



Akari Apex

FULL FLIP CHIP INDOOR FINE PITCH FIXED LED DISPLAY

- Available in 0.6, 0.7, 0.9, 1.2, 1.5, and 1.8 mm pixel pitches
- Flip-chip common-cathode architecture for superior energy efficiency and lower power costs
- Ultra-slim 28 mm cabinet depth delivers a sleek, wall-hugging profile ideal for modern interiors and ADA-compliant installations
- High-durability design: moisture-proof, dust-resistant, antistatic, and impact-resistant
- Lightweight construction lowers handling effort and installation labor costs



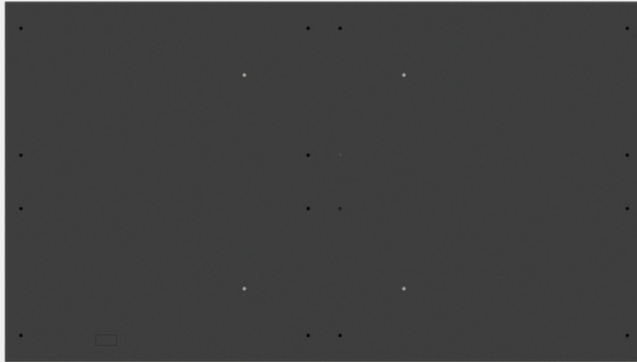
AKARI VISION

www.akarivision.com

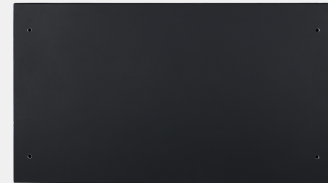


Two Cabinet Sizes Available

Akari Apex is available in two precision-machined cabinet sizes: **Standard (27.1" diagonal)** and **Large (54.2" diagonal)**. Both feature the same slim 28 mm profile and seamless COB surface finish. The larger cabinet minimizes alignment points, streamlining installation and reducing setup time—ideal for large-scale or high-volume wall assemblies.



Large 54.2"
1200 x 675 x 28 mm



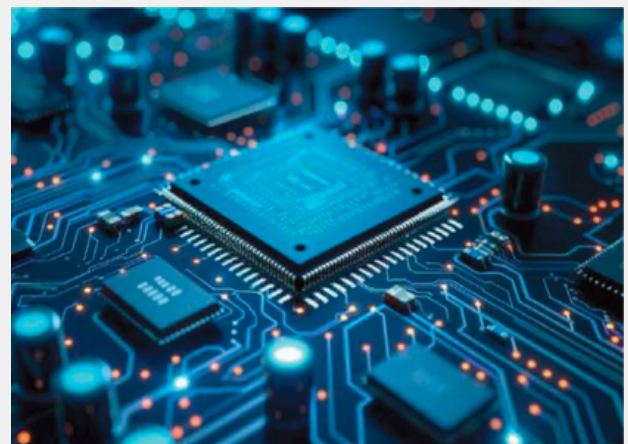
Standard 27.1"
600 x 337.5 x 28 mm

Precision Power and Color Control

Akari Apex uses an advanced **common-cathode PWM driver IC** that optimizes power efficiency while maintaining exceptional image consistency.

Smart current control and 3-nanosecond calibration deliver smooth low-gray detail, true-to-life gradients, and vibrant color accuracy up to **22-bit processing depth**.

Compared with conventional designs, Akari Apex uses large-channel IC architecture—reducing chip count, lowering heat generation, and enhancing long-term reliability and stability.

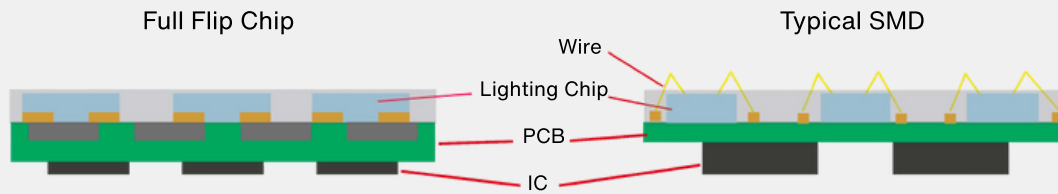


Full Flip Chip COB

Akari Apex features a **true flip-chip COB architecture**, delivering higher brightness, superior heat dissipation, and a wider 170° viewing angle.

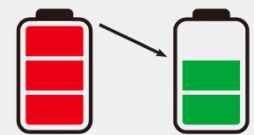
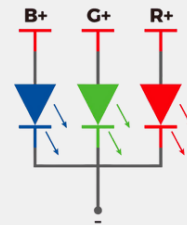
By eliminating fragile bonding wires, reliability is greatly increased, reducing failure rates and ensuring consistent long-term performance.

The LED chips bond directly to the PCB, maximizing thermal efficiency and maintaining stable color uniformity over time.



