

2026

Direct Drive Transparent Display

# VAST SERIES



Shenzhen KMTEKLED Photoelectricity Co.,LTD  
[www.kmtekled.com](http://www.kmtekled.com)

# DIRECT DRIVE TRANSPARENT DISPLAY

I . Hanging Model:H03D

## 1.1 PRODUCT INTRODUCTION

### a / SELF-DEVELOPED IC, TRANSPARENT DISPLAY

KMT's driver IC, specially designed for transparent displays, measures just  $1.4 \times 1.4 \times 0.5$  mm, and is fully hidden behind the PCB board, enabling ultra-high transparency with no visible black spots, while supporting high refresh rates and high brightness.

### b / LED DRIVER-IC SEPARATION, HOLO TRANSPARENT COOL DISPLAY

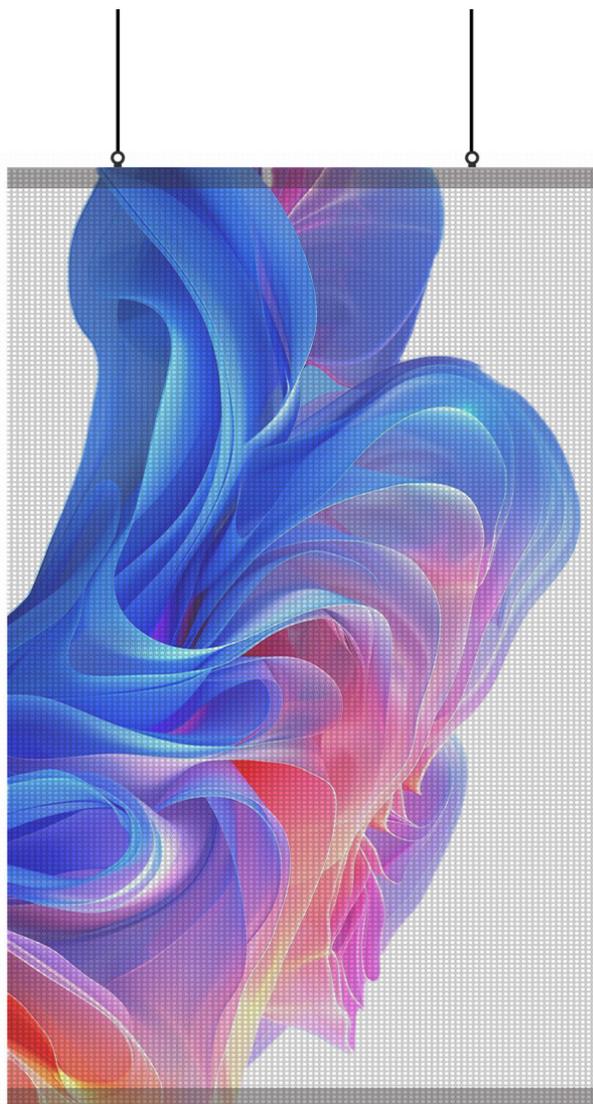
Adopts an optimized LED Driver-IC Separation design, with externally mounted and evenly distributed chips to deliver excellent heat dissipation. This fundamentally ensures color accuracy without color shift and provides more stable operation. Even during long-term continuous use, the screen temperature remains within a comfortable, touch-safe range.

### c / UNLIMITED WIDTH AND HEIGHT, SEAMLESS CURVED EXPANSION

The modules support unlimited horizontal and vertical expansion with high-precision splicing. Seamless connections between cabinets ensure a flat, uniform, and visually consistent large-scale display. In addition, the screen supports  $\pm 15^\circ$  curved expansion, further enhancing flexibility and scalability for diverse display applications.

### d / HARD CONNECTION, EASY REPAIR

This product adopts a hard connection design, ensuring every component is securely fixed to enhance overall structural strength and reliability. Featuring LED Driver-IC Separation design, maintenance is extremely simple: when an IC is damaged, only the IC needs to be replaced; when an LED fails, only the LED requires replacement—no complex operations involved. This enables efficient and convenient after-sales service while significantly improving overall reliability and extending the product's service life.



