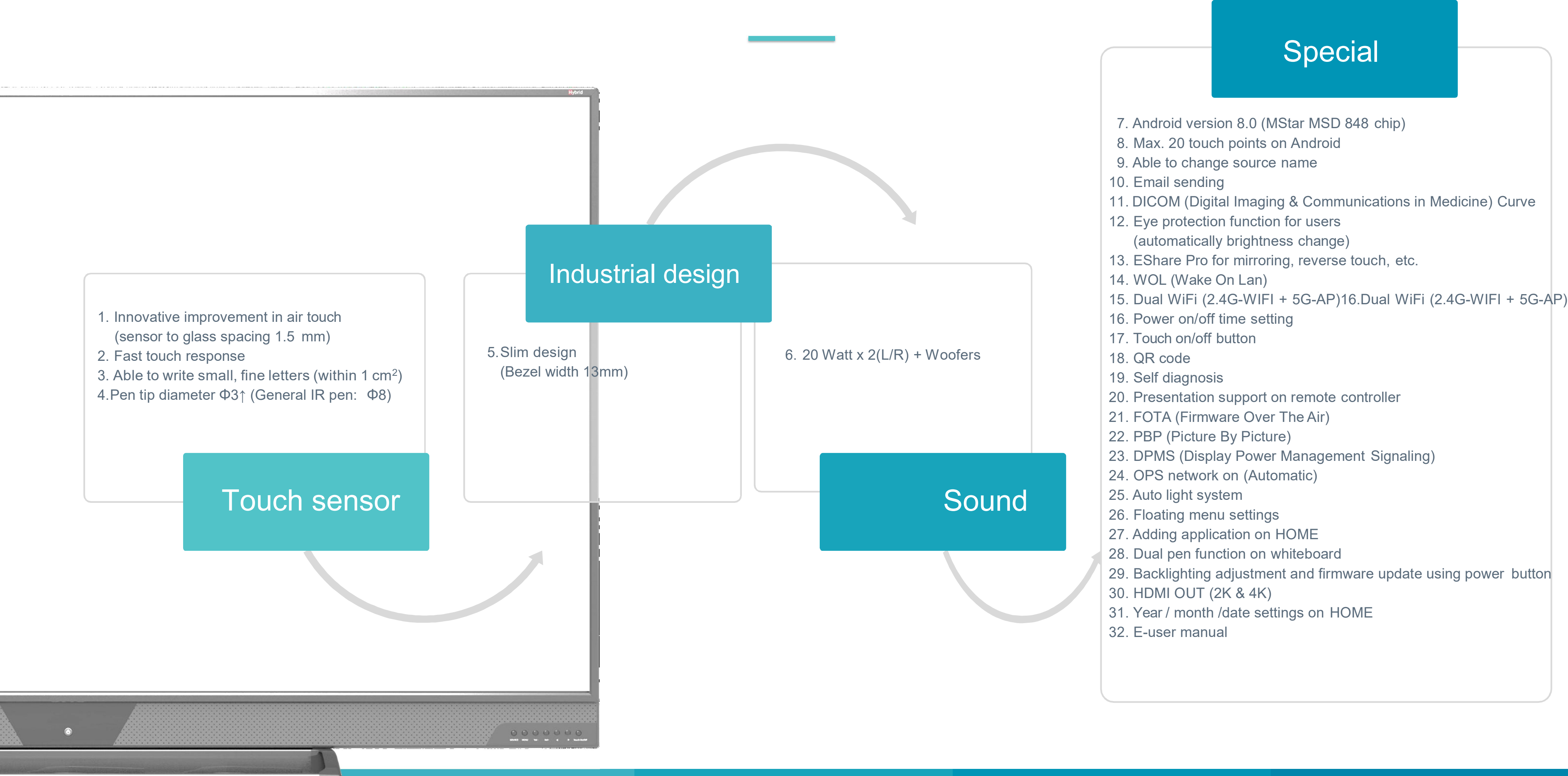


ULTRA SLIM IR (8200 series) Introduction



AHA ULTRA SLIM IR (8200 series) main 32 features



