

AET Presents

QUANTUM

New Product Based on

AT 55" P0.63 mm - MIP TECHNOLOGY



Standard Size



Standard Resolution



HDMI Interface



High Dynamic Range



Micron-Level
Surface Display



IP65 Rating



DCI-P3



Direct Power Supply



Welcome to the

FUTURE OF LED DISPLAY TECHNOLOGY

At AET Displays Limited, we bring you AET QUANTUM Product based on AT 55" Series with MIP Technology , a revolutionary LED direct display that embodies innovation, standardization, and quality. This brochure will guide you through our AT Series's features, applications, and advantages, showcasing why it stands out in the market.

REVOLUTIONIZING LED DISPLAYS WITH INTERNATIONAL STANDARD SIZES

AET
QUANTUM
MIP SERIES

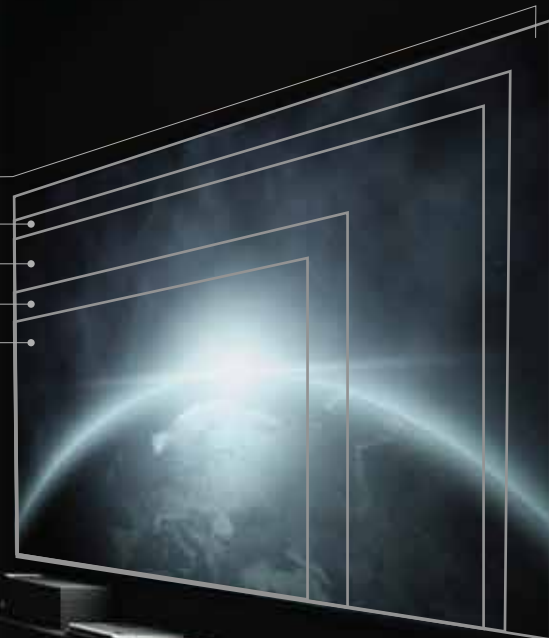
60"

55"

54"

46"

43"



EXPERIENCE UNMATCHED CLARITY WITH AET'S STANDARD RESOLUTION TECHNOLOGY

Our advanced technology seamlessly scales up to achieve breathtaking 4K, 8K, and even 16K+ Ultra High Definition (UHD), delivering crystal-clear images and unparalleled detail.

- **2K Standard Resolution:** Each cabinet delivers sharp, vibrant visuals.
- **Scalable UHD:** Effortlessly achieve 4K, 8K, and beyond for the most demanding applications.
- **Exceptional Clarity:** Provides a superior viewing experience, perfect for large-scale displays and intricate details.

2K

STANDARD RESOLUTION

UHD

SCALABLE

CLARITY

EXCEPTIONAL





EFFORTLESS INTEGRATION WITH AET'S PLUG AND PLAY TECHNOLOGY (STANDARD INTERFACE)

Our standard interfaces allow for direct plug-and-play of standard video sources without the need for a sending box. Featuring HDMI, HDBaseT, Fiber, MPO, and IP ports, our QUANTUM product simplifies the connection process, transforming the way you experience video displays.

- **Plug and Play:** Directly connect standard video sources for immediate use.
- **Simplified Setup:** Eliminate the need for additional equipment like splicers and sending cards.
- **Versatile Ports:** HDMI, HDBaseT, Fiber, MPO, and IP ports for diverse connectivity options.
- **Efficiency and Convenience:** Reduce setup time and enhance usability with our streamlined interface.



HDMI HDbaset Fiber MPO IP



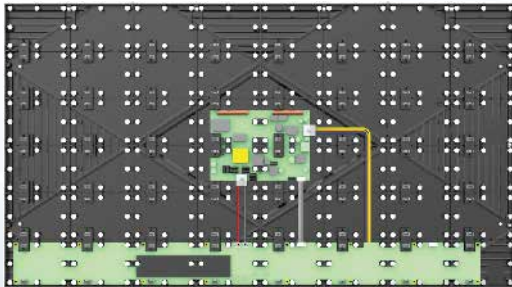
Video Source + Splicer + Sending Box + LED Display

Video Source + AT Series

INNOVATIVE THIRD-GENERATION ARCHITECTURE FOR SUPERIOR PERFORMANCE

Introducing the third-generation 3-in-one architecture, integrating the power supply, receiving card, and HUB board into a single, all-in-one (AIO) unit. This groundbreaking design simplifies installation, enhances reliability, and optimizes performance, setting a new standard in LED display technology.

- **Integrated Design:** Combines power supply, receiving card, and HUB board for a streamlined setup.
- **All-in-One Efficiency:** Reduces complexity and increases reliability with fewer components.
- **Enhanced Performance:** Optimized for superior display quality and operational efficiency.