Low Temp  
High Brightness



Self-developed IC



Ultimate Heat  
Dissipation

## 1.2 PRODUCT PARAMETER

Product Model		H03D -P2.6	H03D -P3.91	H03D -P6.25
Pixel Pitch		2.6 mm	3.91 mm	6.25 mm
LED Type		SMD1415	SMD1415	SMD1921
Cabinet Dimensions (W*H*T)	Hx-100	/	750 ×1000 ×38 mm	/
	Hx-120	/	750 ×1200 ×38 mm	/
	Hx-150	500 × 1500 ×38 mm	750 ×1500 ×38 mm	
Cabinet Resolution	Hx-100	/	192 ×256 pixels	/
	Hx-120	/	192 ×308 pixels	/
	Hx-150	192 × 576 pixels	192 ×384 pixels	120 ×240 pixels
Module Dimension	Hx-100	/	250 ×1000 mm	/
	Hx-120	/	250 ×1200 mm	/
	Hx-150	250 ×1500 mm		
Module Resolution	Hx-100	/	64 ×256 pixels	/
	Hx-120	/	64 ×308 pixels	/
	Hx-150	96 ×576 pixels	64 ×384 pixels	40 ×240 pixels
Physical Transparency		20%	35%	32%
Brightness		≤ 3500 nits		≤ 3200 nits
Weight		5.2 kg		
Refresh Rate		3840~7680Hz		
Color Temperature		3000~10000 K		
Protection Rating		IP40		
Max. Power Consumption		350 W/m <sup>2</sup>		
Avg. Power Consumption		140 W/m <sup>2</sup>		
Input Voltage		AC 90~240 V		
Operating Temperature & Humidity		-20~50 °C, 0~80%		
Cabinet Material		Aluminum		
Installation Method		Floor-standing、Hanging、Mounting		
Control Card System		Novastar,Colorlight,Syslution,Moocell		
Warranty		12 Months		

