aws Qualified Device AWS IoT Core

Pantone® Validated Pro Signage

The future is brighter than ever

Overcome the challenges of managing and deploying signage with the SH04 series. Experience Pantone colors, Google integration, easy content management, and high brightness for impactful communication.

Display content:

Chapter 3: The Art of Oil Painting

Introduction to Oil Painting

Oil Painting 101: Learn essential techniques to create texture, depth, and dimension in your artwork.

Reference Colors

BenQ Education
Shape the Future of Learning

Pantone® Validated Pro Signage
SH5504/SH6504/SH7504

PANTONE Validated | **PANTONE SkinTone™** Validated
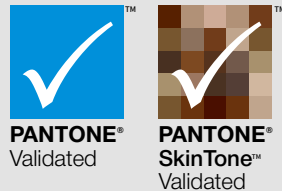Pantone colors

X-Sign
Signage enhanced

800 nits
High brightness

Simply the best

The SH04 is the world's first high-brightness, wide-color-gamut signage to be Pantone Validated, Pantone® SkinTone™ Validated, and Google certified. It delivers diverse color modes, customizable signage content, Google apps and services, and stunning brightness—truly one of a kind.
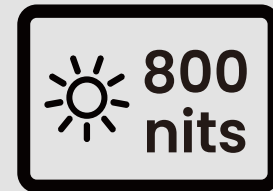
Pantone colors

The SH04 is Pantone Validated and Pantone SkinTone Validated to offer industry-standard colors for a range of applications.

Engaging signage

Create, display, and manage signage content and alerts for all your SH04 displays with BenQ X-Sign.

High brightness

With a 800 nits of brightness, the SH04 can display all of your content in stunning brilliance.

Color modes for enhanced classes

With a 95% DCI-P3 (CIE 1976) color gamut and 10-bit color depth, the SH04 can provide stunning color modes for a variety of applications.

The industry standard in color

Pantone mode is validated to offer Pantone colors, including the Pantone SkinTone Guide palette, so students studying subjects from art and design to fashion and photography can train with industry-standard colors.

Enhanced inclusivity in class

Pantone SkinTone Guide colors help students to accurately learn with every skin tone imaginable in medical, art, design, and cosmetology applications, and more.
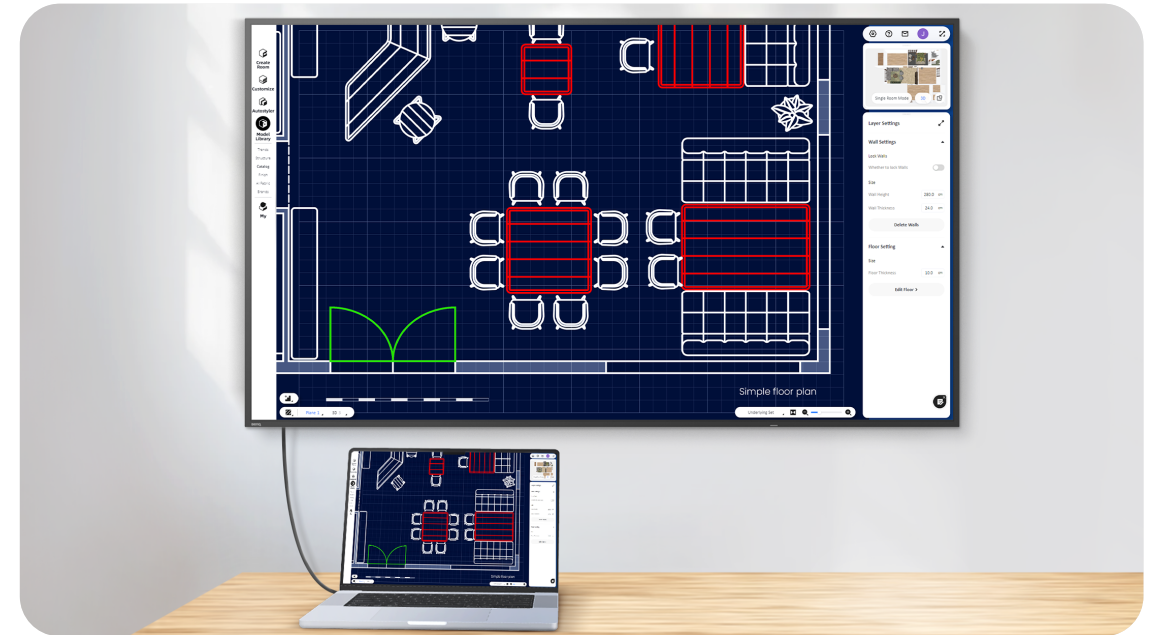
Color modes for enhanced classes

Experience MacBook perfection

See the vivid colors on your MacBook® faithfully reproduced on the vibrant display of the SH04 with M-book mode.
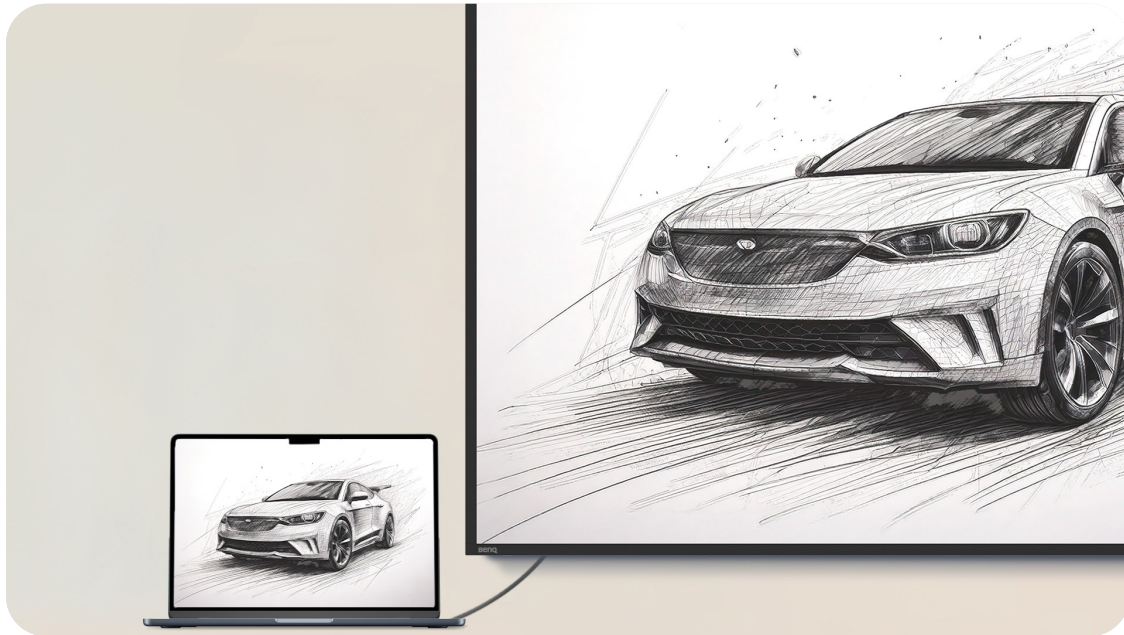
*MacBook® is a trademark of Apple Inc.

