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Interactive Smart Panel H16S Series



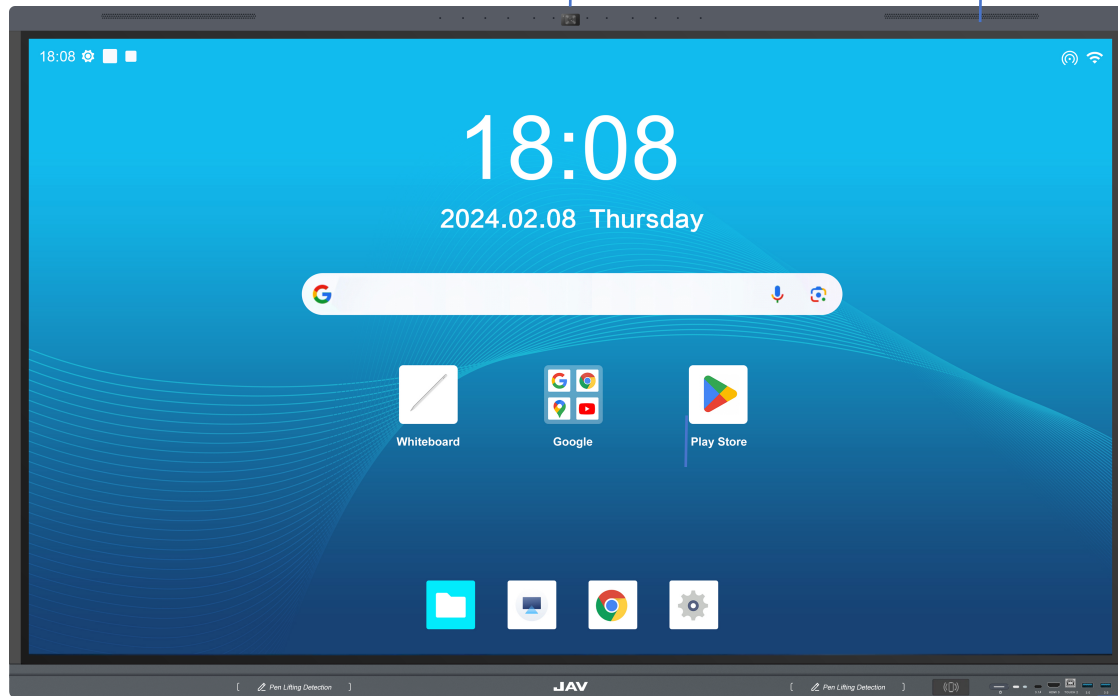
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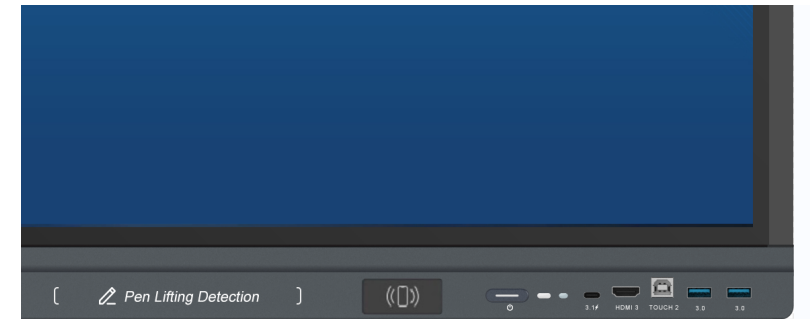
Built-in 48MP camera+8 array mic.