# DIRECT DRIVE TRANSPARENT DISPLAY

I . Hanging Model:H03D

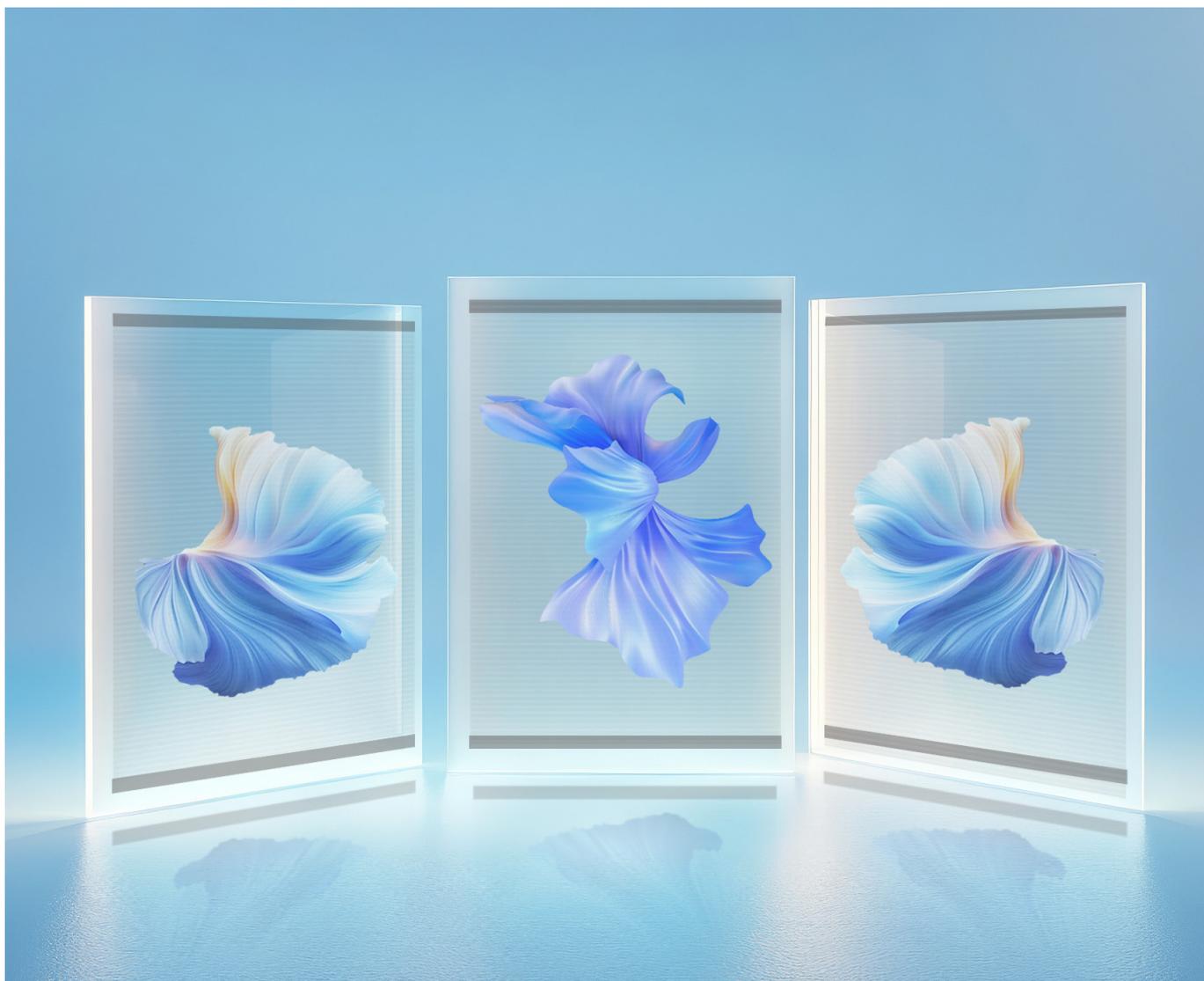
## 1.3 SINGLE-UNIT HANGING INSTALLATION



# DIRECT DRIVE TRANSPARENT DISPLAY

I . Hanging Model:H03D

## 1.4 GLASS MOUNTING



# DIRECT DRIVE TRANSPARENT DISPLAY

I . Hanging Model:H03D

1.5 SUPPORTS  $\pm 15^\circ$  CURVED SPLICING INSTALLATION



# DIRECT DRIVE TRANSPARENT DISPLAY

I . Hanging Model:H03D

## 1.6 ULTRA-LARGE SEAMLESS INSTALLATION



# DIRECT DRIVE TRANSPARENT DISPLAY

## II . Poster Machine Model:H05C

### 2.1 PRODUCT INTRODUCTION

#### a / SELF-DEVELOPED IC, LED DRIVER-IC SEPARATION

Adopting an LED Driver-IC Separation design, a self-developed  $1.4 \times 1.4 \times 0.5$  mm chip is externally mounted on the back of PCB, and is physically isolated from the LED lamps. An independent thermal isolation layer delivers excellent electromagnetic compatibility (EMC), with low radiation and balanced, efficient heat dissipation.

#### b / HIGH BRIGHTNESS & HIGH REFRESH, COOL DISPLAY & LONG LIFESPAN

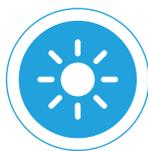
Ultra-high brightness of over 3500 nits, the display remains crisp and sharp even under strong ambient light. Featuring a high refresh rate of 3840–7680 Hz, dynamic content is rendered smoothly without trailing or ghosting. Thanks to advanced cool-display technology, the screen operates at a low and stable temperature, ensuring long service life and reliable performance. Colors are accurately reproduced, and high transparency delivers a true-to-life visual experience.