Detail where it counts most

High-detail mode on the SH04 provides greater contrast and clarity for schematics, blueprints, and floor plans for classes ranging from architecture and engineering to urban planning and interior design.

Color modes for enhanced classes

A paper-like viewing experience

Sketch mode simulates real paper by converting images to grayscale, introducing subtle warmth, and lowering display brightness. This improves visual comfort, conserves energy, and is ideal for courses in art, industrial design, fashion, and more.

A cinema in every space

Cinema mode lets you play video projects, films, and signage videos with vivid colors and depth. Connect an HDMI cable for HDR10 delivery and enjoy brighter highlights, deeper blacks, and richly detailed shadows for an immersive visual experience.

Digital signage redefined

Regular digital signage

BenQ SH04 digital signage

High brightness where it counts

With 800 nits of brightness, the SH04 ensures optimal visibility of your content in hallways, cafeterias, gymnasiums, and classrooms in any lighting condition.
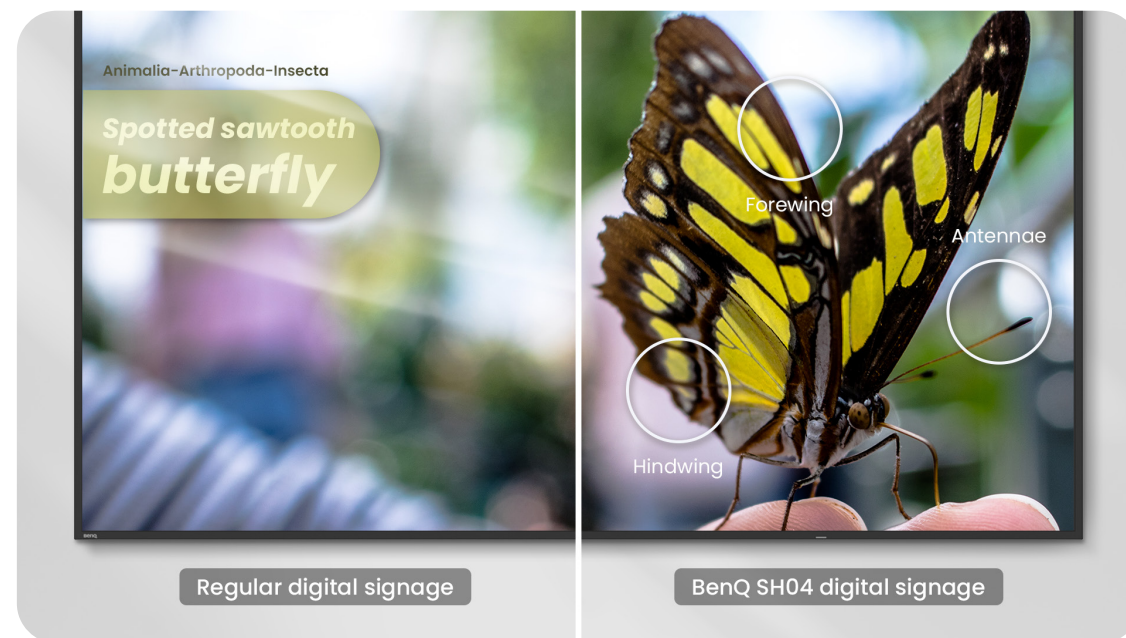
Comfortable viewing, anytime

Experience enhanced viewing comfort with an improved anti-glare screen, plus low blue light technology, for reduced eye strain.

Digital signage redefined
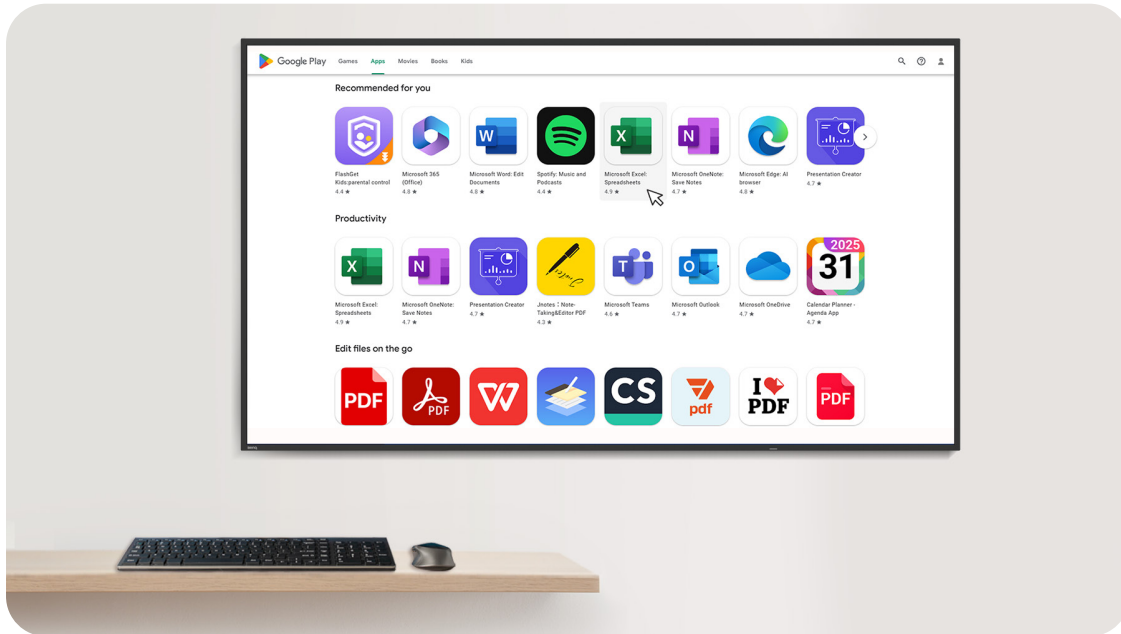
Connect and engage

Make the most of Google Play apps on the SH04 by connecting a keyboard and mouse for a truly engaging experience.


Display your way

The VESA-compatible SH04 can be easily mounted in portrait or landscape mode, making it ideal for various digital signage applications across your campus.
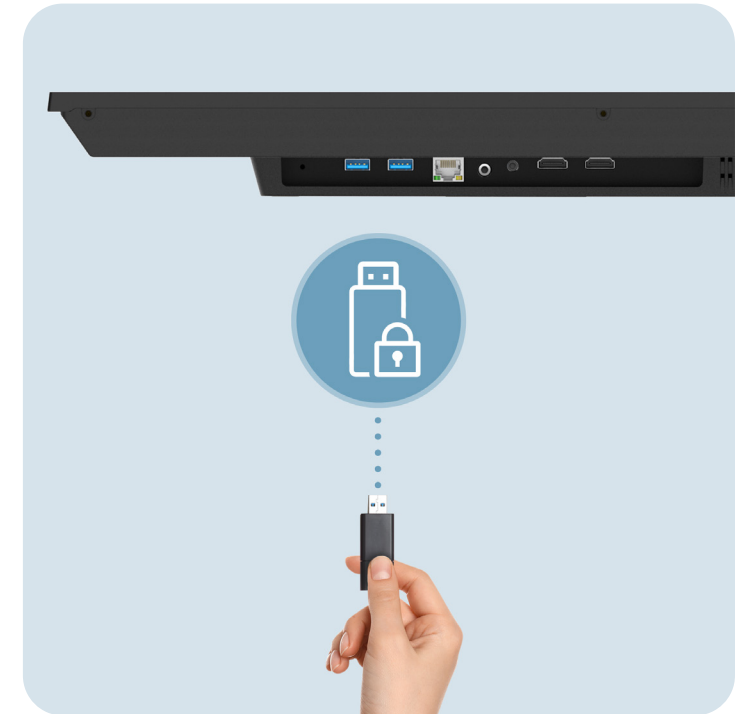
Digital signage redefined