2.2 channel Top speaker



Magnetic slot for pen
Build in detection for lifting pen

NFC



Button, R.C, Light Sense

Appearance

FRONT



SIDE



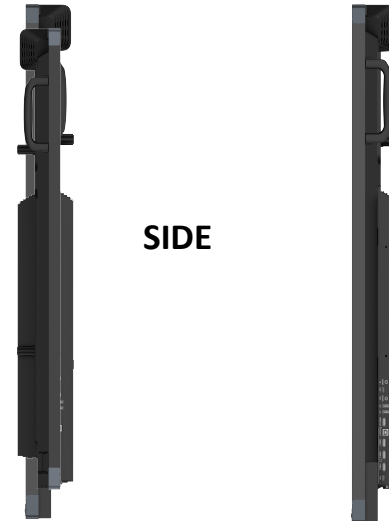
BACK



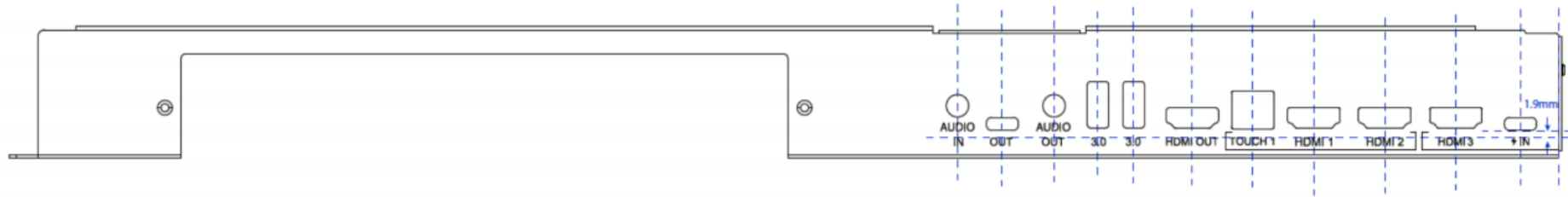
UP AND DOWN



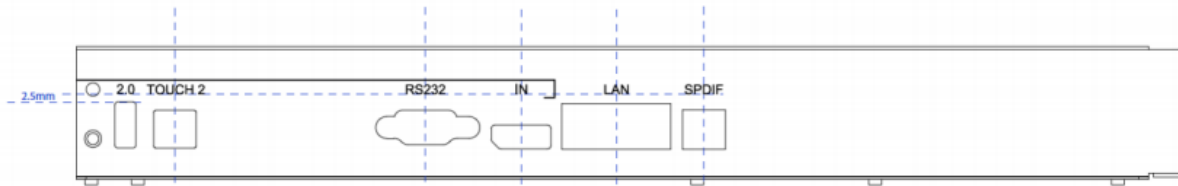
SIDE



Side terminal interface



Bottom terminal interface



- ◆ Size: 65/75/86
- ◆ Android 13; All-new OS 5.0
- ◆ Supports Google EDLA certification (paid certification, optional)
- ◆ High-color-accuracy & high-brightness mode
- ◆ Zero-gap, 3mm anti-glare tempered glass
- ◆ 2.2-channel, Top-mounted speaker with aerial sound
- ◆ 52W speaker, 2 x 8W (high-frequency) + 2 x 18W (mid-low frequency)
- ◆ Built-in 48-megapixel camera & 8-array microphone
- ◆ High color gamut: 90% NTSC; Flicker-free; Hardware low blue light
- ◆ Infrared touch: 50-point touch, anti-palm touch, pressure writing.
- ◆ Supports sound source localization & intelligent auto-centering (performance upgrade).
- ◆ Smart Noise Reduction, Gain Management, Echo Elimination, and Reverberation Suppression
- ◆ Sensors: Ambient light, NFC, stylus detection function.
- ◆ Networking (Android & OPS), Gigabit network (dual network port).
- ◆ Dual USB Type-C IN ports (front & on-board).
- ◆ Full-featured Type-C, up to PD100W, network sharing, BYOM
- ◆ Multi-screen display: HDMI OUT & USB Type-C OUT with DP IN port.
- ◆ SW13F-antibacterial pen, big & small pen tips.
- ◆ Detachable wireless module: S107B (WiFi 6, BT5.2)

- ◆ Supporting quick activation of the whiteboard or annotation upon lifting the pen.
- ◆ Supports high-brightness displays: 65": 350cd/m², 75" & 86": 400cd/m², with built-in ambient light detection for intelligent screen brightness adjustment, energy-saving, and eye protection
- ◆ Backlight features DC dimming technology, ensuring flicker-free photo and video capture to reduce eye fatigue during prolonged viewing, promoting eye health.
- ◆ Hardware support for low blue light, reducing harmful blue light emissions and improving viewer comfort.
- ◆ Achieving 90% NTSC color gamut standard for true color reproduction.
- ◆ 8-core CPU, 8-core GPU, 8 threads, 8nm process, 6 Tops AI computing power, and 8K hardware decoding.
- ◆ 16GB+256GB, Android 13, compatible with Windows system.
- ◆ 2 front USB 3.0 ports & 2 on-board USB 3.0 ports, supporting seamless channel switching
- ◆ Supports front & on-board full-featured USB Type-C IN (front Type-C supports up to PD100W).
- ◆ Supports on-board HDMI OUT & USB Type-C OUT, multi-screen display functions, flexible between duplicate and extended screens
- ◆ Supports wireless screen mirroring.
- ◆ Supports up to 50-point touch, with 1mm high-precision infrared touch technology, catering to the needs of multi-user interactive collaboration scenarios.
- ◆ 1mm low writing height, palm rejection, board eraser recognition, dual pens with dual colors, pressure-sensitive writing for a seamless interactive experience.

