

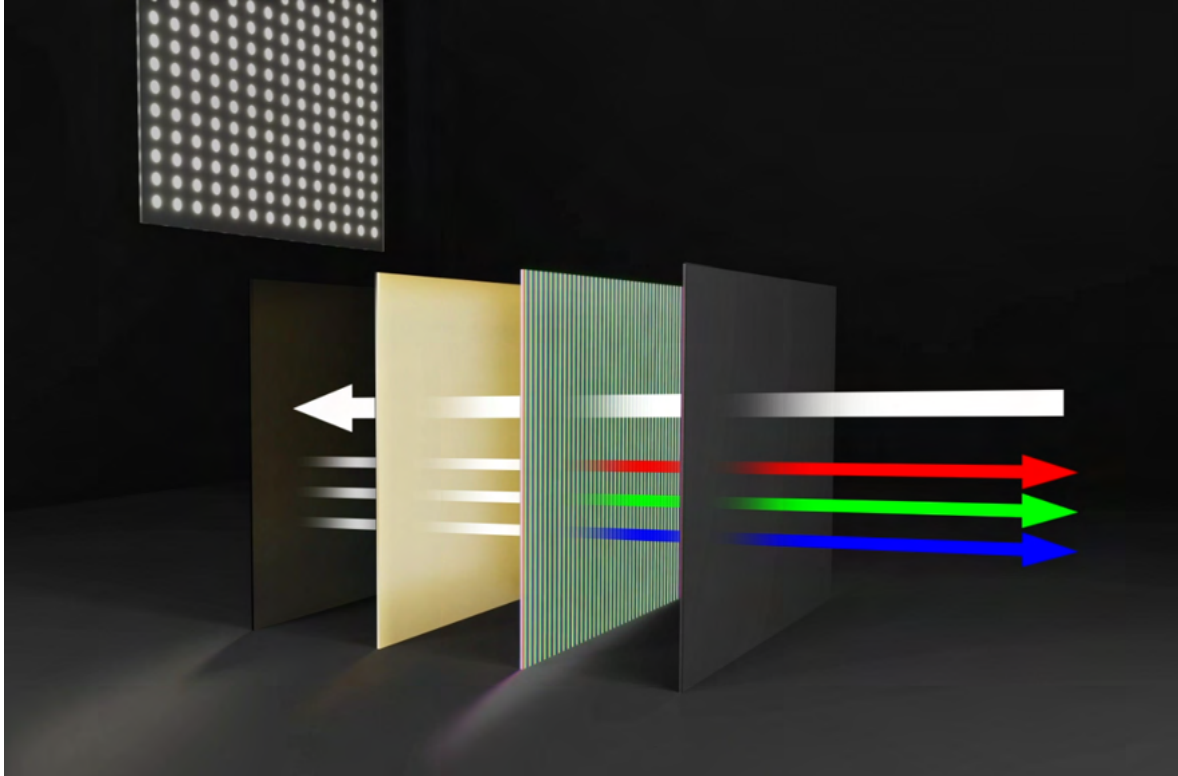
# HANNspree

Powered by HannStar



ecoVISION Paper Display™  
Perfect for Outdoor Use

# What is ecoVISION Paper Display™ ?



Great Visibility  
In Sunlight



Advanced  
Energy Efficiency



All-weather  
Durability



Smooth  
Video Playback



16.7M  
Display Colours



Sleek,  
Lightweight Design

The ecoVISION Paper Display, perfect for outdoor use, represents a new generation of LCD technology. It transforms sunlight into an illumination solution using Argentum Birefringence™ technology, which provides maximum sunlight visibility with minimal energy consumption—up to 80% less power than a conventional LED-backlit panel—resulting in lower operating costs and environmental impact.

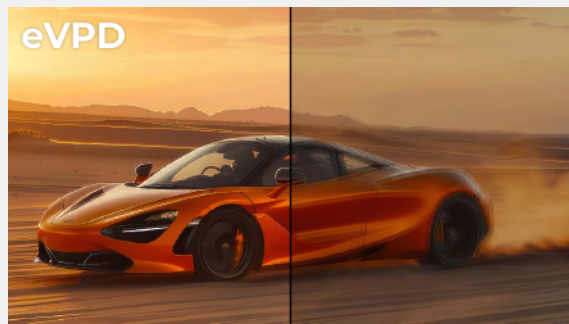
In addition to its energy-saving benefits, ecoVISION Paper Display technology combines dynamic, 16.7 million full-color performance with high durability and reliability. This makes it ideal for delivering vibrant, media-rich messages around the clock in harsh outdoor environments, making it a perfect solution for outdoor digital signage.



