Interactive Nano blackboard

深圳市黑金工业制造有限公司

Shenzhen Heijin Industrial Manufacturing Co., Ltd

1. Touch screen Features

Screen share

Annotation

Insert teaching Tools
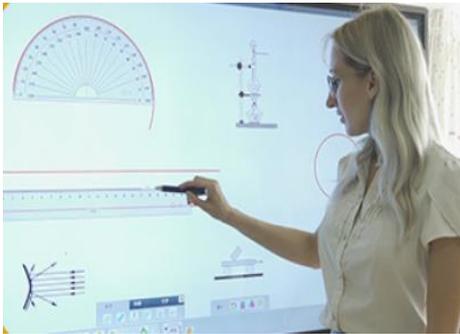
Two-color write same time
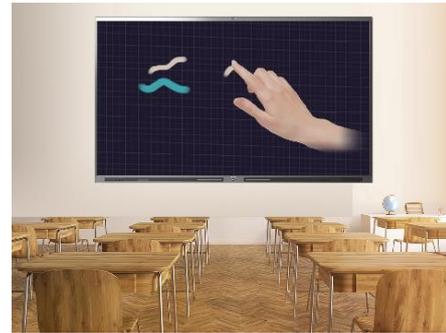
Camera&MIC

Fingerprint

Antibacterial screen

Hearing aid induction loop

Model	HJ-TD98NN Nano blackboard
Overall appearance (mm)	4651.7 x 1386.8 x96 mm
Combination method	Spliced blackboard
Display area (mm)	2158.8x1215mm
Brightness	400cd/㎡
Backlight type	DLED
Resolution	4K@60HZ （3840*2160）
Touch horizontal/Vertical resolution	32767*32767
Pixel pitch	0.5622 (W) x 0.5622(H)
Touch technology	High precision capacitive touch
Zoom	16：9
Display color	10Bit, 16.7M
Viewed angel	≥178°
Glass	4mm
Glass material	AG anti-glare glass, Mohs level 7
Dynamic contrast	5000:1
Static contrast	1200:1
Touch accuracy	1mm
Capacitance characteristics	Zero bonding
Touch points	20 point
Built-in speaker	15W*2 （can add 20w subwoofer）
Touch sensor response time	＜=8ms
Tracking rate	4m/s
Refresh rate	120 Hz
Built-in camera	13megapixels（optional）
EMMC Flash	16/32/64/128GB(optional)
2.Spliced blackboard Features	
Spliced blackboard	Blackboards on both sides support optional magnetic adsorption function Insert teaching Tools Two color write same time Fingerprint Antibacterial Screen

	Screen Share Annotation Hearing Aid Induction Loop
Blackboard writing	The touch panel + blackboard surface material can provide contrast-colored dust-free chalk, chalk and liquid marks, and they can be erased without using cleaning fluid every day
3. Android system	
Kernel version	Android 11.0（T982）
CPU	Quad-core ARM Cortex-A55 1.9Ghz
GPU	Mali-G52 MP2(2EE)
RAM	4GB /8GB
System memory	32GB/128GB
Front interface	USB TOUCH B 3.0x1 HDMI IN x1 Type-C x1 USB3.0x3
Side interface	HDMI IN 2.0 x2 USB-B TOUCH 3.0 x1 Type-C 3.0 x1 USB-A 2.0 x1 USB-A 3.0 x2 TF-card*1 DP x1
Bottom interface	RS232x1 Earphone x1 RJ45 IN x1 RJ45 OUTx1 SPDIF OUT x1 YPBPR x1 Audio in x1 Audio out x1/MIC INx1 VGA in x1 VGA Audio in x1 HDMI OUT x1
4.Wireless	
1. Version 802.11 a/b/g/n/ac 2. Working frequency dual 5G	
5.Bluetooth	
Version 5.0	
6.Power parameters	
power input	100-240V~50/60Hz
maximum power consumption	≤600W
Standby power consumption	≤1W
7.Envirnmental factor	
operating temperature	0℃~40℃

Operating humidity	≤ 80%RH
storage temperature	-10°C~60°C
Storage humidity	10%~80%RH
8. Packaging size	
Packing material	Honeycomb packing box
Main-touchscreen packing size	2450 *1560*310 mm
Sub-board	1370*1520*230 mm
Main-touchscreen	N.W: 98kg G.W:130kg
Sub-board	N.W: 26kg G.W:35kg
9. Accessories package	
Writing pens	x2
Power cord	x1
Remote control	x1
USB TOUCH cable	x1
HDMI cable	x1
Wall-mounted accessories	X1
10. OPS	
CPU	CPU: Intel Core i5 1145G7
Chipset	Intel HM170 Express
Ram	1 x 4GB DDR (Up to 16GB)
Storage	256 GB SSD (Up to 1TB)
Operation System	Windown 10 Pro
Connection Port	Connection port: HDMI 2.0 Output x 01 (Support 4K @60Hz); DP Port Output x 01; Microphone input x 01; Earphone output x 01; RJ-45 x 01; USB 3.0 x 04
10. Camera and mic	
	Sensor Size:1/3.06, Pixle size: 1.12x1.12um (13Mp pixel) Working current 300-450mA, Working voltage 5V, Working current 300-450mA Interface type usb 2.0
	video format MJPG: Resolution listMJPG: 15fps@3840x3104 30fps@3840x2160 2560x1440 1920x1080 1280x720 960x540 640x360 YUY2: 1fps@3840x3104 3840X2610 2560x1440 5fps@1920x1080 10fps@1280x720 20fps@960x540