Immersive audio and video

The SH04's powerful twin 12W speakers and stunning 4K display deliver captivating audiovisual experiences, bringing your content to life.
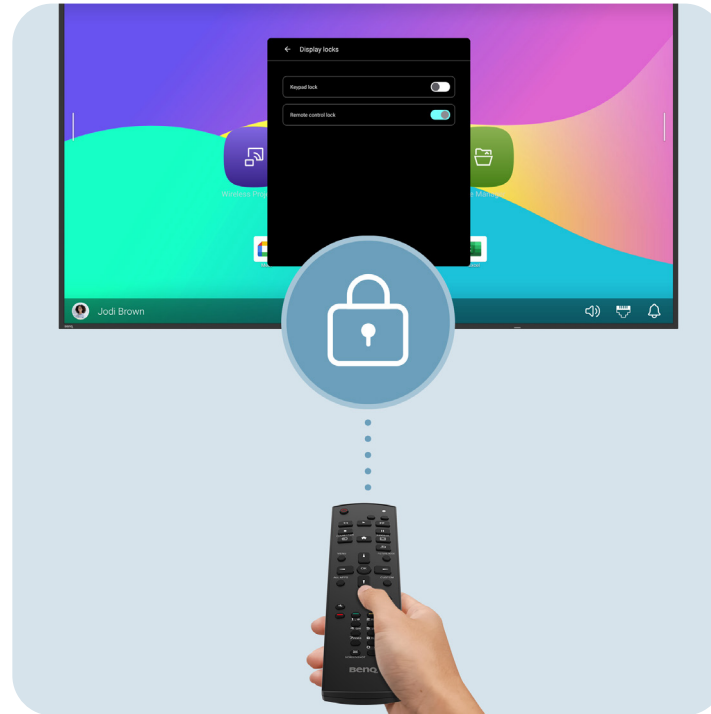
Take control of your signage

Protect your display with the SH04's IR sensor lock, preventing unauthorized access from universal remotes.
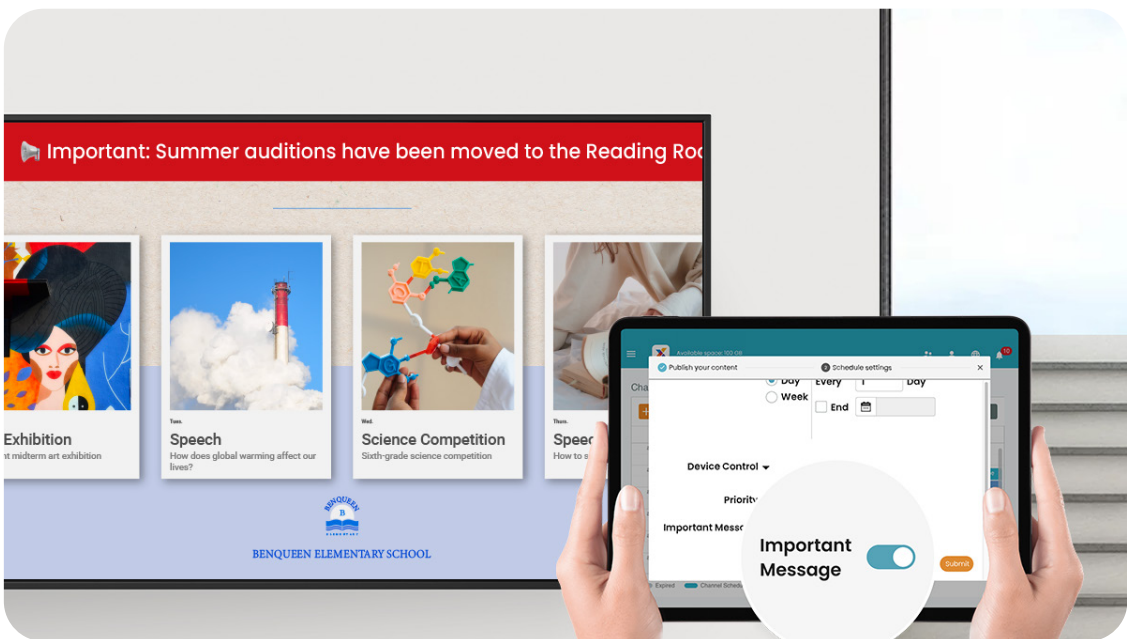
Enhanced security at every level

Dedicated Wi-Fi and USB covers add a further layer of protection at the hardware level for all your SH04 signage.

# Get the word out everywhere

Effortless remote signage

With X-Sign, you can remotely create, manage, and display content on every SH04 screen—from announcements and menus to team scores and more.

Broadcast to all your displays

Leverage X-Sign's advanced features to push real-time or scheduled announcements with alert sounds to every SH04 display in your school.

Get the word out everywhere

Regular digital signage

BenQ SH04 digital signage
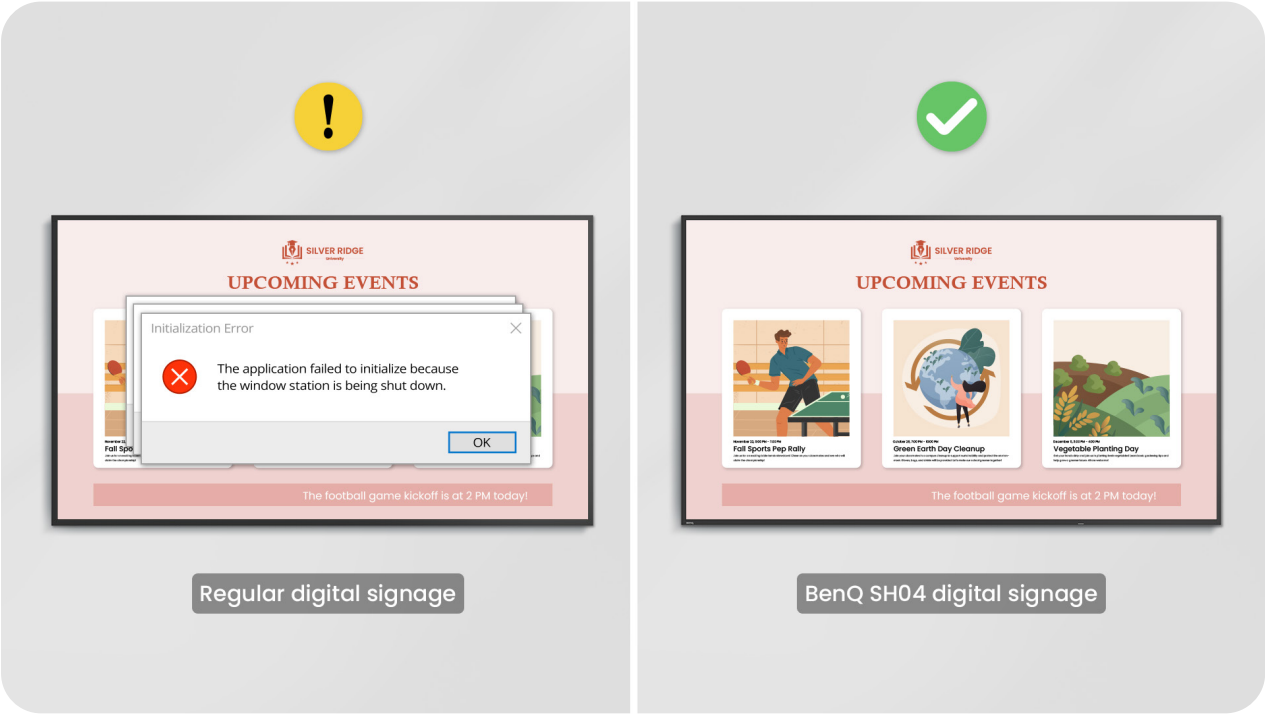
Uninterrupted content, every time