SPEC.	H16S	REMARK
Chipset	RK3588	
System	Android 13.0	
CPU	A76*4+A55*4	
GPU	Mali-G610 MC4	
RAM/ROM	16G+256G	
UI	4K	
Network	Yes,Android/PC:1000M	
Speakers	2*8W (front sound) + 2*18W (top sound)	2.2 chanel
Wireless solution	Pluggable wireless module: SI07B (WiFi 6)	SI07E (Optional)
Light-sensitive	Yes	
Remote	Yes	Optional
NFC	Yes	Built-in
Stylus Detection	Yes	
Input voltage	90-264V	

I/O Interface and function

ITEM	H16S	NOTES
USB Type-C IN	1 (Rear)+1 (Front)	Video,Audio,USB 3.0,Touch, LAN Network Sharing(1 OOm); Front:Up to PD1 OOW (PD65W when OPS is plugged in) Rear:PD15W
USB Type-C OUT	1 (Rear)	4K@60Hz, Type-C OUT & HDMI OUT Combination for Multi-Screen Display
HDMI IN	3(Rear)+1 (Front)	4K@60Hz, HDCP 2.3, CEC
HDMI OUT	1 (Rear)	4k@60Hz
DP IN	1 (Rear)	4k30hz HDCP1 .4&2.3
AUDIO IN	1 (Rear)	
AUDIO OUT	1 (Rear)	
SPDIF OUT	1 (Rear)	
USB 2.0	1 (Rear)	
USB 3.0	1 (Rear)+1 (Front)	Seamless Channel Switching
TOUCH OUT	2(Rear)+1 (Front)	Version 2.0, supporting wired network sharing at 100 Mbps
RS232	1 (Rear)	1
LAN(RJ45)	2 (Rear)	Both channels support multiple speeds (10 Mbps, 100 Mbps, 1000 Mbps)The device supports network convergence, allowing the wired network from Android to be shared with OPS, and both connections are Gigabit Ethernet

ITEM	H16S	NOTES
Touch type	IR	
Bonding Technology	Zero bonding	
Touch Accuracy	±1	
Touch Points	10 writing, 50 touch points (Android 50, Windows 50)	
The smallest recognizable object	2mm	
Writing Height	1mm	
Palm Rejection	YES	
Glass Surface Technology	AG (Anti-Glare) Coating - Sprayed	
Glass Thickness	3mm	
Multi-Level Recognition	4	Seamless Channel Switching
Passive Pen	SW13F*2	Version 2.0, supporting wired network sharing at 100 Mbps
Pressure-sensitive Writing with Passive Pen	YES	1

ITEM	H16S	NOTES
Sizes	65/75/86	
Type	VA	
Haze	25%	
Resolutions	3840(H) x 2160(V)	
Color gamut(Typ)	90%-NTSC	
Auto white balance	YES	OPTIONAL
High color accuracy	t-; E:::;2	OPTIONAL
Hardware low blue light	YES	
Normal Mode(typ)	65 : 330cd/m2; 75&86:370cd/m2	Equipped with Auto White Balance and High Color Accuracy
Bright Mode(typ)	65:360cd/m2; 75&86:400cd/m2;	Without Auto White Balance and High Color Accuracy

	ITEM	H16S	NOTES
Camera	Pixel	48MP	
	FOV	106°	H-FOV:98°
	3A function	AF/AE/AWB	Auto-focus, Aauto-exposure, Auto white balance
	Autoframing	YES	Cannot work simultaneously Enhanced user experience with response time <3s
	Speaker Tracking	YES	
	Other functions	YES	Denoising, Anti-backlight, Wide Dynamic Range, Electronic PTZ (Pan-Tilt-Zoom)
	4K android camera app	YES	Android camera for 4K photos and 4K video preview
Microphones	Quantity	8	
	Pickup range	10m	
	Pickup angle	0-180°	
	Intelligent algorithm	ANC;AGC;AEC;DER	Intelligent noise reduction Gain control Echo cancellation Reverberation suppression

