

BOE



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Product Manual



Vision Best on Earth

1993 BOE Technology Group Co. was founded

70000⁺ BOE Patent Application Volume Top 10 in the world for 5 consecutive years

1/4 Today, every fourth smart terminal in the world has a display from BOE

Company Profile

Founded in April 1993, BOE is an IoT company providing smart products and professional services for information interaction and human health, forming "1+4+N" business groups with semiconductor display business as the core, sensor and solution, MLED, smart system innovation, and smart medical industry business integration development.

SL**AP-PBMA

32"/43"/50"/55"

500nit Android SoC Digital Signage



Key Feature

- FHD Resolution
- 500nits
- 7 × 24 Operation
- Android 7.1
- ARM Quad-Core Cortex A7
- Built-In Speaker
- Slim and light Design
- Landscape & Portrait Installation support
- VESA Mounting Interface

Specification

Model	SL32AP	SL43AP	SL50AP	SL55AP
Display				
Screen Size (Diagonal)	32 inch	43 inch	50 inch	55 inch
Native Resolution	1920 (H) × 1080 (V)			
Aspect Ratio	16 : 9			
Brightness	500 cd/m ²			
Contrast	≥ 3000:1	≥ 1200:1	≥ 5000:1	≥ 1200:1
View Angle	178°(H) / 178°(V)			
Display Color	16.7M			
Response Time	9.5ms	8ms	8ms	8ms
Operation Time	7 × 24H			
Life Time (Light Source)	50,000 Hrs (Typ.)			
Interface				
Input	-			
Output	Earphone × 1			
External Control	-			
Networks	LAN × 1 / WiFi			
Others	USB OTG × 1 / USB HOST × 1 / SD Card Slot × 1			
Built-In Speaker	8W × 2 (8Ω)			
Internal Player				
O/S	Android 7.1			
CPU	ARM Quad-core Cortex-A7@1.2GHz			
GPU	Mali400 MP2			
RAM/ROM	1GB / 8GB			
Power				
Power supply	AC 100~240V 50/60Hz			
Power consumption	≤ 50W	≤ 70W	≤ 138W	≤ 168W
Environment				
Operation Temperature	0°C~40°C			
Operation Humidity	20%~80% RH			
Storage Temperature	-20°C~60°C			
Storage Humidity	10%~80% RH			

SR**AA

43"/49"/55"/65"/75"

700nits Android SoC Digital Signage



Key Feature

- UHD (43" / 49" / 55" / 65" / 75") Resolution
- 700nits
- 7 × 24 Operation
- Android 9.0
- ARM Quad-Core Cortex-A53 SoC
- HDMI Input
- 4.5mm Super Slim Even Bezel Design
- Landscape & Portrait Installation support
- VESA Mounting Interface

Specification

Model	SR43AA	SR49AA	SR55AA	SR65AA	SR75AA
Display					
Screen Size (Diagonal)	43 inch	49 inch	55 inch	65 inch	75 inch
Native Resolution	3840 (H) × 2160 (V)				
Aspect Ratio	16 : 9				
Brightness	700 nit (Typ.)				
Contrast	≥ 1200:1				
View Angle	178°(H) / 178°(V)				
Display Color	16.7M				
Response Time	8ms				
Operation Time (Hour/Day)	24/7				
Life Time (Light Source)	50,000 Hrs (Typ.)				
Interface					
HDMI IN 2.0	×2 (HDMI1 ARC / HDMI 2)				
AV IN	×1 (3.5mm Earphone)				
USB 2.0	×2				
AUDIO_OUT	500mVRMS (MAX) ×1				
RS232	×1				
RJ45	×1				
TF Card	×1				
Configuration					
CPU	A53*4				
GPU	Mali-G52				
RAM	1.5GHz				
ROM	16G eMMC 5.1				
LAN	10/100M				
WIFI	802.11b/g/n				
Bluetooth	4.2				
Internal Player					
CPU	A53*4, up to 1.5GHz				
GPU	Multi-Core Mali-G52				
RAM/Storage	2G/16G				
OS	Android 9.0				
Sound					
Built-in Speaker	10W × 2 (8Ω)				
Power					
POWER SUPPLY	AC 100V ~ 240V@50/60HZ				
POWER CONSUMPTION	110W	165W	160W	215W	290W
Environment					
Operation Temperature	0°C~40°C				
Operation Humidity	10%-85%				
Storage Temperature	-20°C~60°C				
Storage Humidity	5%-95%				