# Benefits of ecoVISION Paper Display™ (eVPD)

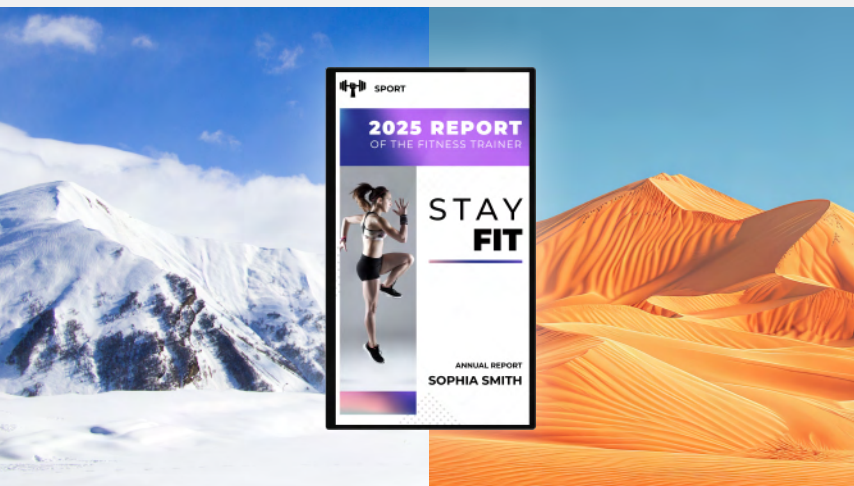
## Superior Sunlight Readability

Utilizes ambient light to illuminate the display, enabling excellent 20:1 ambient contrast ratio (ACR) for great visibility in sunlight .



## Dynamic Multimedia

Fast 60Hz refresh rate enables smooth video playback, offering rich media content with zero lag or ghosting.



## All-Weather Durability

Built to withstand all weather conditions, with a wide operating temperature range (-20°C to 60°C) and IP65 water and dust resistance.



## Energy Efficiency

Uses up to 80% less power than a traditional LED-backlit panel when fully utilizing ambient light reflection.



## ecoVISION Paper Display™ Solution

You can reduce your business' carbon footprint by more than 60%\* when switching out your conventional LCDs for the ecoVISION Paper Display. Its excellent sunlight visibility, high durability, ultra-low power consumption, true 8-bit (non-FRC), and dynamic features make it a perfect solution for the outdoor digital advertising to effectively captivate target audiences. Each ecoVISION Paper Display balances performance with reliability, leveraging over 20 years of experience in LCD design and manufacturing at HannStar Display Corporation.

\*Relating to Scope 2 carbon emissions from the purchase of electricity, and comparing the energy consumption of a 23.8" ecoVISION monitor with a conventional 23.8" LCD monitor.



# Outdoor Signage | 23.8" , 28"

Bend the Sunlight to Your Will.



**Advanced Energy Efficiency**



**Glare-free in Direct Sunlight**



**Optional Backlight for Low Light Conditions**



**Smooth Video Playback**

With its glare-free, ambient light reflection technology, ecoVISION signage is perfect for outdoor use. Whereas traditional LED-backlit displays have to constantly fight the sunlight, emitting brighter light in brighter surroundings and using more electricity as a result, the ecoVISION display works in harmony with sunlight and all ambient light around it. It displays clear, high contrast text, as well as dynamic, full-colour multimedia content. It's sleek, lightweight design makes it suitable for mounting on walls or movable stands.



# Monitor | 14" , 23.8" , 28"

Up to 80% Less Power Consumption Than LCD.