X-Sign keeps your content uninterrupted by message windows or system alerts, providing a seamless signage experience.

Streamlined management

The BenQ ecosystem makes managing devices, apps, and user accounts simpler than ever to reduce the workload of IT and admin staff.

Streamlined management

Remotely control every SH04

The BenQ Device Management Solution (DMS) lets IT admins manage SH04 signage remotely, handling device settings, power schedules, firmware updates, app installations, and more.

Streamlined management
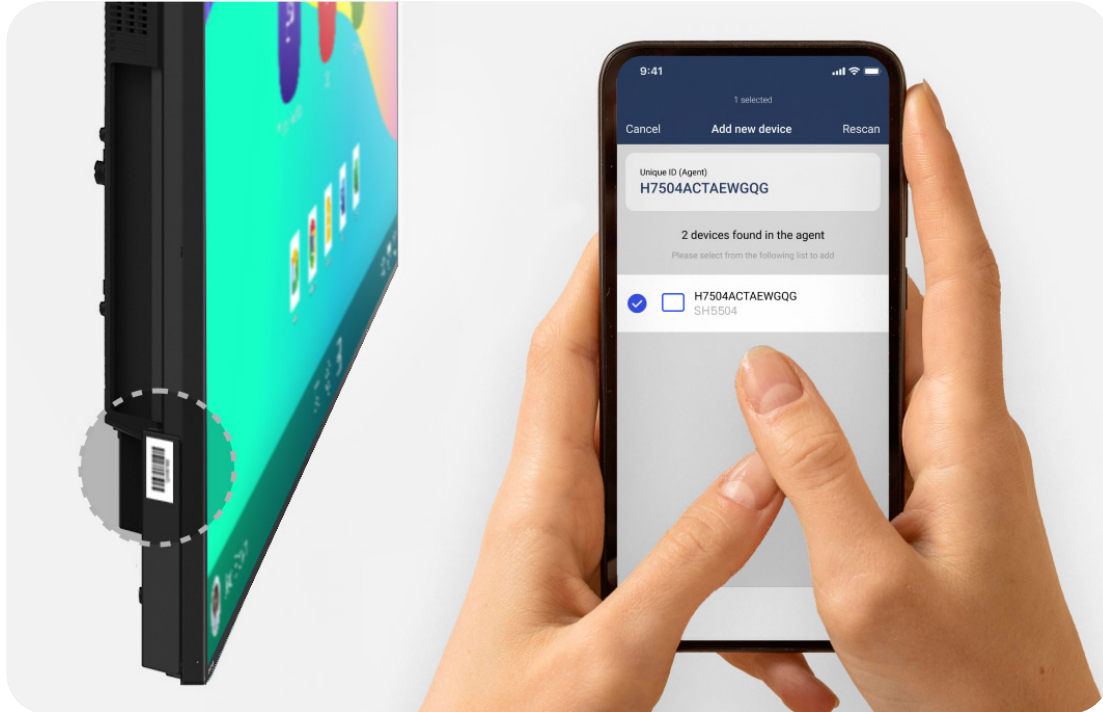
Streamlined provisioning

Easily provision multiple new SH04 displays by scanning the barcode on the box or device to connect them to DMS.
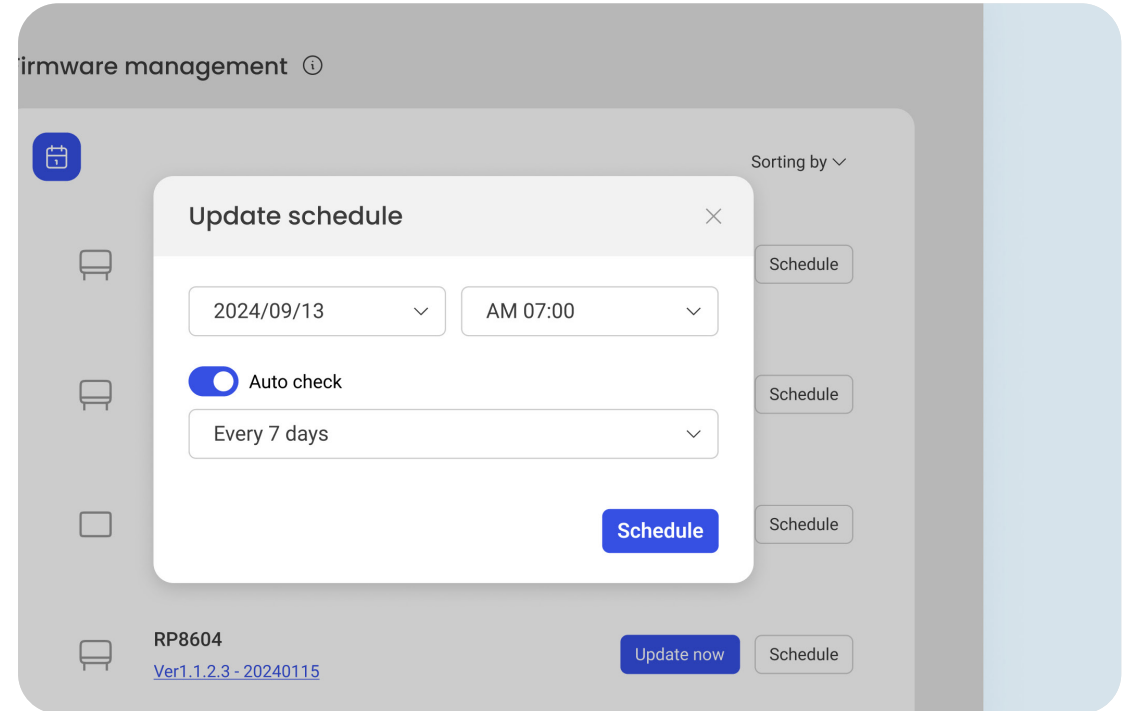
Easy firmware updates

Schedule automatic firmware updates to ensure your SH04 displays always have the latest features and security patches.