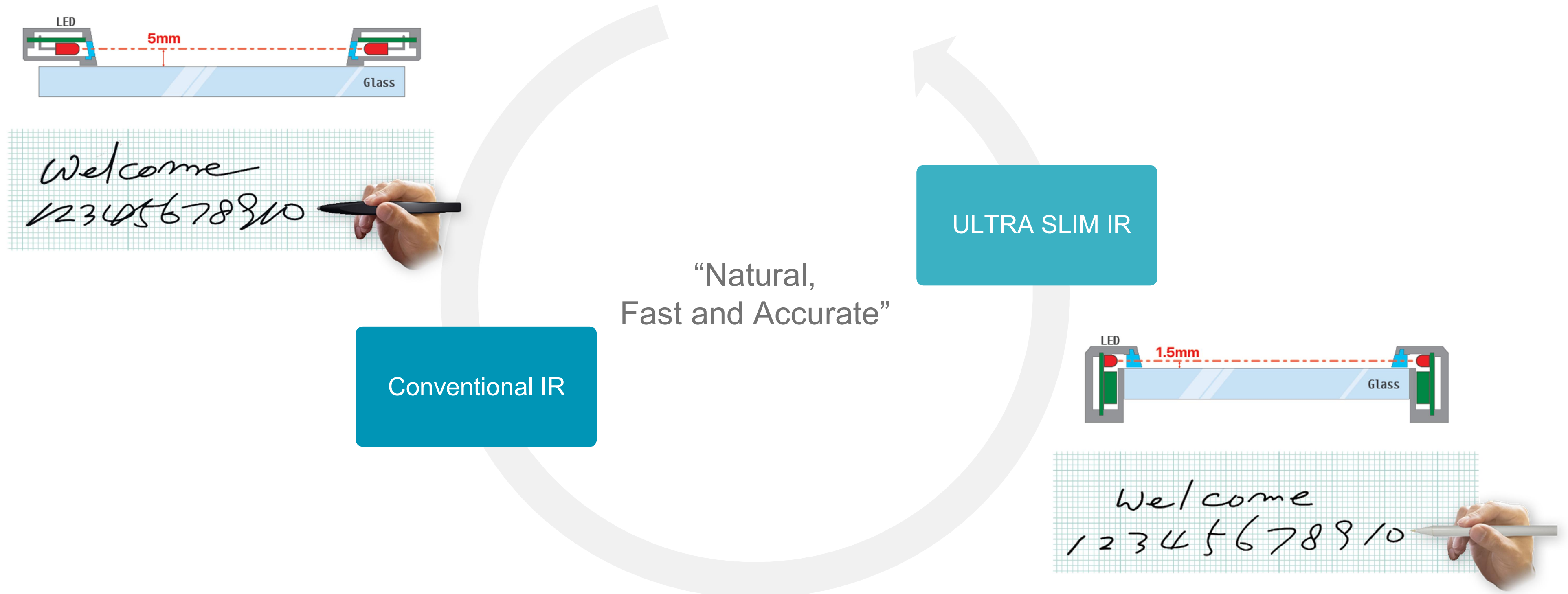
Touch sensor

Superior touch performance

“Natural, Fast and Accurate”

