

DATASHEET

10.1" AIO Two-Side Lights Interactive Display

DP24J-SL10

Change Log

Ver.	Description	Edit	Review	Date
V2.0	Initial version			2024.03.18

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Chapter 1 Overview

1.1 Scope of Application

This smart terminal is a 10.1-inch single-screen touch display device that can be a wall-mounted installation or fixed on a desktop VESA bracket. It is widely applicable in counter-intelligent interaction scenarios such as e-government, finance, postal services, communications, public services, public security, etc.

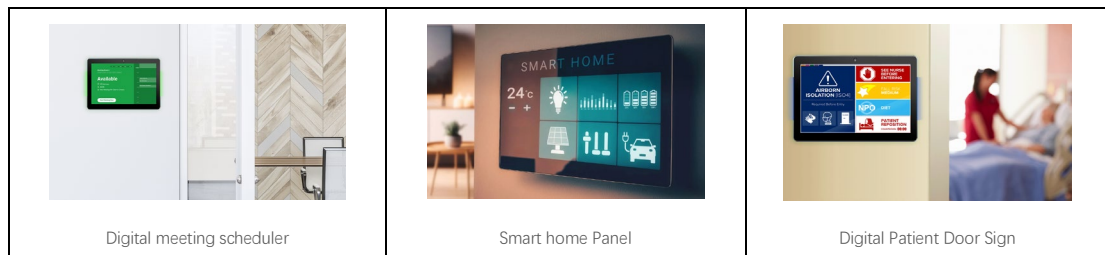
It's based on ARM high-performance processor and equipped Android / Linux operating system.

Optional extensions:

- * POE power supply
- * QR code scanner
- * IC/ID card recognition
- * Portrait collection
- * Face recognition
- * Far-field voice
- * 4G LTE network

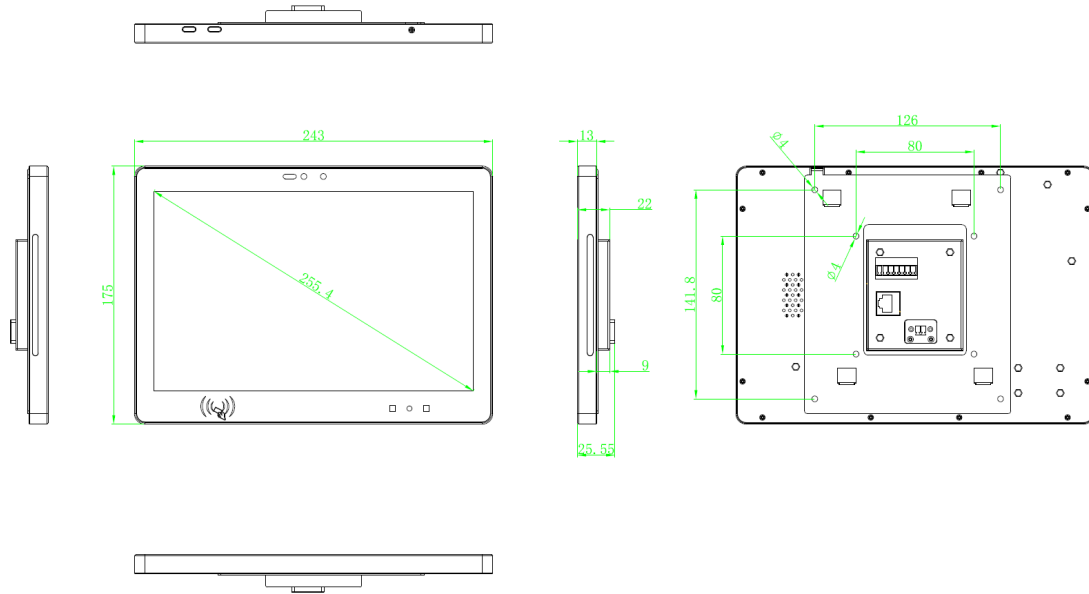
This 10.1-inch single-screen touch display adopts professional ID 3D modeling and industrial-grade design. The chassis is made of aluminum alloy that meets national eco standards, CNC processing technology, anti-salt spray surface oxidation, waterproof, dustproof, anti-corrosion, high-temperature resistance, and other characteristics, fully chemically tempered ultra-white glass.