NK55G-EU250ME 55"

2500nits UHD Open Kit Signage Monitor



Key Feature

- UHD Resolution
- 2500nit High Brightness
- Blackening Effect Free (Tni 110°C)
- Visible with Polarized Sunglasses (QWP Front Pol.)
- Multiple External Input Interfaces
- Brightness Auto Adjustment with Ambient Light Sensor
- Remote Monitoring & Control
- Quiet Built-in Cooling Fan
- Open Kit Design for Enclosure Customization

Specification

Model	NK55G-EU250ME
Display	
Screen Size (Diagonal)	55 inch
Native Resolution	3840 × 2160
Refresh Rate	120Hz
Brightness	2500 cd/m ² (Typ.)
Contrast	1200:1
View Angle	178°(H) / 178°(V)
Display Color	1.07G (8Bit+Hi-FRC)
Response Time	8ms
Installation Orientation	Landscape & Portrait
Operation Time	7 × 24
LC Tni	105°C
QWP Front Pol.	Yes
Life Time (Light Source)	50,000 Hrs
Connectivity	
Input	HDMI ×2 / DP ×1
Output	Audio ×1
External Control	RS232 ×1
Sound & Others	
Built-in Speaker	-
Sensor	Ambient Light Sensor / Temp. & Hum. Sensor / Water Sensor
Cooling Fan	×2 (Default On)
Remote Monitoring & Control Board	
Monitoring & Control	Picture Settings / Temperature / Humidity / Water Logging / Power
Communication	LAN
RTC	Yes
Firmware Update	USB
Power	
Power supply	AC 100~240V@50/60Hz (110V/220V Mode Switch for 24V PSU)
Power consumption	≤ 340W
Environment	
Operation temperature	0°C~40°C (Direct Sun Light) 0~50°C (w/o Direct Sun light)
Operation humidity	10%~80% RH
Storage temperature	-20°C~60°C
Storage humidity	10%~80% RH

DV**A

32"/43"/50"/55"

Smart Digital Manual Board



Key Feature

- Ultra HD Resolution (3840x2160)
- ADS PID Panel
- High Brightness Anti-glare Display
- Narrow Even Bezel Design
- Landscape & Portrait Installation
- Clean-cable Chain Design
- Built-in VDW Mode

Specification

Model	DV32A-A	DV43A-A	DV50A-A	DV55A-A
Display				
Screen Size (Diagonal)	32 inch	43 inch	50 inch	55 inch
LCD Type	ADS	ADS	VA	ADS
Native Resolution	1920×1080	3840×2160	3840×2160	3840×2160
Aspect Ratio	16:9			
Brightness	500nits (Typ.)			
Backlight	D-LED			
Static Contrast	1200:1 (Typ.)	1200:1 (Typ.)	5000:1 (Typ.)	1200:1 (Typ.)
Reponse Time (G to G)	8ms (Typ.)	8ms (Typ.)	6ms (Typ.)	8ms (Typ.)
View Angle (H/V,CR>10)	178°/178°			
Colour Depth	16.7M (8bit)	1.07G (8bit+FRC)	1.07G (8bit+FRC)	1.07G (8bit+FRC)
Colour Gamut	CIE1931 NTSC72% (Typ)			
Surface Treatment	Haze 25%, 3H	Haze 25%, 3H	Haze 1%, 3H	Haze 25%, 3H
Installation Orientation	Landscape & Portrait			
Operation Hours (Hours/Day)	24/7			
Life Time (BLU)	50,000Hrs			
MTBF	30,000Hrs (Min.)			
SoC				
CPU	ARM Quad Core Cortex-A53, up to 1.5GHz			
GPU	ARM Mali-G52 2EE MC1			
Memory	2GB (DDR3)			
Storage	16GB (EMMC)			
O/S	Android 9.0 (AOSP)			
Connectivity				
HDMI IN	×2 (HDMI2.0,HDCP 2.2/1.4)			
AV IN	×1 (3IN1)			
AUDIO IN	×1 (Common used with AV IN)			
AUDIO OUT	×1 (3.5mm Stereo jack)			
RS232 IN	×1 (DSUB9)			
USB	×2(USB 2.0 Type A)			
Memory Card Slot	×1 (Micro SD)			
LAN	×1 (RJ45)			
WiFi/Bluetooth	Yes (2.4GHz, 802.11 b/g/n) / Yes (BT4.2)			
Sound				
Built-in Speaker	10W×2 (6Ω)			
Power				
Power Supply	AC 100~240V@50/60Hz			
Power Consumption	≤95W	≤170W	≤230W	≤250W
PowerConsumption(Standby)	< 0.5W			
Mechanical				
Colour/Material	Frame: Black/Aluminum Backcover: Black/SGCC			
Bezel Width	14.8mm (L/R/T/B)	13.9mm (L/R/T/B)	14.9mm (L/R/T/B)	13.9mm (L/R/T) 14.4mm (B)