#### C / VERSATILE INSTALLATION, RELIABLE STRUCTURAL STABILITY

The display supports ceiling mounting, seamless splicing and floor standing installations, allowing flexible deployment across various scenarios. Its bottom-assembled design enables quick setup, saving significant time and labor costs. The reinforced aluminum frame surpasses die-cast enclosures in strength, ensuring a stable and durable structure.



Excellent Heat  
Dissipation



Low-temperature  
High Brightness



Multi-protections



## 2.2 PRODUCT PARAMETER

Product Model		H05C -P3.91
Pixel Pitch		3.91 mm
LED Type		SMD 1415
Cabinet Dimensions (W*H*T)	Floor-standing	1006 × 2500 × 90 mm
	Hanging	1006 × 2250 × 90 mm
Display Size		1000 × 2000 mm
Display Resolution		256 × 512pixels
Module Dimension		1000 × 250mm
Module Resolution		256 × 64pixels
Flight Case Dimension (1 Unit/Case)		1230 × 2350 × 300 mm
Weight		33kg
Brightness		≤ 3500 nits
Refresh Rate		3840~7680Hz
Color Temperature		3000~10000 K
Protection Rating		IP40
Max. Power Consumption		-1000W/Unit
Avg. Power Consumption		-400W/Unit
Physical Transparency		35%
Input Voltage		AC 90~240V
Operating Temperature & Humidity		-20~50 °C,0~80%
Cabinet Material		Aluminum
Installation Method		Single、Splicing、Hanging
Control Card System		Novastar、Colorlight、Sysolution、Mooncell
Warranty		12 Months

# DIRECT DRIVE TRANSPARENT DISPLAY

II . Poster Machine Model:H05C

## 2.3 FLOOR STANDING (SINGLE-UNIT)



# DIRECT DRIVE TRANSPARENT DISPLAY

II . Poster Machine Model:H05C

## 2.4 FLOOR STANDING (MULTI-UNIT SPLICING)



# DIRECT DRIVE TRANSPARENT DISPLAY

II . Poster Machine Model:H05C

## 2.5 HANGING INSTALLATION



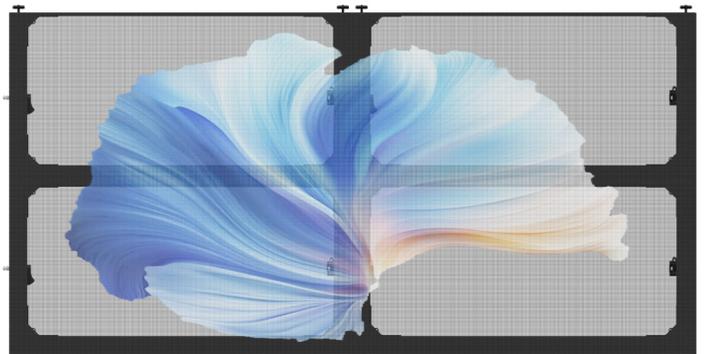
# DIRECT DRIVE TRANSPARENT DISPLAY

III. Rental Model:H01C

## 3.1 PRODUCT INTRODUCTION

### a / SELF-DEVELOPED IC, TRANSPARENT DISPLAY

KMT's self-developed driver chip size is only  $1.4 \times 1.4 \times 0.5$  mm and can be cleverly hidden behind the PCB board, enabling the screen to maintain high transparency and deliver a no black dots visual effect. Meanwhile, the product supports high refresh rate and high brightness, ensuring superior display performance in various environments.



### b / LED DRIVER-IC SEPARATION, HOLOTRANSPARENT COOL DISPLAY

Adopts an optimized LED Driver-IC Separation design, with externally mounted and evenly distributed chips to deliver excellent heat dissipation. This fundamentally ensures color accuracy without color shift and provides more stable operation. Even during long-term continuous use, the screen temperature remains within a comfortable, touch-safe range.