Common Cathode Design

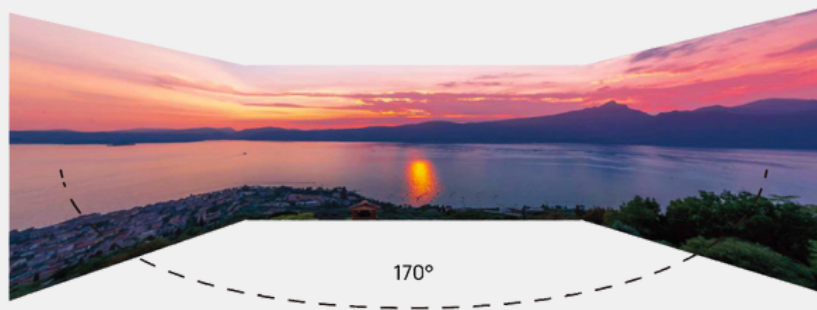
Akari Apex uses a common-cathode architecture that minimizes heat generation and keeps operating temperatures low. The result is a more stable display, improved energy efficiency, and extended product lifespan.



30% Less Power

Wider Viewing Angles

The flip-chip COB design delivers an ultra-wide 170° horizontal and vertical viewing angle, ensuring consistent brightness and color from virtually any position in the room.



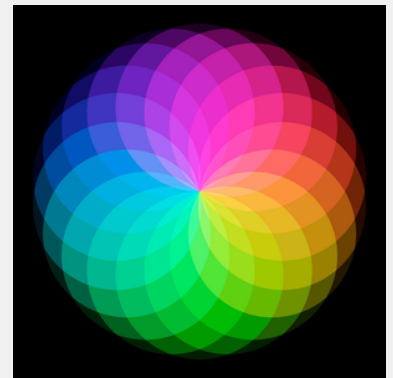
Ultra-High Contrast Ratio

With a **15,000:1 contrast ratio**, Akari Apex produces deep blacks, vibrant highlights, and striking visual depth—delivering a cinematic image that feels rich and lifelike in any lighting environment.



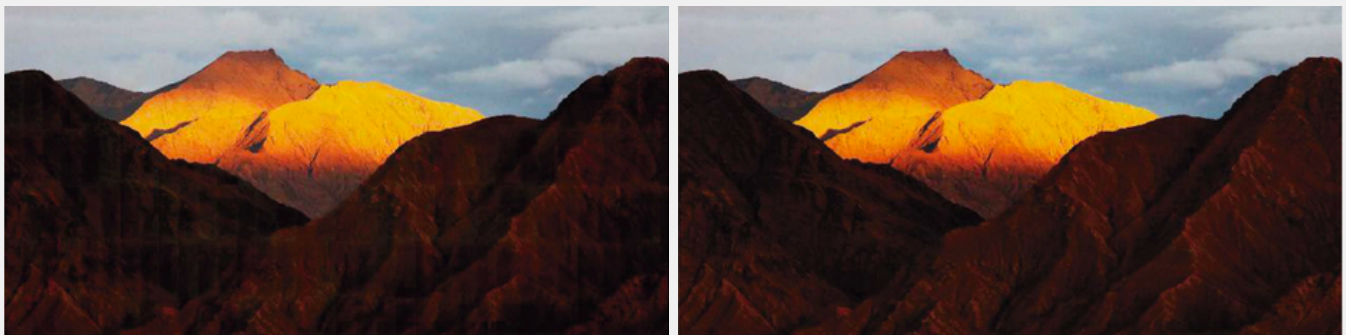
Wide Color Gamut

Akari Apex supports up to 97% of the DCI-P3 color gamut (factory-calibrated option), reproducing a broader spectrum of colors with remarkable accuracy for true cinematic quality.



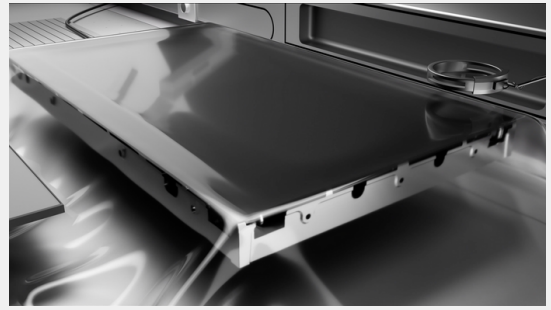
Multi-Layer Grayscale Calibration

Each Akari Apex display is factory-calibrated at multiple brightness levels to ensure consistent color and tonal accuracy across the entire screen. The result is smooth gradation and uniform imagery—whether viewed at full brightness or in low-light environments.



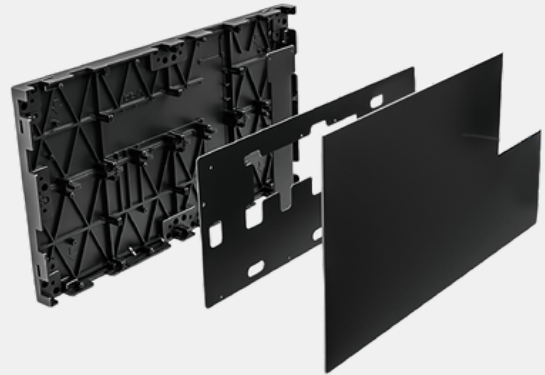
COB Package Protection

Each Akari Apex module is built for durability and long-term reliability. The COB surface is **sealed against moisture, dust, static, and oxidation**, while its rugged encapsulation provides **impact resistance** during handling and installation.