EFFORTLESS INSTALLATION WITH VESA-COMPATIBLE BRACKETS

Standardized bracket system that complies with the "VESA" bracket standard. Our brackets are compatible with the installation sizes and hole positions of traditional LCD splicing screens, ensuring a hassle-free transition. The modular wall mount design allows for easy expansion, making it perfect for various configurations, including 2*2 wall mounting setups.



- **Universal Compatibility:** Fits traditional LCD splicing screen sizes and hole positions.
- **Modular Design:** Expandable wall mounts adapt to various installation needs.
- **Effortless Setup:** Simplifies installation and ensures a secure fit.



400

400



ULTRA-THIN, ULTRA-LIGHT, ULTRA-STYLISH

Our ultra-thin and lightweight design features one-piece molding and industrial aesthetics, making it a visually appealing addition to any environment. At just 28mm thick and a net weight of **18.5kg**, our displays are easy to install, move, and maintain without compromising on durability or performance.

- **One-Piece Molding:** Seamless design for a modern, sleek look.
- **Industrial Aesthetic:** Enhances the visual appeal of any space.
- **Easy Handling:** Lightweight and slim profile simplify installation and maintenance.
- **Durable Performance:** Engineered for strength and reliability despite the slim design.



18.5kg
Net Weight



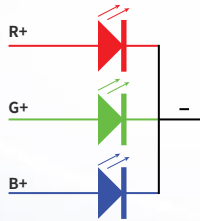
28mm
Thickness



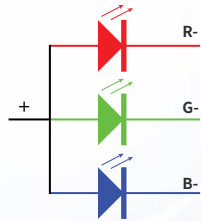
MAXIMIZING PERFORMANCE WITH ENERGY-SAVING TECHNOLOGY

Our innovative common cathode driver connects the cathodes of red, green, and blue primary color lights, allowing the LEDs in the same pixel to share a negative electrode. This efficient design reduces energy usage and enhances the overall efficiency of our displays.

- **Common Cathode Driver:** Reduces power consumption by sharing a negative electrode among LEDs.
- **Integrated Design:** Efficiently connects red, green, and blue LED cathodes.
- **Eco-Friendly:** Lowers energy usage, contributing to a greener environment.



Common Cathode Electric Circuit



Common Anode Electric Circuit



QUANTUM SERIES

SETTING NEW STANDARDS WITH INNOVATIVE FEATURES FOR SUPERIOR PERFORMANCES

SAFE POWER SUPPLY

Supports AC 220V with an AC socket for reliable performance.

SEAMLESS OPERATION

Zero cross lines for uninterrupted display.

PRECISION CALIBRATION

Gamma correction algorithm for uniform brightness and color fidelity.

COMFORTABLE VIEWING

Black crystal technology reduces glare and blue light.

AUTOMOBILE-GRADE CONNECTORS

Adjustable in six directions for optimal screen flatness and efficiency.

ZERO CROSS LINES

Seamless display without visible cross lines.

FRONT MAINTENANCE

Easy front installation and maintenance, hot-swap capability for minimal downtime.

SURFACE LIGHT SOURCE

Exclusive black crystal technology with ultra-low blue light, ensuring eye comfort.

EASY MAINTENANCE

Hot-swap installation for convenient maintenance in tight spaces.



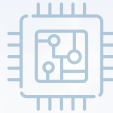
AT SERIES COMES WITH CUTTING-EDGE TECHNOLOGIES

MIP TECHNOLOGY

Advanced technology where Micro LEDs and discrete devices are combined into a single package.

QCOB TECHNOLOGY

High-temperature coating packaging for durability and environmental resistance.



DCI-P3 CINEMATIC COLOR GAMUT (OPTIONAL)

Supports DCI-P3 cinema-level color gamut, the color gamut overlap is $\geq 97.85\%$ at the brightness of 48nit; Color gamut overlap is 100% at the brightness of 300nit.