**Suitable for Sensitive Eyes**



**Glare-free in Direct Sunlight**

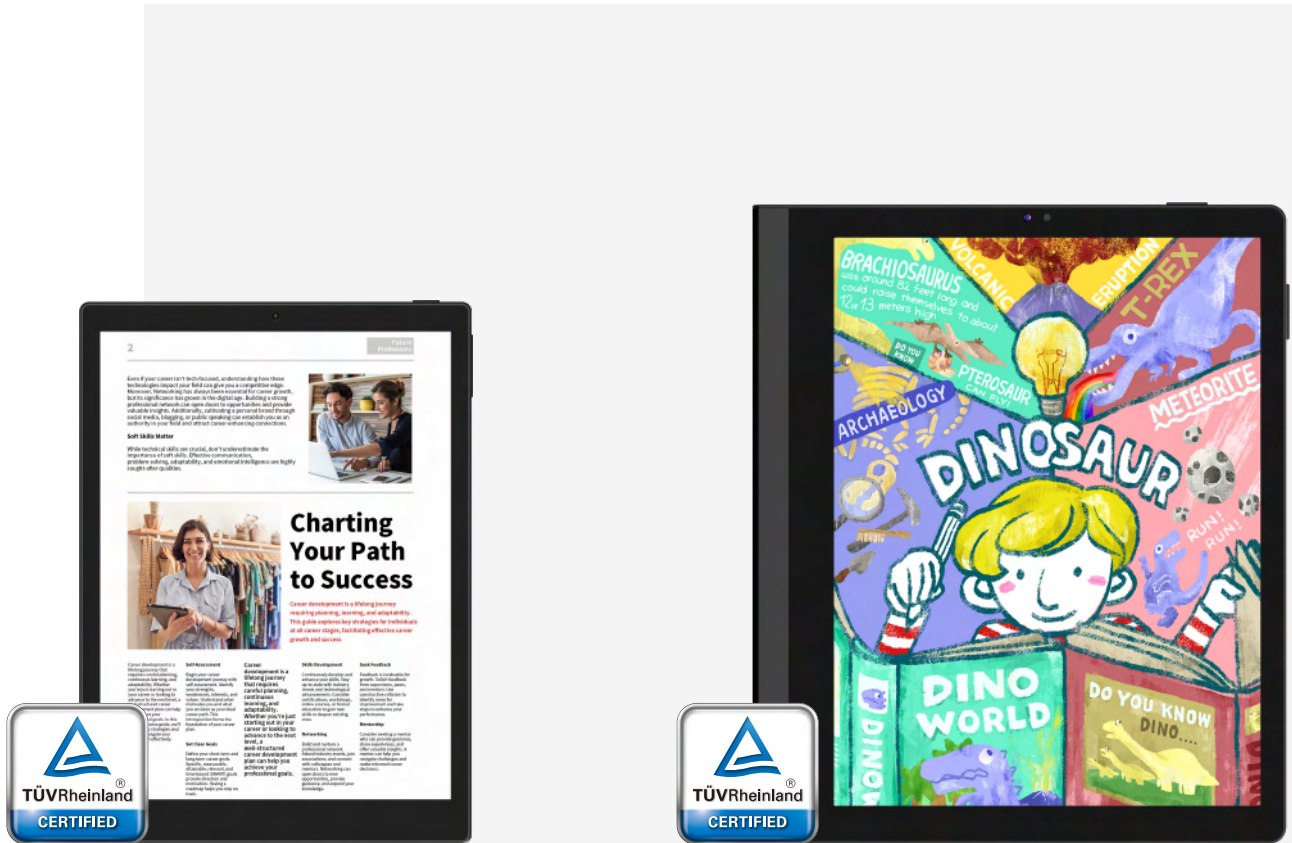


**Advanced Energy Efficiency**



**Paper-like Display**

ecoVISION Monitors set a new standard for energy efficiency and eye comfort. They consume up to 80% less electricity than traditional LCD monitors when fully utilizing ambient light to illuminate the screen. In low-light surroundings, optional back lights can be activated and adjusted for optimum eye comfort. An ergonomic 4-in-1 stand allows the user to adjust their viewing angle for additional eye, neck, and back comfort.



# Reader Tablet | 7.8" , 10"

eReaders With Android Tablet Functionality.



**Suitable for Sensitive Eyes**



**TÜV Certified  
Paper-like Display**



**Recyclable Packaging**



**Sleek, Lightweight Design**

These next-generation e-readers operate on Android 14. Featuring the dynamic and full-colour ecoVISION Paper Display, they offer a natural reading and writing experience, as well as smooth video playback and gaming. Glare-free and readable in direct sunlight, they're perfect for outdoor, daytime use. Optional front lights can be activated in low-light surroundings.