	30fps@640x360
	Microphone　　8mic max length 8m, Mic board size 130x6mm, Mic pitch 40mm
	AI Algorithm Supports Echo Can Lens Specifications Field of View 4:3 D111.1 H86.5 V74.7 16:9 D99.1 H86.5 V52 Lens size M6.8*p0.25 TTL 5.12MM Effective focal length 2.262mm F/NO（INFINITE）　2.2±5% TV distortion
	Focus speed N/A
	Connection port: HDMI 2.0 Output x 01 (Support 4K @60Hz); DP Port Output x 01; Microphone input x 01; Earphone output x 01; RJ-45 x 01; USB 3.0 x 04

11. Stand

	Rack type: mobile TV stand, interactive screen stand, mobile lcd screen stand,...
	+ Bracket suitable for 98 inch LCD monitor. + Color: SPCC iron with black powder coating, plastic panel + Load: 150kg + Material: Super smooth powder-coated SPCC steel + Move easily with 4 wheels, fixed with lock + Easy, quick and convenient installation

Wifi Exstender BenQ InstaShow WDC10

	+ Support Platform Windows, MAC, Chrome. Any OS supports HDMI standard 1.4
	Video Outputs HDMI 1.4, comply with HDCP, Frame Rate Up to 30 fps depending on environment + Output Resolution 800 x 600, 1280x720 (720P),1024 x 768 (XGA),1280 x 768,1280x800(WXGA),1280 x 1024,1280 x 960,1360 x 768,1440 x 900,1400 x 1050,1680 x 1050, 1920x1080 (1080p) + Input Resolution Up to 1920x1080, kết nối tối đa 16 PC Audio Stereo, Radio quality 16 bits 48KHz Wireless IEEE 802.11ac, 5GHz, 2T2R Data Rate Wireless Up to 400Mbps + Authentication Protocol WPA2 (WPA2-PSK (Pre- Shared key) / WPA2-Enterprise) bảo mật 128 bit Reach Max. 8m between InstaShow Button and InstaShow Host USB Power Cable x1 (150cm, USB Type A 3.0, micro USB)

Other Spec

	4K UHD writing resolution, slender strokes + High-performance writing software, supports single-point and multi-point writing, increases pen writing effect, etc., supports whiteboard to insert photos, add pages, scroll the board with gestures pointing, zooming in, zooming out and roaming, scanning code sharing, any channel can be annotated in any interface feature + AG explosion-proof anti-glare tempered glass, Mohs hardness level 7, safe and secure for a better

writing experience

+ Wireless mobile device screen projection, support multi-channel screen projection, mirroring control, remote snapshot, video, music, document sharing, screenshot, wireless remote control, secret spot projection and other functions

+ Sidebar buttons, gestures to call up small window functions: voting, timer, screen capture, child lock, screen recording, photo capture, touch, smart eye protection, etc. , and touch control switches can freely switch anti-virus software, copyrighted windows software and teacher support software system.

Print Screen function: Take a snapshot of the content of the writing area and save directly to the writing area.

- Screenshot function: Capture the selected area and save directly to the computer or writing area

- Cutout function: Draw a closed line, cut out the content of this closed line and insert it into the writing area

- Split screen function: Provides splitting of at least 4 screens for simultaneous use, supports recording, annotating and deleting on each split screen independently

- There are 9 functions in Index, including add page, delete page, copy page, cut page, paste page, copy page, delete page, delete page, delete blank, lock page.

- Lock Screen function: Locks the entire computer interface to prevent misuse; Click the Close button at the bottom right to exit the lock screen.

- Infrared touch technology, no light interference, no induction height, multi-touch 20 points with Windows/ 40 points with Android.

- Expanded function can connect to webcam to capture images for teaching applications.

- Browser: supports dragging text to search information directly from the internet in the software. Support full screen mode functions/go to previous/next web page and screen clipping to the software

- Supports displaying animals and biology in 3D models with 3D view with 4 arbitrary viewing angles/rotations

- Supports taking screenshots in 3D view and transferring to the software

- Supports handwriting recognition of English

- Real-time interaction and writing speed without lag

- Whiteboard/Interactive mode: one button to change these two modes

- Supports floating toolbars to help adjust the screen, record images, lights, insert text and data.

- Allows direct dragging of images, videos, formulas, charts, pie charts, etc. go to the board and drag these multimedia resources in original format, unlimited copy; Supports dividing tables, increasing/decreasing rows/columns randomly

- Provides a player that supports playing video clips, taking snapshots, adjusting speed and annotations when playing videos

- Provide a toolbox combined with common tools so teachers can customize their operations

- Supports Annotation and Annotation Mode across all apps. You can move all your annotations and save it

- Supports Shape Recognition including lines, arrows, circles, ellipses, pentagons, triangles and up to six-sided shapes

- Supports 3D panoramic cube preview and using effects to open

	- Animation: supports setting animation effects, page turning effects
	- Supports recording all, part or specified part on the screen. Save in many formats like mp4/avi/wmv.
	- Supports selecting video device type in camera recording mode. Has a full screen camera view and allows adjusting the size of the camera view and moving it
	- Automatically ask to save files after random shutdown
	- Supports print preview and allows printing entire pages or selected areas

Product View