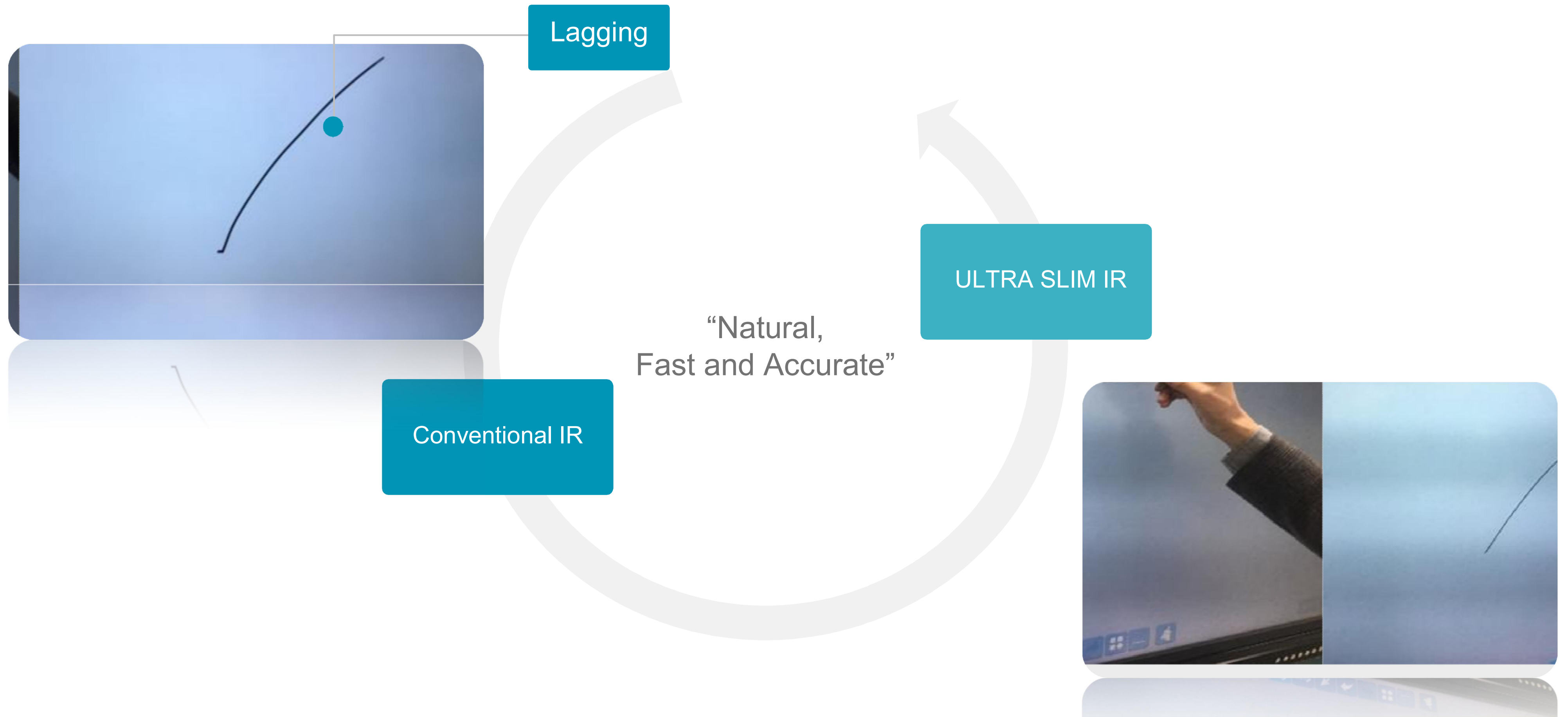
Innovative improvement in air touch

Not only reducing bezel width from front view, but also dramatically reducing air touch more than 70%
(sensor to glass : from 5 mm to 1.5 mm), it provides superior touch performance and experiences of smooth pen-on-paper writing without script-lag