Low Reflective Screen / Gloss-Free Disturbance

Upgraded Etched AG Glass for More Effective Reduction of Environmental Light Reflection Interference, Enhancing Display Clarity

—Eye Protection, Health Enhancement, and Improved User Eye Comfort

Effectively enhances the smoothness of the glass surface, improving the writing experience;

Possesses certain water contact angle parameters, improving fingerprint/dirt residue characteristics, making it easier to clean



Spray AG

The shadow of the window is clearly visible

Etched AG

Blurred window shadows

High-Brightness Display

The higher the overall brightness of the device, the more vibrant the visuals, with a high overall contrast that ensures uninterrupted viewing even in brightly lit indoor environments.

The new product is designed with a brightness of 400 nits (standard brightness mode—with automatic white balance & high color accuracy), meeting the requirements for clear display of visuals in high-light environments such as conference rooms and training rooms, without any compromise in viewing quality;

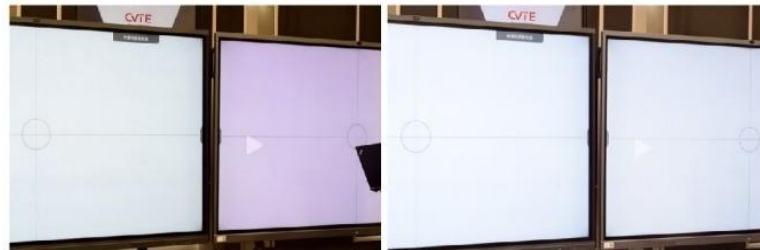
In high-brightness mode, it supports a maximum of 500 nits display, ensuring high contrast and clear image reproduction.



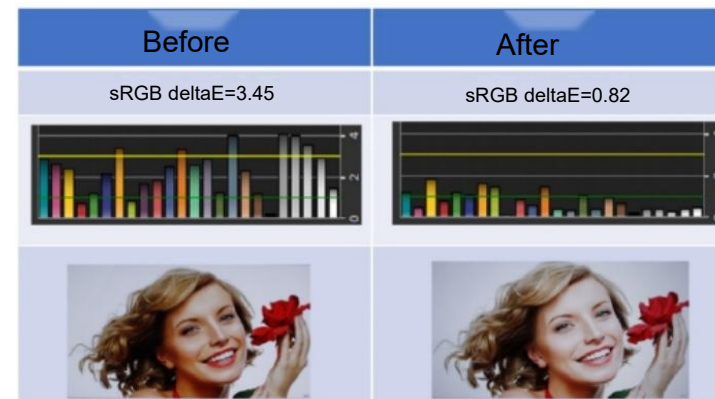
Automatic White Balance & High Color Accuracy

Utilizing proprietary algorithmic software, automatic white balance and high color accuracy calibration are performed on each individual product during production. This ensures that each product achieves color temperature accuracy closer to the white temperature requirements under white field conditions, facilitating precise color reproduction and ensuring consistency in color performance for every unit.

Upon color calibration completion, each product can achieve: $\Delta E_{2000} \leq 1.5$ (sRGB)---S Grade---Excellent
(A monitor with ΔE less than 1.5 can be considered virtually free of color deviation, a standard achieved only by a very few top-tier monitors).



Consistency in Color Performance Across Identical/Different Models or Within the Same/Different Batches, Achieved Through Calibration, Ensures Uniformity Across Multiple Screens.



Before and After Calibration, the Same Product Achieves Improved Color Reproduction, Rendering Colors More Accurate and True to Life.

Flicker-Free

Flicker-Free Technology eliminates screen flickering through specific backlight control to reduce visual fatigue.

Technical Details:

PWM Dimming: High-frequency screen flickering is visible when not set to maximum brightness.

DC Dimming: Eliminates screen flicker, significantly improving visual comfort. No flickering in photos/videos.

Our products can be TUV Rhein-land Flicker-Free certified.



For products that do not support DC dimming technology, although flicker may not be visible to the naked eye at non-maximum brightness settings, it may still be detected when captured by high-frequency cameras during photography or recording.