Low-temperature  
High Brightness



High Transparency Rate



Superior Heat  
Dissipation

### c / RELIABLE LOAD-BEARING CAPACITY, IP65 PROTECTION RATED

The rental display adopts a high-standard IP65 protection design, offering effective dust and rainwater resistance. In the meantime, its frameless design ensures the maximum transparency rate. The cabinet made of reinforced materials features higher structural strength than traditional die-cast zinc ones, with excellent anti-torsion performance, which guarantees a stable structure and reliable load-bearing capacity.

### d / FLEXIBLE INSTALLATION

Equipped with standard  $10^\circ$  curved quick locks and tensile top & bottom quick locks, it allows for  $90^\circ$  right-angle splicing, enabling easy screen mounting and fast assembly.

# DIRECT DRIVE TRANSPARENT DISPLAY

III. Rental Model:H01C

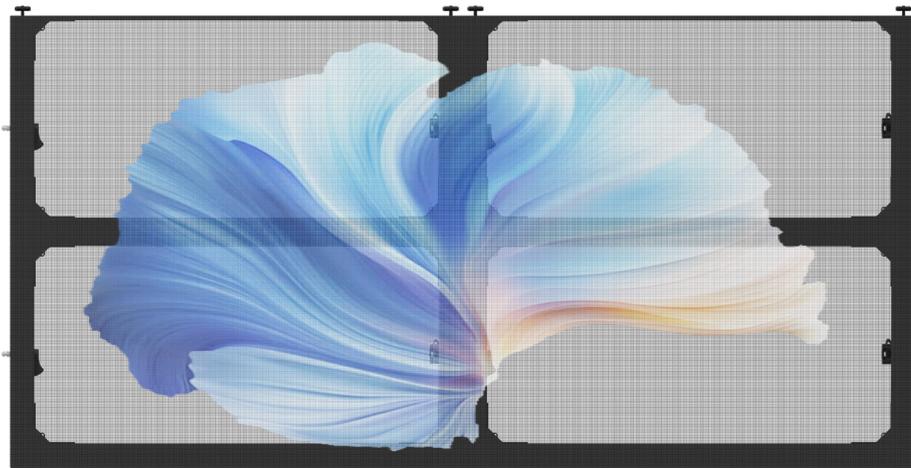
## 3.2 PRODUCT PARAMETER

Product Model	H01C -P3.91
Pixel Pitch	3.91 mm
LED Type	COB
Cabinet Dimensions (W*H*T)	1000 × 500 × 66 mm
Display Size	1000 × 500 mm
Display Resolution	256 × 128 pixels
Module Size (W*H)	125 × 500 mm
Module Resolution (W*H)	32 × 128 pixels
Weight	12 kg
Brightness	≤ 5000 nits
Refresh Rate	3840~7680Hz
Color Temperature	3000~10000 K
Protection Rating	IP65
Max. Power Consumption	600 W/m <sup>2</sup>
Avg. Power Consumption	240 W/m <sup>2</sup>
Physical Transparency	35%
Input Voltage	AC 90~240 V
Operating Temperature & Humidity	-20~50 °C,0~80%
Cabinet Material	Aluminum
Installation Method	Fixed, Hanging, Floor Standing
Control Card System	Novastar、Colorlight、Sysolution、Mooncell
Warranty	12 Months