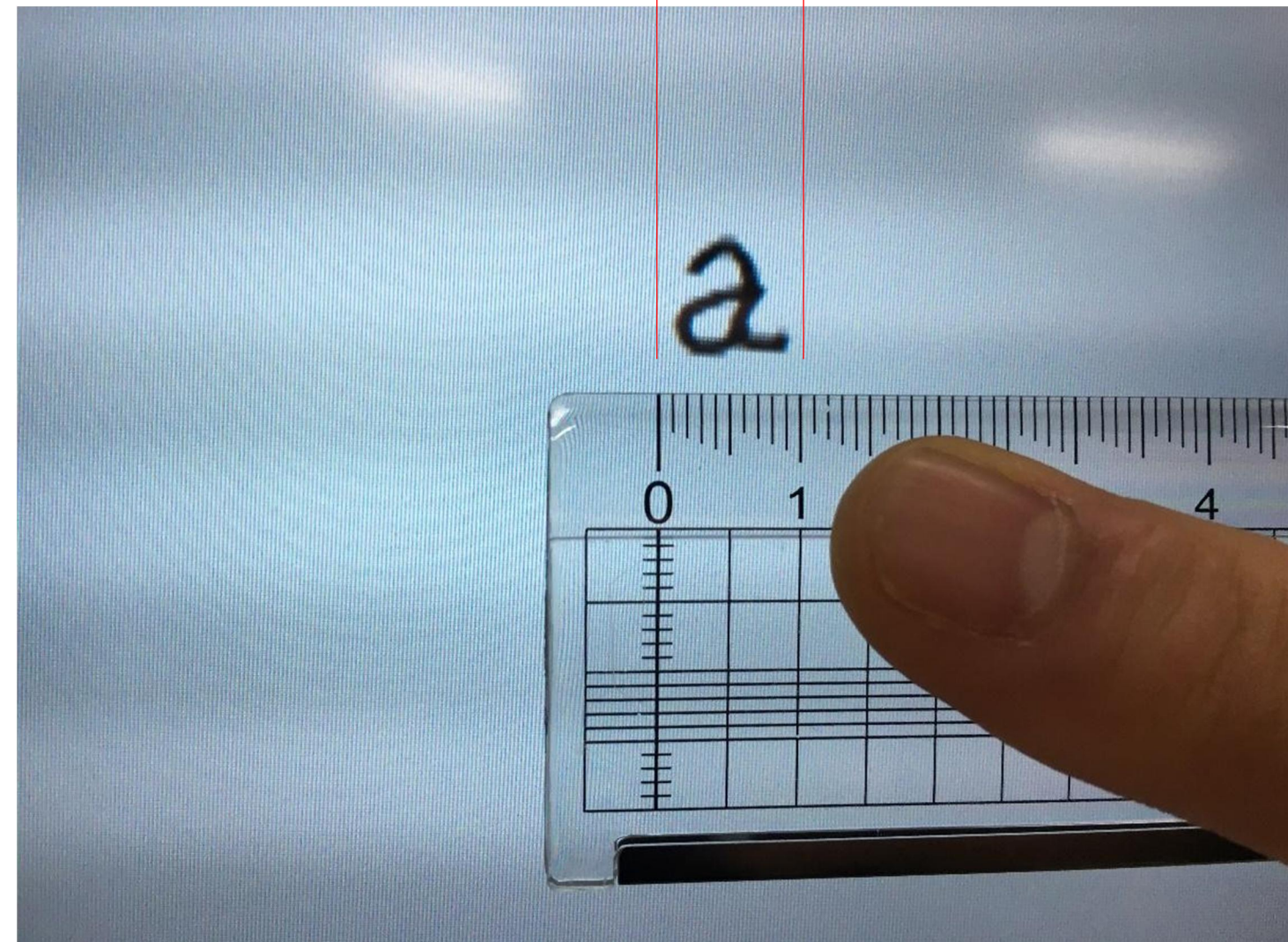
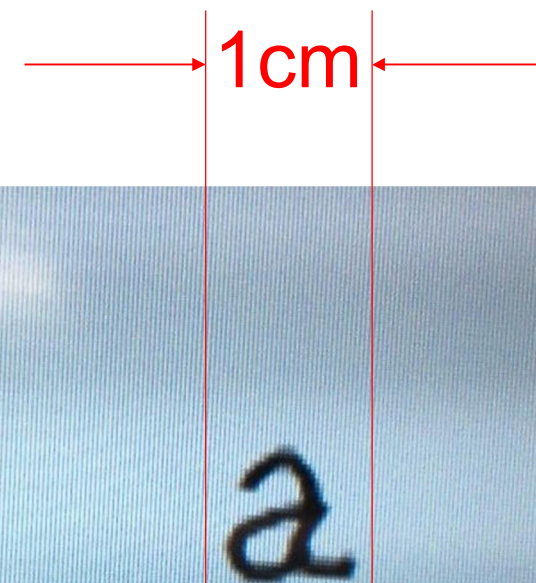
Fast touch response