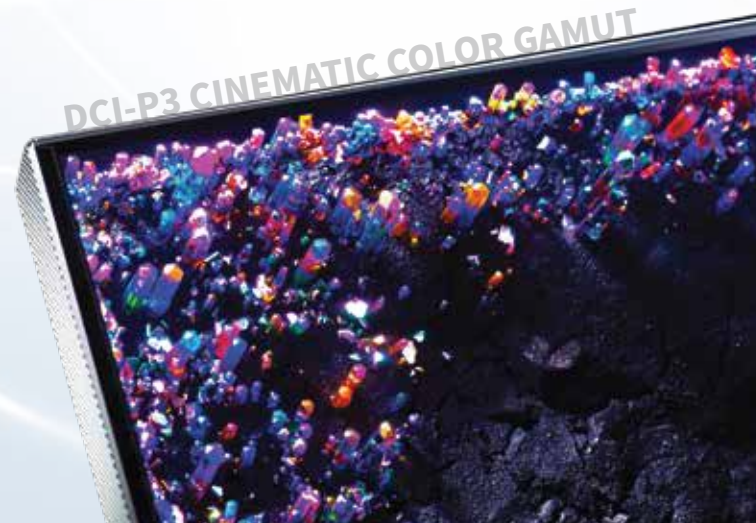


COB TECHNOLOGY

Technology involves directly mounting LED chips onto a substrate to form a single module.

DCP TECHNOLOGY (OPTIONAL)

High-brightness and high-gray calibration, offering high gray calibration at ultra-low brightness of 0.08nits; The first level gray emission can reach 0.001NIT, which enables the quality of images.



SPECIFICATION

| Model | AT 43" QCOB | AT 46" QCOB | AT 55" QCOB | | AT 55" High Brightness | AT 55" COB | QUANTUM Series AT 55" MIP | AT 60" QCOB |
|--|----------------|---------------------|-------------------|----------------|---------------------------|-------------------|------------------------------|-----------------|
| LED Type | AET Panel | | | | | AET COB Panel | AET MIP Panel | AET Panel |
| Drive | Common Anode | | Common Anode | Common Cathode | Common Anode | Common Cathode | Common Cathode | Common Cathode |
| Pixel Pitch (mm) | 1.49 | 1.06 | 1.26 | | 1.89 | 1.26 | 0.63 | 1.39 |
| Cabinet Dimension (W*H*D,mm) | 960*540*27.2 | 1020.02*573.76*28.8 | 1209.6*680.4*28.4 | | 1209.6*680.4*28.4 | 1209.6*680.4*28.4 | 1209.6*680.4*33.9 | 1336*754.2*28.8 |
| Cabinet Resolution(W*H) | 640*360 | 960*540 | 960*540 | | 640*360 | 640*360 | 1920*1080 | 960*540 |
| Cabinet Area(m ²) | 0.5184 | 0.5852 | 0.823 | | 0.823 | 0.823 | 0.823 | 1.008 |
| Weight (KG/Cabinet) | ≤11 | ≤15.5 | ≤18.5 | | ≤18.5 | ≤18.5 | ≤18.5 | ≤20 |
| IP Rating | ≥IP5X | ≥IP5X | ≥IP5X | | ≥IP5X | ≥IP5X | ≥IP5X | ≥IP5X |
| Brightness(nit) | 450 | 450 | 450 | | 2500 | 450 | 450 | 450 |
| Viewing Angle(H/V,°) | ≥160 | ≥160 | ≥160 | | ≥160 | ≥160 | ≥160 | ≥160 |
| Max Contrast Ratio | ≥7000:1 | ≥7000:1 | ≥7000:1 | | ≥7000:1 | ≥7000:1 | ≥7000:1 | ≥7000:1 |
| Refresh Rate(Hz) | ≥3840 | ≥3840 | ≥3840 | | ≥3840 | ≥3840 | ≥3840 | ≥3840 |
| Max/AVG Power Consumption(W/m ²) | ≤650/≤150 | ≤500/≤120 | ≤500/≤170 | ≤400/≤140 | ≤680/≤230 | ≤680/≤230 | ≤260/≤88 | ≤250/≤120 |
| Servicing | Front | Front | Front | | Front | Front | Front | Front |
| Operating/Storage Temp(°C) | -10—45/-20—60 | -10—45/-20—60 | -10—45/-20—60 | | -10—45/-20—60 | -10—45/-20—60 | -10—45/-40—80 | -10—45/-20—60 |
| Operating/Storage Humidity(RH) | 10%~90% | 10%~90% | 10%~90% | | 10%~90% | 10%~90% | 10%~80% / 30%~60% | 10%~90% |
| Color Depth(bit) | 14~18 | 14~18 | 14~18 | | 14~18 | 14~18 | 14~18 | 14~18 |

APPLICATIONS



COMMAND & CONTROL CENTER



CORPORATE BOARD ROOMS



AIRPORTS



EDUCATIONAL INSTITUTIONS



GOVERNMENT & PSU' S



RESIDENTIAL HOME THEATRE



RETAIL



Официальный дистрибьютор АЕТ

Россия: +7 495 640 75 57 | office@h-t.media
Беларусь: +375 29 383 6000 | belarus@h-t.media
www.h-t.media



AET DISPLAYS LIMITED

www.aetdisplays.com