

Specification of Single-screen Display



Series: Single-screen Display

Product model: 50DS1A

Version: V1.6

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Special Instructions

- Subject to product configuration and manufacturing process, the actual product dimensions/weight may vary. Please refer to the physical product for accuracy.
- The product diagrams and illustrations in this specification are for reference only. The actual product performance (including but not limited to appearance, color, and dimensions) may have slight differences. Please refer to the physical product for accuracy.
- To ensure information accuracy, we reserve the right to revise text descriptions, images, and other content without prior notice. All adjustments are intended to align with the actual performance and specifications of the product.
- Product performance may be affected by the operating environment, including but not limited to temperature, humidity, altitude, and other factors. It is recommended to use the product under the officially recommended environmental conditions.
- The product is accompanied by a warranty card, which must be presented together with the purchase proof as valid warranty documentation. During the warranty period, free repair services are available (excluding damages caused by force majeure or improper use).

Product features

- Ultra-narrow bezel design with equal width (9.9mm) on all four sides.
- Ultra-slim body with an overall thickness as low as 65mm.
- Compatible with landscape and portrait mounting modes, supporting $\pm 30^\circ$ tilt installation to meet various application scenarios.
- IP5X-rated protection, enabling 24/7 continuous stable operation with reliability under diverse environmental conditions.
- Equipped with an automatic color and image enhancement processor, achieving precise image quality optimization and clear, delicate detail rendering.
- Built-in power detection module for real-time and accurate power consumption monitoring.
- Complies with Energy Star certification requirements.
- Supports optional OPS/SDM modules.

Main Specifications

1. Overview

Display	
Size	50"
Backlight Type	D-LED
Resolution(pixels)	3840×2160(RGB)
Brightness	500cd/m ²
Contrast Ratio	5000:1
Response Time	8ms
Pixel Pitch	0.285mm(H)×0.285mm(V)
Refresh Rate	60Hz
Viewing Angle	178°(H) / 178°(V)
Color Gamut	72% NTSC
View Area	1095.84mm(H)×616.41mm(V)
Display Colors	1.07G
Life Time	50,000hrs(min.)
System Properties	
OS	Android 16.0
CPU Architecture	Cortex A72×4 + Cortex A53×4
CPU Working Frequency	Max 2.2GHz
Number of CPU Cores	8
GPU	Mali-G52 MC3
RAM	4GB
ROM	64GB

Power		
Power Requirements		100 V ~ 240 V/AC, 50/60 Hz
Maximum Power (Without OPS)		145W
Standby Condition		<0.5W
Power (AC) Input		×1
Function		
Audio Power		10W×2
Wi-Fi		Wi-Fi 6
Bluetooth		Bluetooth 5.3
Input/Output Interface		
Mainboard Interface	HDMI IN	×2
	DP IN	×1
	LAN	×1
	USB 2.0	×1
	VGA IN	×1
	IR-IN	×1
	RS232 IN	×1
	RS232 OUT	×1
	AUDIO IN	×1
	AUDIO OUT	×1
	OPS Slot	Optional
Environment		
Operating Temperature		0°C ~ 40°C
Storage Temperature		-10°C ~ 60°C
Operating Humidity		20% ~ 80%
Storage Humidity		10% ~ 80%
Operating Altitude		≤5000m
The Longest Service Time		7 days×24 hours

Structure	
Product Size(W×D×H)	1119mm×65mm×639mm
Package Size(W×D×H)	1240mm×140mm×775mm
VESA	400mm×400mm M8×4
Housing Material (Front Bezel/Rear Cover)	Aluminum/Sheet Metal
Housing Color (Front Bezel/Rear Cover)	Black/Black
Language	
OSD Menu	English/Simplified Chinese, etc.
Accessories	
Remote Control	×1
3m Power Cable	×3
3m HDMI Cable	×1
Certificate of Compliance	×1
Warranty Card	×1
Wall Mount Bracket	×1