1.2 Using scenes

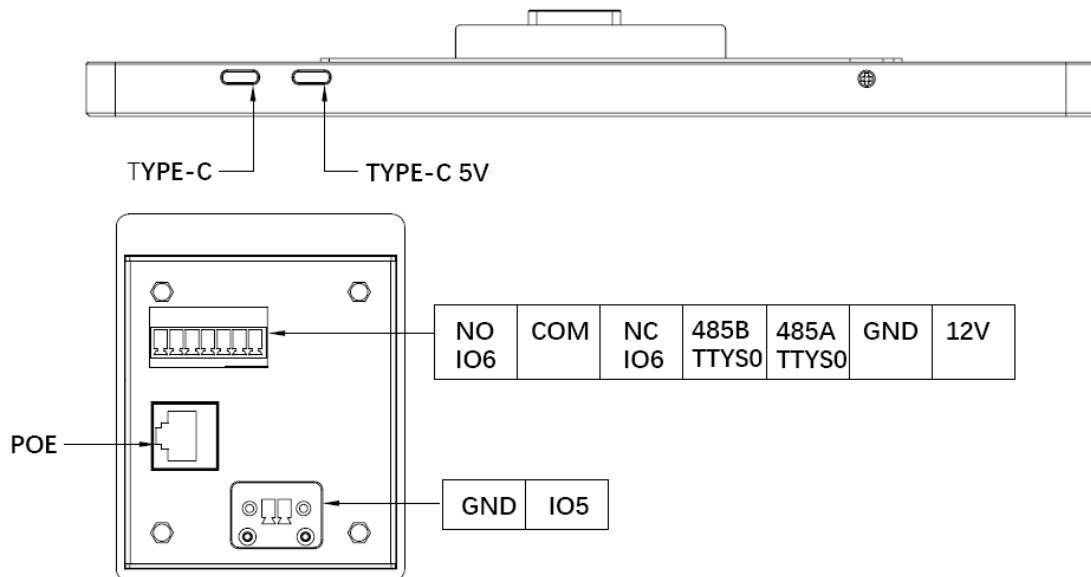


Chapter 2 Product Overview

2.1 Dimension



2.2 Interface

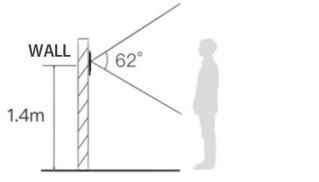
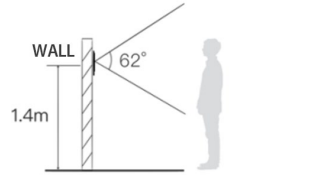
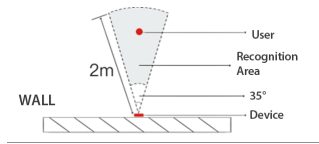
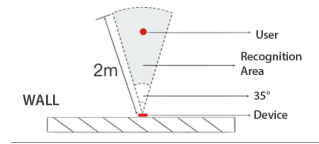


2.3 Photo



Chapter 3 Datasheet

IPS FULL LAMINATION TOUCH PANEL	
Dimension	10.1"
Resolution	1280(H) * 800(V)
MIPI	MIPI-DSI
Aspect Ratio	16:9
Brightness (Typical)	300 cd/cm ²
Contrast (Typical)	1000:1
Display Colors	16.7M colors
LED Life-time (Min.)	15,000 hours (Define as the estimated time to 50% degradation of initial luminous)
View Angles L,R,UD (CR > 10)	85°/85°/85°/85°
Surface	IP42, Antiglare, Hard coating (3H)
VESA Dimension	80mm * 80mm
Unit Weight	1.1 KG

CAMERA OPTIONS		
Type	Colored RGB camera	Infrared black/white camera
Resolution	2MP / 5MP	1.3MP
Aperture	F 2.4	F 1.9
Focal Length	4.7mm	6mm
W/B (White balance)	Auto	Auto
WDR (Wide dynamic range)	110dB	Support
Vertical Wide Angle		
Horizontal Wide Angle		

PARAMETER											
SoC1	RockChip RK3568 Quad-core ARM Cortex-A55 CPU up to 2.0GHz										
SoC2	RockChip RK3566 Quad-core ARM Cortex-A55, up to 1.8GHz										
GPU1	Mali-G52-2EE support OpenGL ES 1.1/2.0/3.2, OpenCL 2.0 and Vulkan 1.1										
GPU2	Mali-G52-2EE support OpenGL ES 1.1/2.0/3.2, OpenCL 2.0 and Vulkan 1.1										
NPU1 & NPU2	1 TOP, support INT8/INT16/FP16/BFP16 hybrid operation, implement conversion of network model of TensorFlow / MXNet / PyTorch / Caffe series										
SYSTEM											
OS	Android	11 or above									
	Linux	Ubuntu Desktop、Ubuntu Server、Debian11、Buildroot、RTLinux									
VIDEO DECODER & ENCODER											
Video Encode	1080P@60fps - H.264/AVC BP/MP/HP@level 4.2										
	1080P@60fps (4096x4096@10fps with TILE) - H.265/HEVC MP@level4.1										
Video Decode	4K@60fps - H.265 HEVC/MVC、4K@60fps - H.264 AVC/MVC、4K@60fps - VP9 Profile0/2										
	1080P@60fps - VP8 version2/VC1/MPEG-4/MPEG-2/MPEG-1										
HARDWARE & I/O											
Storage	DDR	2GB/4GB/8GB 64bit LPDDR4/LPDDR4x									
	eMMC	8GB/16GB/32GB/64GB/128GB/256GB									
Network	LAN	1 × 100M Ethernet (1000M optional)									
	WiFi	1 × 2.4GHz / 5GHz dual band, Bluetooth 5.0									
	Data	1 × 4G LTE (5G optional)									
Output & Input	Video	1 × HD Camera input 1 × LVDS/MIPI output, 1 × EDP output									
	Audio	1 × HDMI Audio output 2 × Mono Speaker Output (8Ω x 2W) 1 × Matrix Mic input									
Interface	USB	1 × TYPE-C (USB 3.0)									
	Serial	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">NO IO6</td> <td style="padding: 2px;">COM</td> <td style="padding: 2px;">NC IO6</td> <td style="padding: 2px;">485B TTY0</td> <td style="padding: 2px;">485A TTY0</td> <td style="padding: 2px;">GND</td> <td style="padding: 2px;">12V</td> <td style="padding: 2px;">GND</td> <td style="padding: 2px;">IO5</td> </tr> </table>	NO IO6	COM	NC IO6	485B TTY0	485A TTY0	GND	12V	GND	IO5
	NO IO6	COM	NC IO6	485B TTY0	485A TTY0	GND	12V	GND	IO5		
	Scanner	1 × QR Code scanner									
	NFC	1 × IC/ID card recognition									
Clock	1 × RTC										
Power Supply	Type-C	5V/2A input									
	Serial	12V/2.5A input									
	POE	Support power over ethernet (Output power is 30W)									
Environment	Working temp.	-20°C- 60°C									
	Stored temp.	-20°C- 70°C									
	Stored humidity	10%~ 90 %									