# Public Space

## Harness the Power of Ambient Light.

Outdoor displays are great for catching people's attention, but they consume a lot of electricity. Thanks to the advanced energy efficiency of ecoVISION signage, you can still catch people's attention, while using up to 80% less electricity and requiring significantly less heat dissipation than LED back-lit displays. With its slim, light-weight design, ecoVISION signage can be mounted on walls or movable stands, taking your message to the people in the street.



# Work Space

## Health and Sustainability in the Office.

Screen time is the soul of the service economy. The more time spent working on screens, the more value gets created for customers. With their natural eye care features, ecoVISION monitors provide greater eye comfort, allowing for extended screen use with reduced eye irritation. Moreover, ecoVISION monitors uses less electricity than traditional LCD monitors, reducing operating expenses and Scope 2 carbon emissions.



# Play Space

Better educational experience for the next generation.

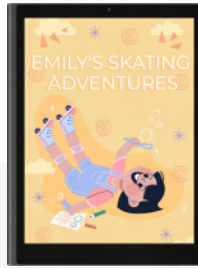


Children spend more and more time engaging with digital devices as they grow, and eyecare should be a top priority for any parent when choosing a device for their kids. True 8-bit, non-FRC, flicker-free, and zero blue light features of the ecoVISION Paper Display deliver eyecare benefits. Kids can enjoy a dynamic, full-colour multimedia experience within a paper-like medium that's suitable for reading and writing homework, watching cartoons, and playing video games.



<b>Product Name</b>	HannsNote2	
<b>Model Name</b>	SN10HR1B	
<b>Panel Spec</b>	<b>Display Size</b>	25.4cm / 10.0inch
	<b>Panel Type</b>	eVPD (TN, reflective)
	<b>Brightness</b>	NA (depends on environment light)
	<b>Contrast (Typical)</b>	20:1
	<b>Resolution (H x V)</b>	1200 × 1600 (200PPI)
	<b>Response Time</b>	5ms (typical)
	<b>View Angles LR,UD (CR&gt;2)</b>	120° / 120°
	<b>Refresh Rate</b>	60Hz
	<b>Display Colors</b>	16.7M
	<b>Touch Type</b>	10-touch-points and Stylus
	<b>Protocol</b>	USI 2.0
<b>M/B Spec</b>	<b>OS</b>	Android 13
	<b>CPU</b>	RK 3566
	<b>Wi-Fi</b>	2.4G + 5G (802.11 a/b/g/n/ac)
	<b>Bluetooth</b>	5.0
	<b>Storage</b>	4GB + 64GB
<b>Webcam Spec</b>	<b>Camera</b>	2MP (Front)
<b>Battery Spec</b>	<b>Battery</b>	Li-ion Battery 2200mAh
<b>Interface</b>	USB-C (Charging, data)	
<b>Operation Temperature</b>	0°C ~ 45°C	
<b>Physical</b>	<b>Dimension(W*D*H)</b>	184.4 × 221.5 × 4.9mm
	<b>Net Weight</b>	350g
<b>Certification</b>	GMS, CE, RoHS, NCC, BSMI, TUV Paper Like	

# ecoVISION eReader



Model Name		SN08HR1B	SN10HR3B
Panel Spec	Display Size	19.8cm / 7.8inch	25.4cm / 10.0inch
	Panel Type	eVPD (TN, reflective)	eVPD (TN, reflective)
	Brightness	NA (depends on environment light)	NA (depends on environment light)
	Contrast (Typical)	15:1	20:1
	Resolution (H x V)	768 × 1024 (164PPI)	1200 × 1600 (200PPI)
	Response Time	5ms (typical)	5ms (typical)
	View Angles LR,UD (CR>2)	120° / 120°	120° / 120°
	Refresh Rate	60Hz	60Hz
	Display Colors	16.7M	16.7M
	Touch Type	10-touch-points and Stylus	10-touch-points and Stylus
	Protocol	USI 2.0	USI 2.0
M/B Spec	OS	Android 14	Android 14
	CPU	MediaTek MT8786	MediaTek MT8786
	Wi-Fi	2.4G + 5G (802.11 a/b/g/n/ac)	2.4G + 5G (802.11 a/b/g/n/ac)
	Bluetooth	5.0	5.0
	Storage	4GB + 64GB	4GB + 64GB
Webcam Spec	Camera	5MP(Front) / 8MP(Rear)	5MP (Front) / 8MP(Rear)
Battery Spec	Battery	Li-on Battery 3100mAh	Li-on Battery 6000mAh
Interface		USB-C (Charging, data)	USB-C (Charging, data)
Operation Temperature		0°C ~ 45°C	0°C ~ 45°C
Physical	Dimension(W*D*H)	137.6 × 184.92 × 5.5mm	184.4 × 221.5 × 5.9mm
	Net Weight	270g	405g
Certification		GMS, CE, RoHS, NCC, BSMI	GMS, CE, RoHS, NCC, BSMI