Created for classroom excellence
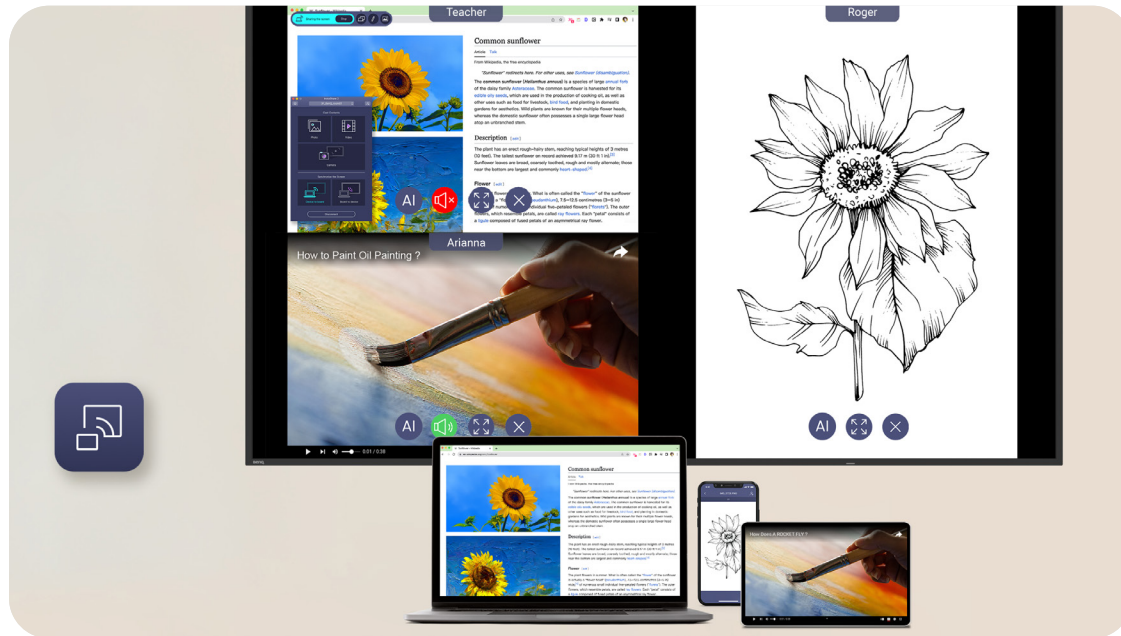
Easily share any content in class

Effortlessly share content across devices with InstaShare 2. Compatible with Windows, Android, macOS, iOS, iPadOS, and ChromeOS, InstaShare 2 allows wireless casting and includes a built-in smart controller for seamless presentation control.
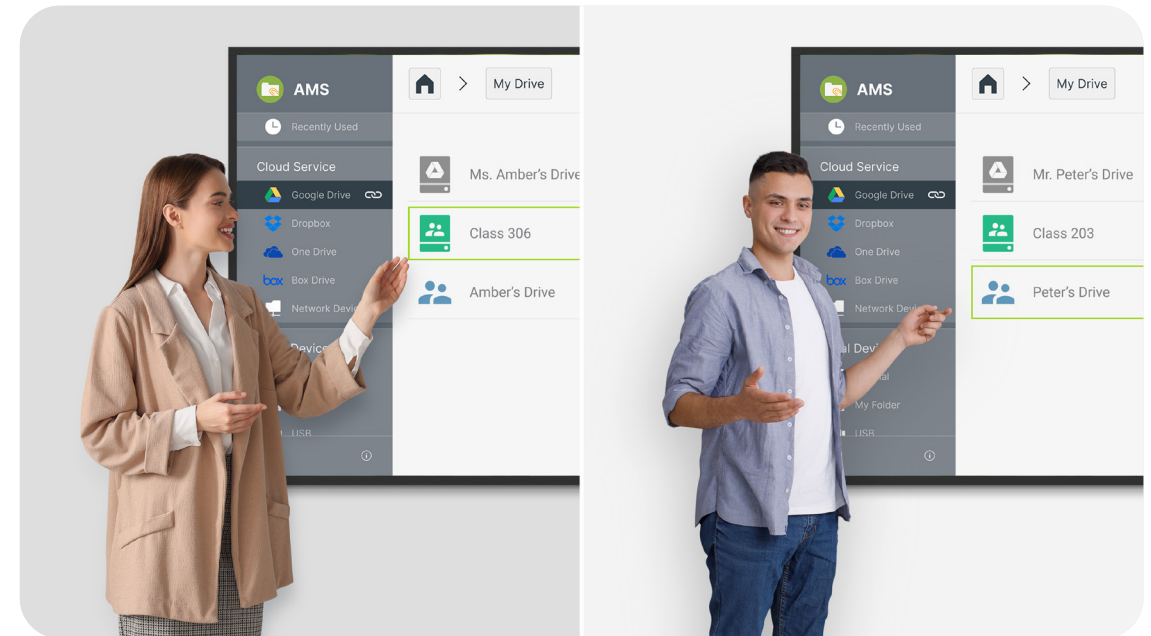
All your files in one place

Securely log into your BenQ account with the scan of a QR code to find your cloud drives, pinned apps, and website bookmarks. Plus, only you can see your data on the SH04.

Created for classroom excellence
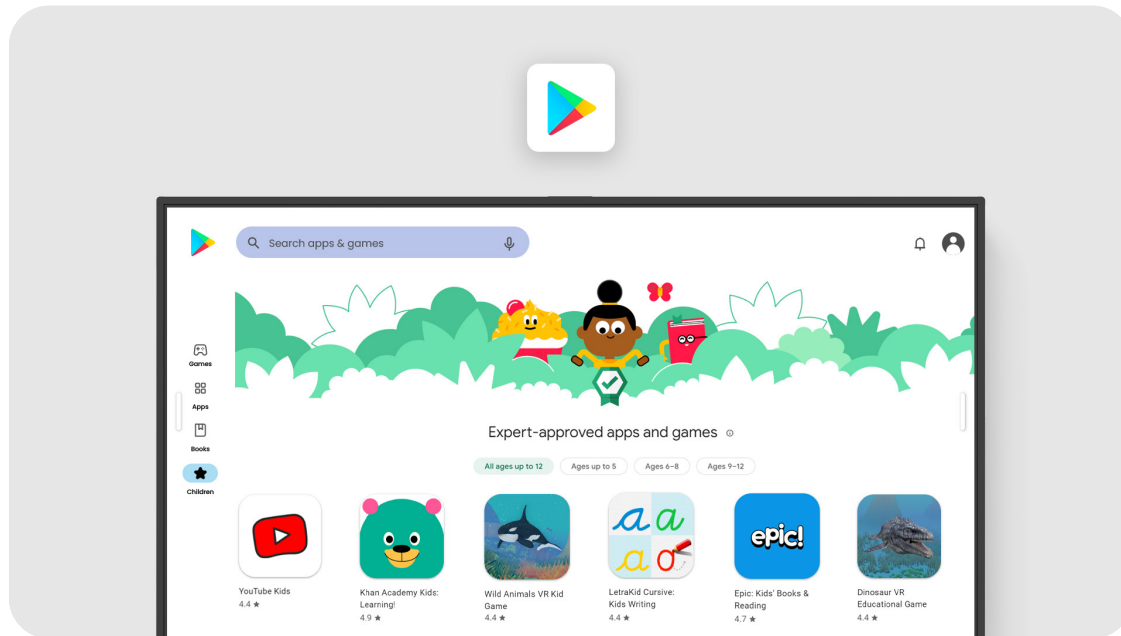
Teach with the apps you love