NT22A-50A**21.5"****500Nits Open Frame Android Touch Signage****Key Feature**

- 1920 × 1080 Resolution with 500nits brightness
- Built-In Speakers
- Android SoC with RK3288 chip Quad core system
- Industrial grade components
- Open frame design with capacitive touch function

Specification

Model	NT22A-50A
Display	
Screen Size	21.5 inch
Native Resolution	1920 x 1080
Brightness	500 cd/m ²
Contrast	1000:1
View Angle	178°(H) / 178°(V)
Display Color	16.7M
Color Gamut	73% NTSC
Life Time (Light Source)	30,000 Hrs (Min.)
System	
Android CPU	RK3288 Android Quad Core
Operation System	Android 7.1
RAM	DDR3 2G
NAND Flash	8G
Network	LAN, WIFI
Built-in Speaker	2 × 2W (8Ω)
Physical	
Color	GRAY or BLACK
Body Dimension	523(H) x 315(V) x 56.7(D)
Set Weight	6.7KG
Package Dimension	610(H) x 423(V) x 152(D)
Package Weight	8.7KG
Mounting Holes	350x200
Interface	
TF Card Slot	1(In)
USB 2.0	2(In)
Audio	1(In)
HDMI	1(In)
VGA	1(In)
Power	
Power supply	AC110-240V(50/60HZ)
Rated Power consumption	60W
Environment	
Operation temperature	0°C~40°C
Operation humidity	10%~80% RH

BM476A-A01**47.6"****700nits Android Bar Display**

Key Feature

- ADSDS Technology
- 3840 × 160 Resolution
- 500 nits
- Android SoC
- Suitable for Shelf Installation
- External Input
- Industrial Slim design
- Full Metal Shell

Specification

Model	BM476A-A01
Display	
LCD Tech.	ADS
Screen Size	47.6 inch
Resolution	1920 × 360
Brightness	700 nits
BLU	E-LED
Contrast Ratio	1200:1
Viewing Angle(H/V)	178°/178°
Backlight Life	30,000 Hrs (Min.)

Internal Player

OS	Android 7.1
CPU	Allwinner A40i, Quad-core Cortex A7, Up to 1.2GHz
RAM	1GB
ROM	8GB
Network	LAN(RJ45) / Wi-Fi / BT4.0
I/O Interface	TF Card Slot × 1 / HOST USB × 1 (Type A) / OTG USB × 1 (Type A) / Earphone × 1

Power

Power supply	AC100-240V@50/60HZ
Power consumption	≤ 80 W

Environment

Operation temperature	0°C~50°C
Operation humidity	20%~80% RH

Physical

Screen Protection	/
Bezel	2.9mm (L/R) / 13.6mm (T/B)
Body Dimension	1201.44 (W) × 251.42 (H) × 38 (D) mm
Set Weight	7.15Kg
Package Dimension (6Pcs Inside)	1300 (W) × 430 (H) × 360 (D) mm
Package Weight (4Pcs Inside)	48 Kg