Fast touch response and speed (does not generate Time Lagging issues as seen in conventional IR)



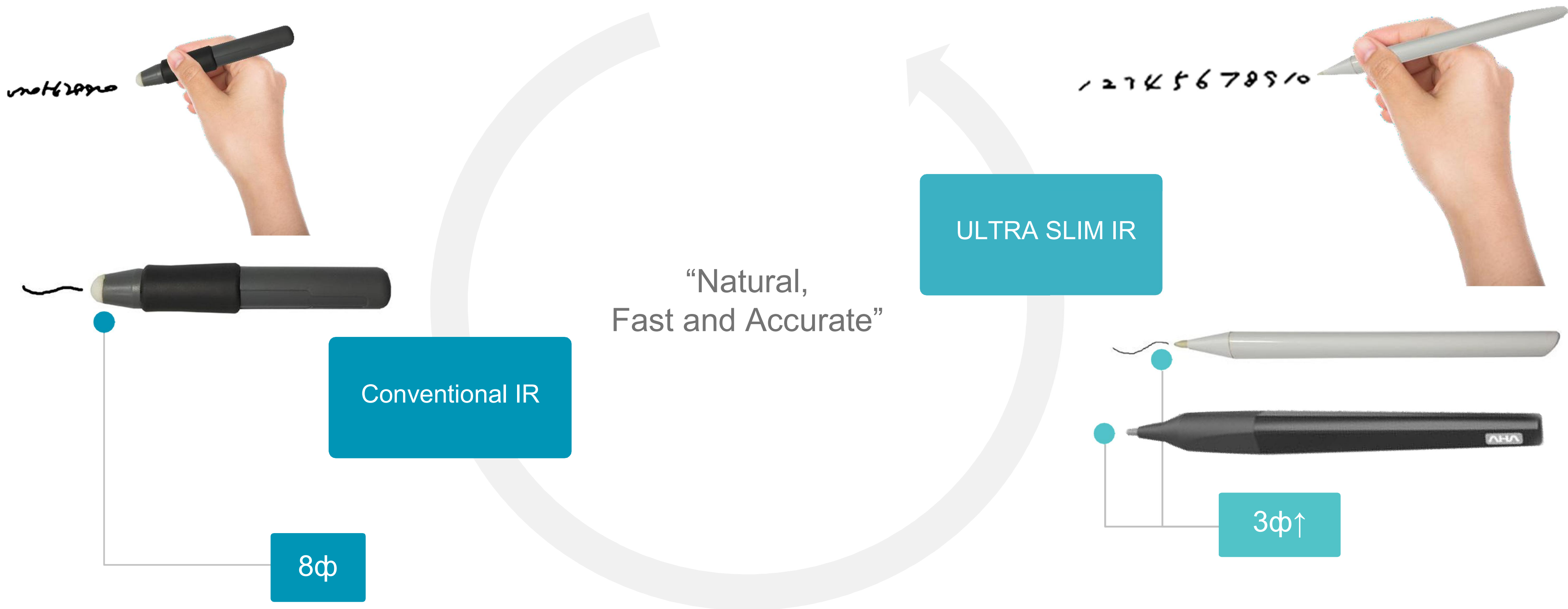
Able to write small, fine letters

Able to write a small letter in a box even less than 10 mm in width and length (1 cm²)