With the SH04's EDLA certification, you can access the extensive library of apps on the Google Play Store. Use the programs you're familiar with to keep learning engaging without skipping a step.
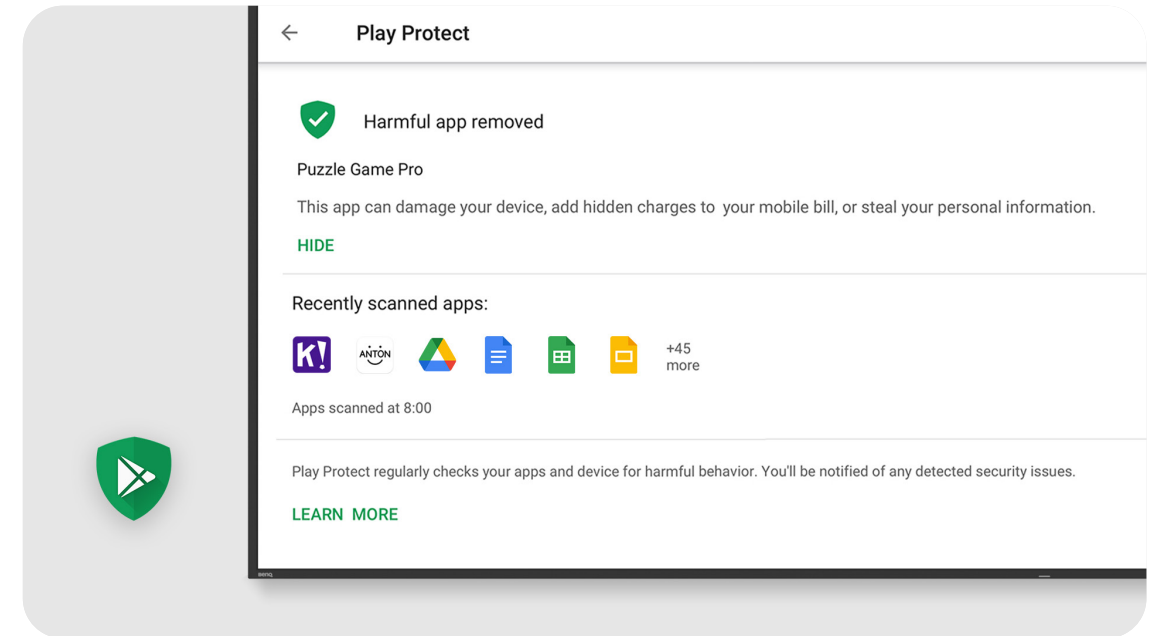
Secure apps with Google Play Protect

Google Play Protect prevents harmful apps from being downloaded to the SH04 and removes any that exhibit malicious behavior.

Built-in sustainability

Certified energy saver

The SH04 series is ENERGY STAR® 8.0 certified, making it easier for you to lower emissions and cut down on energy costs.

Reduced footprint

We've decreased the display's packaging size by half, improving transport efficiency by 60% and cutting emissions.

Remote energy control

Easily set sleep modes, remote power scheduling, and get real-time energy usage insights with DMS.

SH04 Device Specifications

W

H

D
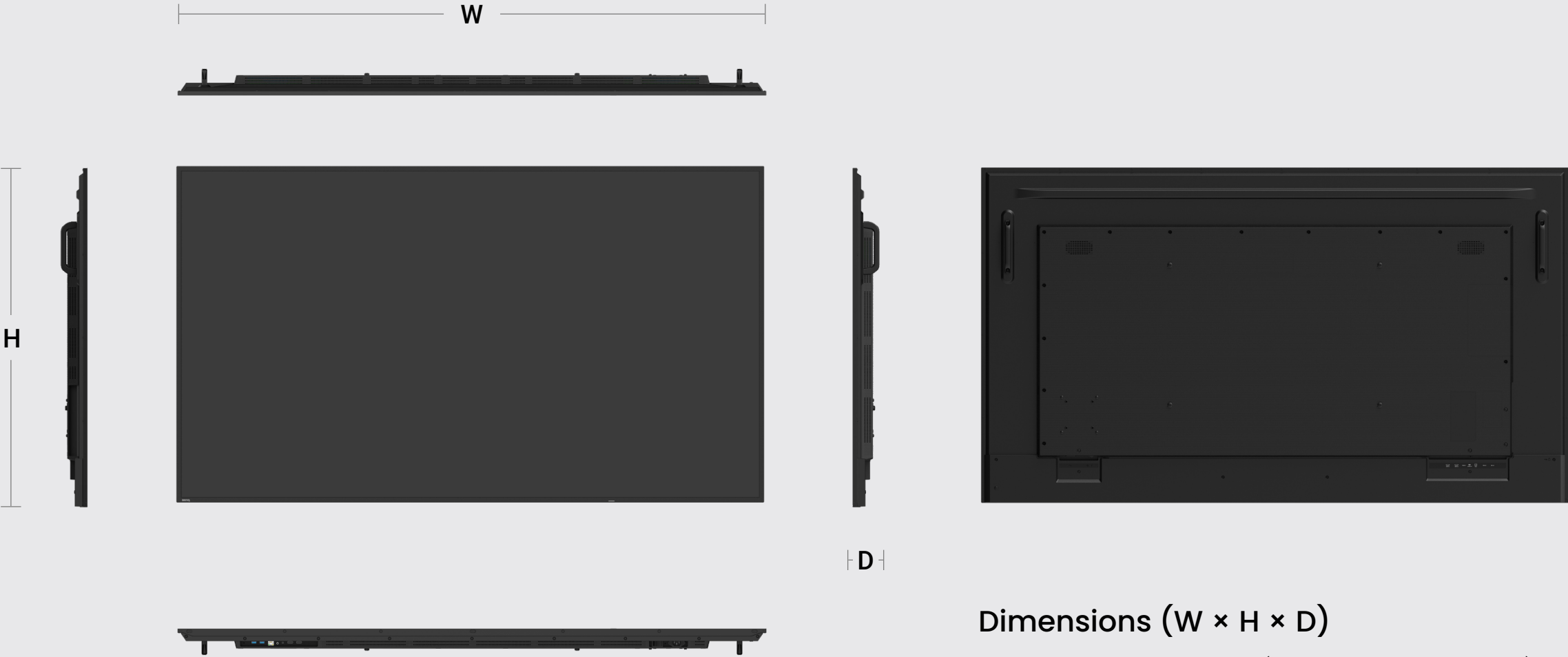
Dimensions (W × H × D)