Full-Chain Low Writing Height (<1mm)

Level 0 low writing height, equipped with a low-profile touch frame, AI hyper-sensing algorithm (AIEA), and a low-profile device structure platform. This comprehensive low-profile design solution achieves a physical writing height of less than 1mm in mass production, closely resembling pen and paper writing.

- Easily write small characters with no pen skipping.
- Enable precise annotations to meet professional needs.
- Ideal for various professional scenarios.



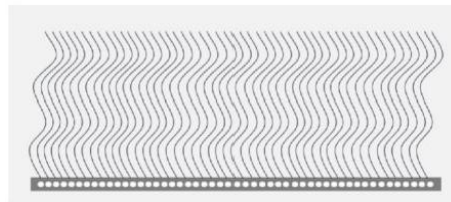
50-Point Touch / Pressure Writing / Palm Rejection / Four-Level Recognition

50-Point Touch: Supports up to 50-point touch, meeting the demands of multi-user interactive scenarios.

Pressure Writing: Utilizes in-house optimized algorithms to enable passive pen pressure writing, effectively replicating the writing experience with pen-like brushstroke effects. This improvement eliminates the need for special active pressure-sensitive pens often required in the industry.

Palm Rejection: Our proprietary AI algorithm overcomes accidental palm touches without the need for separate settings, ensuring a seamless writing experience.

Four-Level Recognition: Supports multi-level recognition of fine pen tip, broad pen tip, finger, and palm (fist/eraser), allowing rapid switching between different interaction modes.



50-Point touch



Palm Rejection



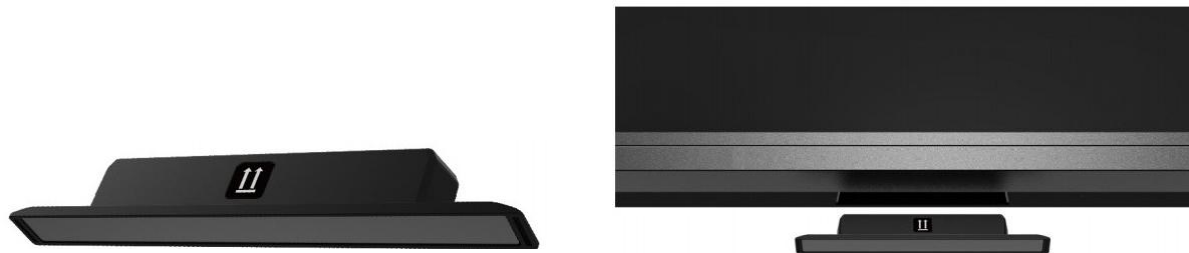
Palm Rejection



Four level recognition

Plug-and-Play Wireless Module

1. Plug-and-Play Wireless Module: The device's wireless functionality is implemented through a plug-and-play module solution that independently supports WiFi, hotspots, and Bluetooth features. This module can undergo individual certifications, meeting global wireless certification requirements such as SRRC, CE, FCC, and more.
2. Streamlined Certification: Products of the same or different series and varying sizes/models within the same series do not require separate wireless certifications, reducing certification timelines and costs.
3. Upgradable Wireless Module: The plug-and-play wireless technology is upgradeable, enabling iterative enhancements of the device's wireless functionality.
4. User-Friendly Configuration: Users can independently and quickly configure wireless modules based on their wireless feature requirements, achieving physical isolation of this functionality for enhanced efficiency and security.

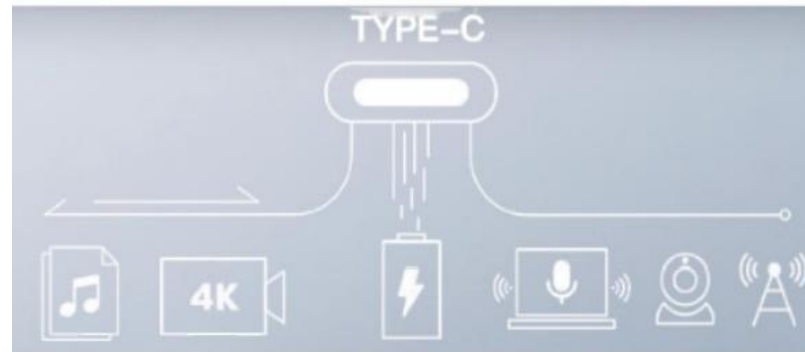


Continuous Wireless Module Upgrades: The device continually undergoes wireless module technology upgrades, including Wi-Fi 5/Wi-Fi 6&BT5.0/5.2 in production, with future iterations like Wi-Fi 6E on the horizon. These upgrades aim to provide users with more stable and faster connections, delivering a smooth and seamless experience by supporting higher-grade Wi-Fi standards, such as the 6GHz frequency band of the Wi-Fi 6 standard.