# ecoVISION eReader



Model Name		SN08HD1B	SN10HD1B
Panel Spec	Display Size	19.8cm / 7.8inch	25.4cm / 10.0inch
	Panel Type	eVPD (TN, reflective)	eVPD (TN, reflective)
	Brightness	Deco Light 50nits	Deco Light 50nits
	Contrast (Typical)	15:1	20:1
	Resolution (H x V)	768 × 1024 (164PPI)	1200 × 1600 (200PPI)
	Response Time	5ms (typical)	5ms (typical)
	View Angles LR,UD (CR>2)	120° / 120°	120° / 120°
	Refresh Rate	60Hz	60Hz
	Display Colors	16.7M	16.7M
	Touch Type	10-touch-points and Stylus	10-touch-points and Stylus
	Protocol	USI 2.0	USI 2.0
M/B Spec	OS	Android 14	Android 14
	CPU	MediaTek MT 8781	MediaTek MT 8781
	Wi-Fi	2.4G + 5G (802.11 a/b/g/n/ac)	2.4G + 5G (802.11 a/b/g/n/ac)
	Bluetooth	5.0	5.2
	Storage	4GB + 64GB	6G + 128G
Webcam Spec	Camera	5MP(Front) / 8MP(Rear)	5MP(Front) / 5MP(Rear)
Battery Spec	Battery	Li-ion Battery 3000mAh	Li-ion Battery 4000mAh
Interface		USB-C (Charging, data)	USB-C (Charging, data) TF card support to 512GB
Operation Temperature		0°C ~ 45°C	0°C ~ 45°C
Physical	Dimension(W*D*H)	134.1 × 185.1 × 6.6mm	190.85 × 228.92 × 6.85mm
	Net Weight	300g	380g
Certification		GMS, CE, RoHS, NCC, BSMI	GMS, CE, RoHS, NCC, BSMI

# ecoVISION Monitor



<b>Model Name</b>	HP141CUB
<b>Display Size</b>	35.56cm / 14.0inch
<b>Panel Type</b>	eVPD (TN, reflective)
<b>Brightness</b>	NA (depends on environment light)
<b>Contrast (Typical)</b>	38:1
<b>Resolution (H x V)</b>	1920 × 1200 (162PPI)
<b>Panel Spec</b>	
<b>Response Time</b>	5ms (typical)
<b>View Angles LR,UD (CR&gt;2)</b>	120° / 110°
<b>Refresh Rate</b>	60Hz
<b>Display Colors</b>	16.7M
<b>Touch Type</b>	No
<b>Interface</b>	Mini HDMI, USB-C (full funtion)
<b>Audio</b>	
<b>Earphone</b>	Yes
<b>Speaker</b>	1.5W*2
<b>Operation Temperature</b>	0°C ~ 50°C
<b>Physical</b>	
<b>Dimension(W*D*H)</b>	312.5 × 221.6 × 5mm
<b>Dimension (with stand)</b>	N/A
<b>Net Weight</b>	780g
<b>Tilt</b>	N/A
<b>High Adjustable Arm</b>	N/A
<b>Swivel</b>	N/A
<b>Pivot</b>	N/A
<b>VESA Mount</b>	N/A
<b>Certification</b>	CE, RoHS, HDMI