SH5504 | 48.7 × 27.9 × 2.2 in (1237.3 × 709.8 × 56.4 mm)

SH6504 | 57.3 × 32.8 × 2.2 in (1456.4 × 833.7 × 57 mm)

SH7504 | 66.1 × 37.8 × 2.2 in (1679.7 × 959 × 56.8 mm)

SH04 Device Specifications
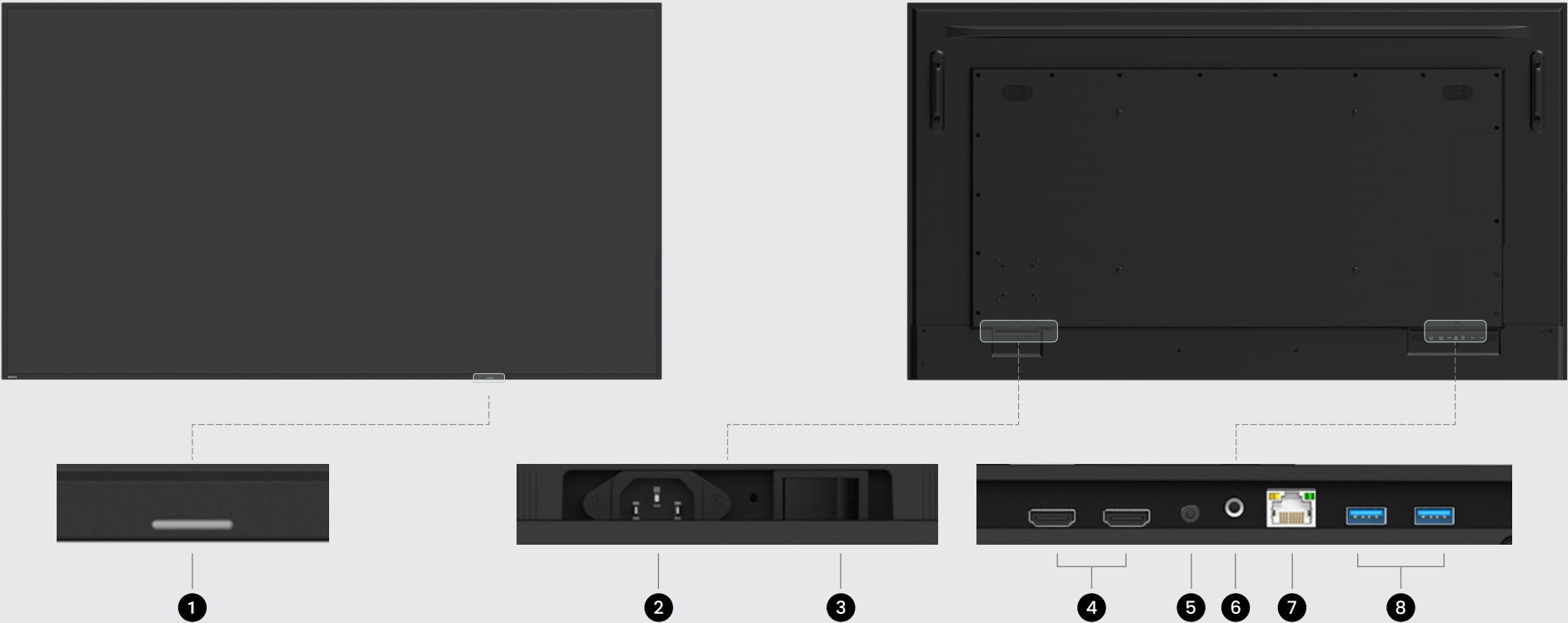
1. IR sensor & Power LED

2. Power switch

3. Power input

4. HDMI in ports

5. RS-232 in port

6. 3.5 mm audio out jack

7. Ethernet port

8. USB 2.0 Type A ports

VESA Specifications
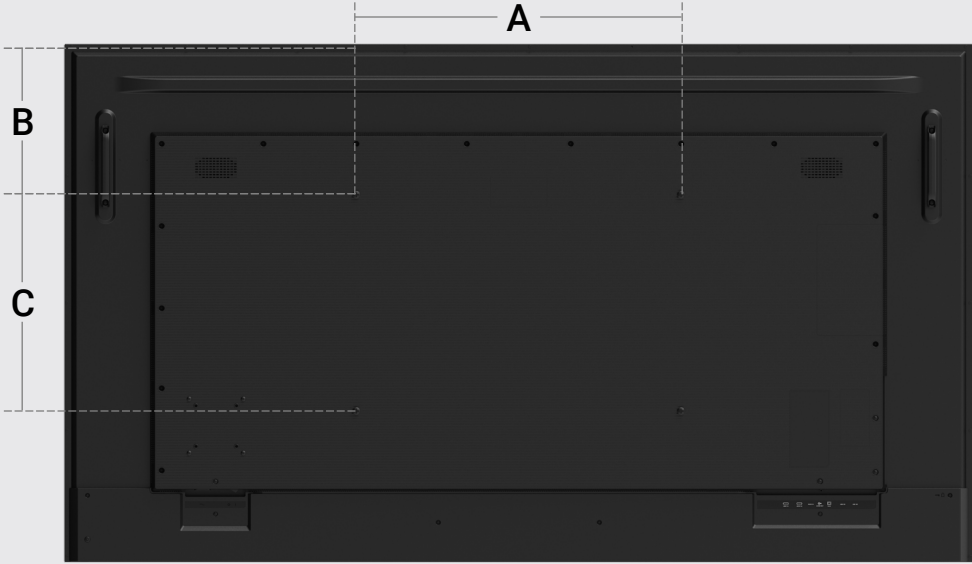
Dimension	55"	65"	75"
A	15.8 in (400 mm)	15.8 in (400 mm)	23.6 in (600 mm)
B	6.4 in (154 mm)	9.1 in (230.4 mm)	11 in (279 mm)
C	15.8 in (400 mm)	15.8 in (400 mm)	15.8 in (400 mm)