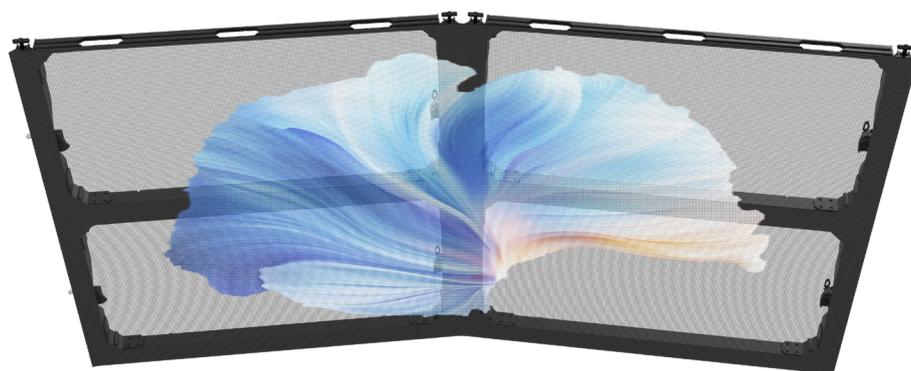
# DIRECT DRIVE TRANSPARENT DISPLAY

III. Rental Model:H01C

## 3.3 NORMAL SPLICING INSTALLATION



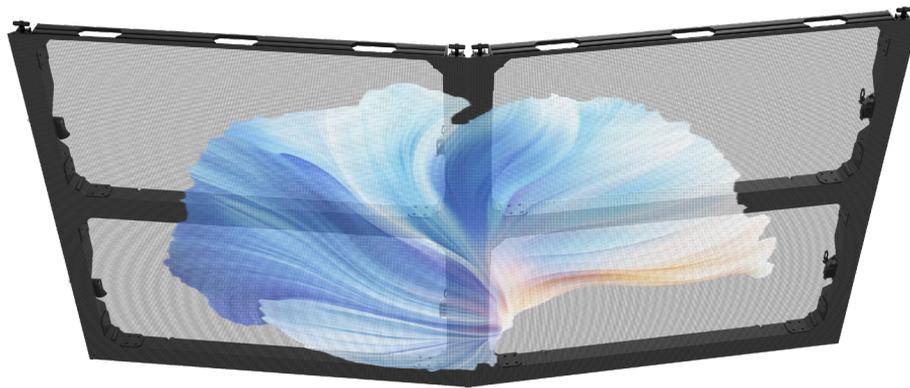
## 3.4 10° INNER CURVED SPLICING INSTALLATION



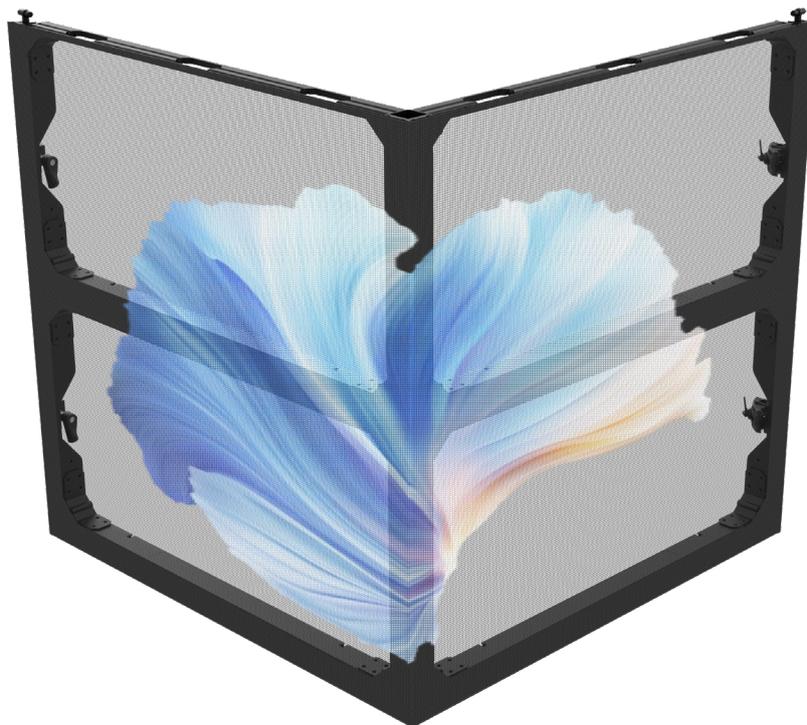
# DIRECT DRIVE TRANSPARENT DISPLAY

III. Rental Model:H01C

## 3.5 10° OUTER CURVED SPLICING INSTALLATION



## 3.6 90° RIGHT-ANGLE SPLICING INSTALLATION



IV. CASE SHOW