Full-Featured Type-C

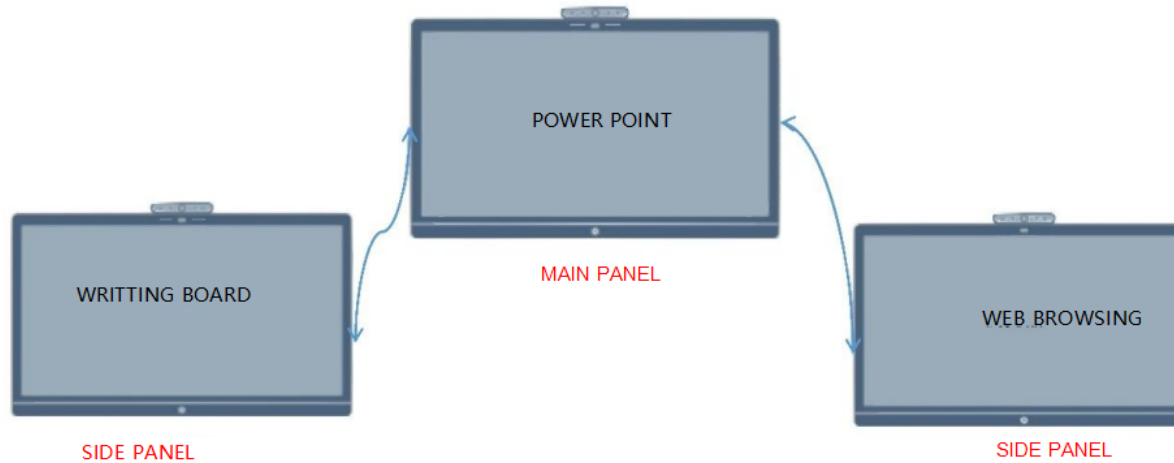
Full-Featured Type-C: A single interface that offers a wide range of functions, addressing the comprehensive needs of personal computers, including networking, audio-video transmission, charging, peripheral connectivity, and truly enabling BYOM (Bring Your Own Machine).

- Support for DP1.2 Protocol: Satisfies audio and video transmission requirements, supporting up to 4K@60Hz for synchronized audio and video.
- Support for PD Protocol: Can provide a maximum of PD100W power delivery.
- Support for USB Data Transfer: USB Type-C IN&OUT supports USB flash drives.
- Support for Wired BYOM (Bring Your Own Machine): Laptops can access and connect to the host machine's USB interface through TYPE-C, enabling access to built-in/external cameras, microphones, and speakers for quick meeting initiation.
- Support for Network Sharing: Laptops can access the host machine's wired network (100M) through TYPE-C.



Multi-Screen Display & Touch Separation

Through optimized chip-level code and hardware architecture design, the device achieves interconnection with secondary screens via the whole-machine HDMI OUT and Type-C OUT interfaces. Using display management applications, it enables triple-screen display (main screen + secondary screen 1 + secondary screen 2), where different screens can run applications independently, supporting both extended and mirrored displays. Additionally, each screen allows separate touch input operations without interference, expanding possibilities for diverse usage scenarios.



All-New 8-Core CPU Chipset Platform

The new product features a powerful configuration of 8GB RAM + 64GB/128GB storage and comes with a 64-bit Android 13 operating system.

It utilizes a high-performance chipset platform with an 8-core CPU, 8 threads, 8nm manufacturing process, 6Tops AI computing power, supports 8K encoding and decoding, delivering robust performance and exceptional computing power to effortlessly handle a wide range of usage scenarios.

Chipset Platform Performance Comparison:

In terms of Antutu Benchmark scores, the RK3588 achieves a score in the millions.

Platform	MT9950	A311D2	RK3588
RAM/ROM	4G+32G	4G+32G	8G+64G
UI	4K	4K	4K
Total	133236	222725	1001059
CPU	20872	60061	164990
GPU	31190	60021	152559
UX	46981	55557	131689
RAM	34193	47086	551821



THANKS

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