	140/140	140/140	140/140	140/140	140/140
7	Brightness (cd/sqm)	4,000	4,500	5,000	5,500	5500
8	Color Depth	14 Bit	14 Bit	14 Bit	14 Bit	14 Bit
9	Refresh Rate (Hz)	3840	3840	3840	3840	3840
10	Voltage	220v	220v	220v	220v	220v
11	Avg. Power Consumption (W)	350	250	400	400	350
12	Max Power Consumption (W)	700	450	700	700	750
13	Service Excess	Rear	Rear	Rear	Rear	Rear
14	IP Grade Front/Rear	65/54	65/54	65/54	65/54	65/54
15	Operating Temperature (-/+)	-10°C~+65°C	-10°C~+65°C	-10°C~+65°C	-10°C~+65°C	-10°C~+65°C
16	Operating Humidity	0-99%	0-99%	0-99%	0-99%	0-99%
17	Life Time (hrs)	50,000	50,000	50,000	50,000	50,000
18	MTBF (hrs)	5,000	5,000	5,000	5,000	5,000
19	LED Chip	Atenti SMD	Atenti SMD	Atenti SMD	Atenti SMD	Atenti SMD
20	PCB	2 layer	2 layer	2 layer	2 layer	2 layer
21	Driver IC	ICN/SM/DP	ICN/SM/DP	ICN/SM/DP	ICN/SM/DP	ICN/SM/DP
22	Power Supply	Rong	Rong	Rong	Rong	Rong
23	Controller	Nova	Nova	Nova	Nova	Nova
24	Cabinet Material	Die- Cast	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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