Three-fold (Double-sided) LED Poster Screen

Product Specifications Model: TS3P186D

Product Overview

This three-fold (double-sided) LED poster screen uses a 1.86 mm pixel pitch and an all-in-one aircraft aluminium chassis only 50 mm thin (110 mm when double sided). Weighing 78 kg with four built-in swivel wheels, it needs no professional installation - just plug it in. Its patented "one screen, two displays" design unfolds into a single 1280 x 2070 mm screen and folds instantly into a 640 x 2070 mm double-sided screen. It supports synchronous and asynchronous playback, one-click publishing from a mobile APP (USB drive, Ethernet, WiFi and 4G remote optional) and fast seamless splicing of multiple units into a larger canvas. The SMD lamp beads use a tile-grade GOB process that resists scratches, dropped LEDs, splashes and moisture, making the screen stable and reliable for shop windows, shopping malls, showrooms, meeting rooms, stages, live-stream backdrops and exhibition booths.

1. Product Rendering



Product rendering (for reference only; the actual product may vary)

2. Key Specifications

Pixel pitch **1.86 mm**	Unit weight **78 kg**
Single-sided outline **1280 x 2070 x 50 mm**	Double-sided outline **640 x 2070 x 110 mm**

3. Display Module

Pixel construction	SMD 3-in-1 LED
Module resolution	172 × 86 dots
Module size	320 x 160 mm
Protective process	GOB tile-grade protection (scratch, moisture and splash resistant)
Module weight	0.55 kg
Module composition	4 (W) x 12 (H) = 48 modules / side
Single-sided resolution	688 × 1032 px
Double-sided resolution	344 × 1032 px

4. Unit Structure

Unit type	Three-fold (double-sided display)
Single-sided display size	1280 x 1920 mm
Double-sided display size	640 x 1920 mm
Single-sided outline	1280 x 2070 x 50 mm (W x H x D)
Double-sided outline	640 x 2070 x 110 mm (W x H x D)
Unit weight	78 kg
Flatness	<= 0.5 mm
Chassis material	Aircraft aluminium, ultra-slim body
Mobility	4 swivel wheels built in
Installation	No installation needed; ready to use when powered on

5. Optical Parameters

White balance brightness	650 cd/m2
Gray scale	14-16 bit adjustable
Colour temperature	3200 - 9000 K adjustable
Contrast ratio	8000:1
Best viewing distance	3 - 20 m
Viewing angle (H / V)	160 / 160 deg
Centre-to-centre tolerance	<= 3%
Luminance uniformity	>= 95%
Chromaticity uniformity	within +/-0.003 (Cx, Cy)

6. Power Supply

Power requirement	AC 100 - 240 V
Peak power consumption	900 W

Average power consumption	300 W
Drive mode	Constant current drive

7. Communication and Audio

Synchronous / asynchronous	Supported (asynchronous offline loop playback)
Communication method	APP / USB drive / Ethernet / 4G remote
Interfaces	RS485 x 1, WIFI x 1, USB x 1, HDMI x 2
Built-in speaker	50 x 12 mm x 2 PCS
Audio interface	3.5 mm audio jack / supports external amplifier

8. Performance and Environment

Frame frequency	60 Hz
Refresh rate	>= 3840 Hz
Typical lifespan	50,000 hours
Operating temperature	-40 C to +50 C
Operating humidity	10% - 80% (non-condensing)
Storage temperature	-50 C to +50 C
Storage humidity	10% - 85% RH (non-condensing)

9. Application Scenarios



Application scenario (for reference only; the actual product may vary)