# ecoVISION Monitor



Model Name	HR241CJB	HV241HTB	
Panel Spec	<b>Display Size</b>	60.45cm / 23.8inch	60.45cm / 23.8inch
	<b>Panel Type</b>	eVPD (TN, reflective)	eVPD (TN, transfective)
	<b>Brightness</b>	NA (depends on environment light)	Backlight 50nits
	<b>Contrast (Typical)</b>	20:1	22:1 (Reflectance) 36:1 (Transmittance)
	<b>Resolution (H x V)</b>	1920 × 1080 (93PPI)	1920 × 1080 (93PPI)
	<b>Response Time</b>	5ms (typical)	6ms (typical) / 8ms (max)
	<b>View Angles LR,UD (CR&gt;2)</b>	120° / 110°	120° / 110°
	<b>Refresh Rate</b>	60Hz	100Hz
	<b>Display Colors</b>	16.7M	16.7M
<b>Interface</b>	Mini HDMI, USB-C (full function)	VGA, HDMI 2.0, DP 1.4	
<b>Audio</b>	<b>Earphone</b>	Yes	Yes
	<b>Speaker</b>	1.5W*2	2W*2
<b>Operation Temperature</b>	-20°C ~ 60°C	0°C ~ 50°C	
<b>Physical</b>	<b>Dimension(W*D*H)</b>	543.2 × 392.5 × 9.3mm	540 × 318 × 38mm
	<b>Dimension (with stand)</b>	543.2 × 540 × 9.3mm	540 × 395 × 38mm
	<b>Net Weight</b>	3.9kg	2.8kg
	<b>Tilt</b>	-5°~15°	-5°~15°
	<b>High Adjustable Arm</b>	Yes (lift range: 150mm)	Yes (lift range: 82mm)
	<b>Swivel</b>	R: 30°, L: 30°	R: 45°, L: 45°
	<b>Pivot</b>	Yes (R: 90°)	Yes (R: 90°)
	<b>VESA Mount</b>	75 × 75	75 × 75
<b>Power Consumption</b>	Power on: 3.9w Standby: <0.5w	Backlight off: 4.4w Backlight on: 15.5w, max.: <27w Standby: <0.5w	
<b>Certification</b>	CE, RoHS, HDMI	CE, RoHS, HDMI	

# ecoVISION Signage



Model Name	SD24AR1B	SD24AR1W 80-PS000001-G010/80-PS000001-G000	
Panel Spec	Display Size	60.45cm / 23.8inch	60.45cm / 23.8inch
	Panel Type	eVPD (TN, reflective)	eVPD (TN, reflective)
	Brightness	NA (depends on environment light)	NA (depends on environment light)
	Contrast (Typical)	20:1	20:1
	Resolution (H x V)	1920 × 1080 (93PPI)	1920 × 1080 (93PPI)
	Response Time	5ms (typical)	5ms (typical)
	View Angles LR,UD (CR>2)	120° / 110°	120° / 110°
	Refresh Rate	60Hz	60Hz
	Display Colors	16.7M	16.7M
	Touch Type	No	No
M/B Spec	OS	Android 11	Android 11
	CPU	RK 3566	RK 3566
	Wi-Fi	WIFI 6, 802.11 a/b/g/n/ac	WIFI 6, 802.11 a/b/g/n/ac
	Bluetooth	5.0	5.0
	Storage	4GB + 64GB	4GB + 64GB
	G-sensor	Yes	Yes
Interface / Connector	I/O	HDMI, DP, USB-C, USB-A*2, RJ 45	HDMI, USB-A*2, TF Card, RJ 45
Audio	Earphone	Yes	Yes
	Speaker	4Ω / 2W*2	4Ω / 2W*2
Operation Temperature		-20°C ~ 60°C	-20°C ~ 60°C
Battery		NA	Li-ion Battery 9600mAh / 12.8V
Physical	Dimension(W*D*H)	638 × 316 × 10.5mm	638 × 316 × 10.5mm (signage) 30 × 30 × 100cm (movable stand)
	Net Weight	6 kg	6kg (Signage) / 4kg (movable stand)
	Tilt	NA	up and down 20°
	Adjustable Stand	NA	up and down 18mm
	Pivot	NA	Yes (R: 90°)
	Moveable stand	NA	Yes
Certification		CE, RoHS, HDMI	CE, RoHS, HDMI



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