Model	SH5504	SH6504	SH7504
Panel			
Screen size	55"	65"	75"
Panel supplier	BOE	BOE	BOE
Bright / Dark / Total defective pixels (Refer to panel IIS for details)	0 / 12 / 12	0 / 12 / 12	3 / 12 / 15
Light source	Direct LED	Direct LED	Direct LED
Panel grade	PID	PID	PID
Panel type	IPS	IPS	IPS
Operation hours	24 hours / 7 days	24 hours / 7 days	24 hours / 7 days
Orientation	Landscape and Portrait	Landscape and Portrait	Landscape and Portrait
Active area	47.6 × 26.7 in (1209.6 × 680.4 mm)	56.2 × 31.6 in (1428.5 × 803.5 mm)	64.9 × 36.5 in (1649.7 × 927.9 mm)
Aspect ratio	16:9	16:9	16:9
Contrast ratio (typical)	1200:1	1200:1	1200:1
Resolution	4K UHD (3840 × 2160 pixels)	4K UHD (3840 × 2160 pixels)	4K UHD (3840 × 2160 pixels)
Response time	8 ms	8 ms	8 ms
Pixel pitch	0.012 × 0.012 in (0.32 × 0.32 mm)	0.014 × 0.014 in (0.37 × 0.37 mm)	0.016 × 0.016 in (0.43 × 0.43 mm)
Frame rate	60 Hz	60 Hz	60 Hz
Viewing angle	178°	178°	178°
Panel surface	Anti-glare | Haze 25%	Anti-glare | Haze 25%	Anti-glare | Haze 25%
Color gamut (CIE 1976)	95% DCI-P3, 99% sRGB, 85% NTSC	95% DCI-P3, 99% sRGB, 85% NTSC	95% DCI-P3, 99% sRGB, 85% NTSC
Color depth	10-bit	10-bit	10-bit
Panel brightness (typical)	800 nits	800 nits	800 nits
Backlight life (typical)	50,000 hrs	50,000 hrs	50,000 hrs

Glass			
Anti-glare	Yes	Yes	Yes
System			
SoC	AML311D2	AML311D2	AML311D2
CPU	A73 × 4 + A53 × 4	A73 × 4 + A53 × 4	A73 × 4 + A53 × 4
GPU	G52 MP8	G52 MP8	G52 MP8
Operating system	Android 13.0	Android 13.0	Android 13.0
Memory	Storage	8 GB	64 GB	8 GB	64 GB	8 GB	64 GB
Connectivity			
HDMI (in	out)	2 × HDMI 2.0	No	2 × HDMI 2.0	No	2 × HDMI 2.0	No
Ethernet	10 / 100 Mbps (Android) × 1	10 / 100 Mbps (Android) × 1	10 / 100 Mbps (Android) × 1
RS-232	1	0	1	0	1	0
USB Type-A	2 × 2.0	2 × 2.0	2 × 2.0
Built-in peripherals			
Speaker	2 × 12 W	2 × 12 W	2 × 12 W
IR sensor	Yes	Yes	Yes
Power			
Power	AC 100-240V 50 / 60Hz	AC 100-240V 50 / 60Hz	AC 100-240V 50 / 60Hz
Switch	1	1	1
Wake up	HDMI / LAN	HDMI / LAN	HDMI / LAN
Maximum power consumption	270 W	370 W	420 W
Standby power consumption	<0.5 W	<0.5 W	<0.5 W
Typical power consumption	110.3 W	131.3 W	144.9 W
ENERGY STAR®	Yes	Yes	Yes

Physical

Dimensions (W × H × D)	48.7 × 27.9 × 2.2 in (1237.3 × 709.8 × 56.4 mm)	57.3 × 32.8 × 2.2 in (1456.4 × 833.7 × 57 mm)	66.1 × 37.8 × 2.2 in (1679.7 × 959 × 56.8 mm)
Bezel width (T I B I L I R)	0.5 | 0.5 | 0.5 | 0.5 in (12 | 12.8 | 12 | 12 mm)	0.5 | 0.5 | 0.5 | 0.5 in (12.5 | 12.5 | 11.8 | 11.8 mm)	0.5 | 0.5 | 0.5 | 0.5 in (13 | 13.5 | 13 | 13 mm)
Weight (product I shipping)	32.4 lbs | 42.1 lbs (14.7 kg | 19.1 kg)	45.6 lbs | 63.3 lbs (20.7 kg | 28.7 kg)	63.9 lbs | 89.3 lbs (29 kg | 40.5 kg)
Mount (screws)	VESA 400 × 400 mm (4 × M6 × 12L)	VESA 400 × 400 mm (4 × M8 × 16L)	VESA 600 × 400 mm (4 × M8 × 16L)
VESA Hole (for media player)	1 (75 × 75, 100 × 100)	1 (75 × 75, 100 × 100)	1 (75 × 75, 100 × 100)
Housing material	PC+ABS V0	PC+ABS V0	PC+ABS V0
Handles	N/A	N/A	2
Shipping dimensions (W × H × D)	54.6 × 33.3 × 5.1 in (1386 × 845 × 130 mm)	65 × 6.4 × 40 in (1650 × 162 × 1016 mm)	74.1 × 7.3 × 44.9 in (1883 × 186 × 1140 mm)

Environment

Storage temperature	-14°F - 140°F | -10°C - 60°C	14°F - 140°F | -10°C - 60°C	14°F - 140°F | -10°C - 60°C
Operating temperature	32°F - 104°F | 0°C - 40°C	32°F - 104°F | 0°C - 40°C	32°F - 104°F | 0°C - 40°C
Storage humidity	10% - 80% RH non-condensing	10% - 80% RH non-condensing	10% - 80% RH non-condensing
Operating humidity	10% - 80% RH non-condensing	10% - 80% RH non-condensing	10% - 80% RH non-condensing

Software

Device management	DMS	DMS	DMS
Content management	X-Sign	X-Sign	X-Sign
Wireless screen sharing	InstaShare 2	InstaShare 2	InstaShare 2
Account management	AMS	AMS	AMS
UI resolution	4K UHD	4K UHD	4K UHD

Accessories

RS-232 cable	1 (5.9 ft | 1.8 m)	1 (5.9 ft | 1.8 m)	1 (5.9 ft | 1.8 m)
Quick start guide	In box	In box	In box
Remote control	1	1	1
User manual	Online	Online	Online
Box	BenQ designed	BenQ designed	BenQ designed
Cables	1 × HDMI (4.9 ft | 1.5 m), 1 × RS-232 (5.9 ft | 1.8 m)	1 × HDMI (4.9 ft | 1.5 m), 1 × RS-232 (5.9 ft | 1.8 m)	1 × HDMI (4.9 ft | 1.5 m), 1 × RS-232 (5.9 ft | 1.8 m)
On-screen menu languages	28L (AR, CS, DA, DE, EL, EN, ES-ES, FA, FI, FR, HE, HU, ID, IT, JA, KO, NB, NL, PL, PT-BR, RO, RU, SV, TH, TR, VI, ZH-CN, ZH-TW)	28L (AR, CS, DA, DE, EL, EN, ES-ES, FA, FI, FR, HE, HU, ID, IT, JA, KO, NB, NL, PL, PT-BR, RO, RU, SV, TH, TR, VI, ZH-CN, ZH-TW)	28L (AR, CS, DA, DE, EL, EN, ES-ES, FA, FI, FR, HE, HU, ID, IT, JA, KO, NB, NL, PL, PT-BR, RO, RU, SV, TH, TR, VI, ZH-CN, ZH-TW)

OSD

On-screen menu	BenQ customized	BenQ customized	BenQ customized

Feature

Sharpness enhancement	Yes	Yes	Yes
CEC control	Yes	Yes	Yes
Real-time clock	Yes	Yes	Yes
Firmware updates	USB, OTA	USB, OTA	USB, OTA
Freeze and blank screen	Yes	Yes	Yes
Temperature sensor	1	1	1
Screen finish	Matte	Matte	Matte

Teach
Your Way