Lightweight Design

Engineered with a precision die-cast aluminum frame, Akari Apex offers exceptional strength at a fraction of the weight. The lightweight design simplifies handling, shortens installation time, and reduces overall labor costs.



90° Splicing Options

Akari Apex cabinets can be precision-cut with a 45° beveled edge, allowing for seamless right-angle and corner installations. This flexibility enables creative wall designs, column wraps, and immersive display environments without visible gaps.



Ultra-Slim Profile

When mounted with its ultra-low-profile bracket, Akari Apex maintains a total wall depth of **just over 1 ¾ inches**, meeting ADA requirements while preserving a clean, architectural aesthetic.



High Brightness Option

For environments with strong ambient light, Akari Apex offers an optional **3000-nit high-brightness COB** configuration. It's ideal for semi-outdoor spaces such as retail windows, covered walkways, or transit corridors.

Designed for protected environments, this version is not intended for direct exposure to rain or water.



Standard Cabinet Size - Specifications

Specification	Akari Apex 0.6	Akari Apex 0.7	Akari Apex 0.9	Akari Apex 1.2	Akari Apex 1.5	Akari Apex 1.8
Pixel Pitch (mm)	0.625	0.78125	0.9375	1.25	1.5625	1.875
Pixel Config.	Flip Chip COB					
Cabinet Size (WxHxD)	600 x 337.5 x 28 mm					
Cabinet Diagonal	27.1 in					
Cabinet Resolution (WxH)	960 x 540	768 x 432	640 x 360	480 x 270	384 x 216	320 x 180
Module Size (WxH)	150 x 168.75 mm		300 x 168.75 mm			
Cabinet Weight	10.58 lbs. / 4.8 kg					
Viewing Angle	170° Horizontal / 170° Vertical					
Surface Treatment	Black Matte					
Brightness (cd/m²)	800-1000					
Brightness Uniformity	>98%					
Contrast	15,000:1					
Refresh Rate	3840-7680 Hz					
Gray Scale	14 ~ 16 bit					
Color Calibration	Pixel to Pixel					
Color Temperature	2000 - 10,000 K					
Color Gamut	>97% DCI-P3 (optional)					
HDR	HLG / HDR / HDR 10+					
Power Input	100 ~ 240 V, 50/60 Hz					
Power Draw / Cabinet (Max.)	60.8 - 91.1 W					
Power Draw / Cabinet (Avg.)	20 - 30.1 W					
Redundancy	Optional					
Serviceability	Front					
Operating Temperature	14°F - 104°F					
Operating Humidity	10% ~ 90% RH					
Ingress Protection	IP40 Front / IP20 Rear					
Lifespan	100,000 hrs.					
Certificates	CE, FCC, CB, ETL					



Larger Cabinet Size - Specifications

Specification	Akari Apex 0.6L	Akari Apex 0.7L	Akari Apex 0.9L	Akari Apex 1.2L	Akari Apex 1.5L	Akari Apex 1.8L
Pixel Pitch (mm)	0.625	0.78125	0.9375	1.25	1.5625	1.875
Pixel Config.	Flip Chip COB					
Cabinet Size (WxHxD)	1200 x 675 x 28 mm					
Cabinet Diagonal	54.2 in					
Cabinet Resolution (WxH)	1920 x 1080	1536 x 864	1280 x 720	960 x 540	768 x 432	640 x 360
Module Size (WxH)	150 x 168.75 mm		300 x 168.75 mm			
Cabinet Weight	41.01 lbs. / 18.6 kg					
Viewing Angle	170° Horizontal / 170° Vertical					
Surface Treatment	Black Matte					
Brightness (cd/m²)	800-1000					
Brightness Uniformity	>98%					
Contrast	15,000:1					
Refresh Rate	3840-7680 Hz					
Gray Scale	14 ~ 16 bit					
Color Calibration	Pixel to Pixel					
Color Temperature	2000 - 10,000 K					
Color Gamut	>97% DCI-P3 (optional)					
HDR	HLG / HDR / HDR 10+					
Power Input	100 ~ 240 V, 50/60 Hz					
Power Draw / Cabinet (Max.)	243.2 - 364.4 W					
Power Draw / Cabinet (Avg.)	80 - 120.4 W					
Redundancy	Optional					
Serviceability	Front					
Operating Temperature	14°F - 104°F					
Operating Humidity	10% ~ 90% RH					
Ingress Protection	IP40 Front / IP20 Rear					
Lifespan	100,000 hrs.					
Certificates	CE, FCC, CB, ETL					



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