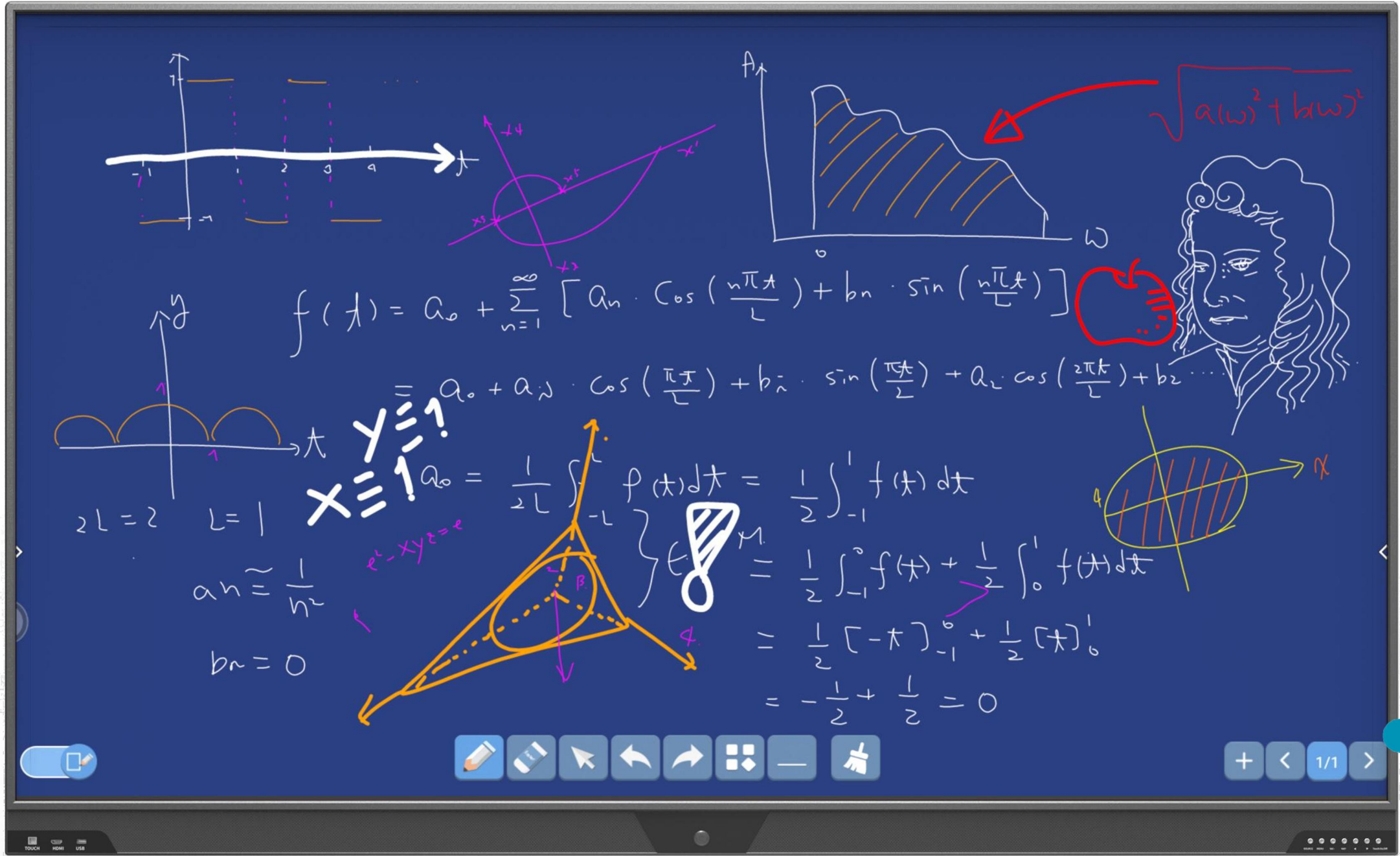


Pen tip diameter $\Phi 3 \uparrow$

Pen tip diameter, used to be 8 mm in conventional IR, now is reduced to 3 mm for very fine and accurate writing



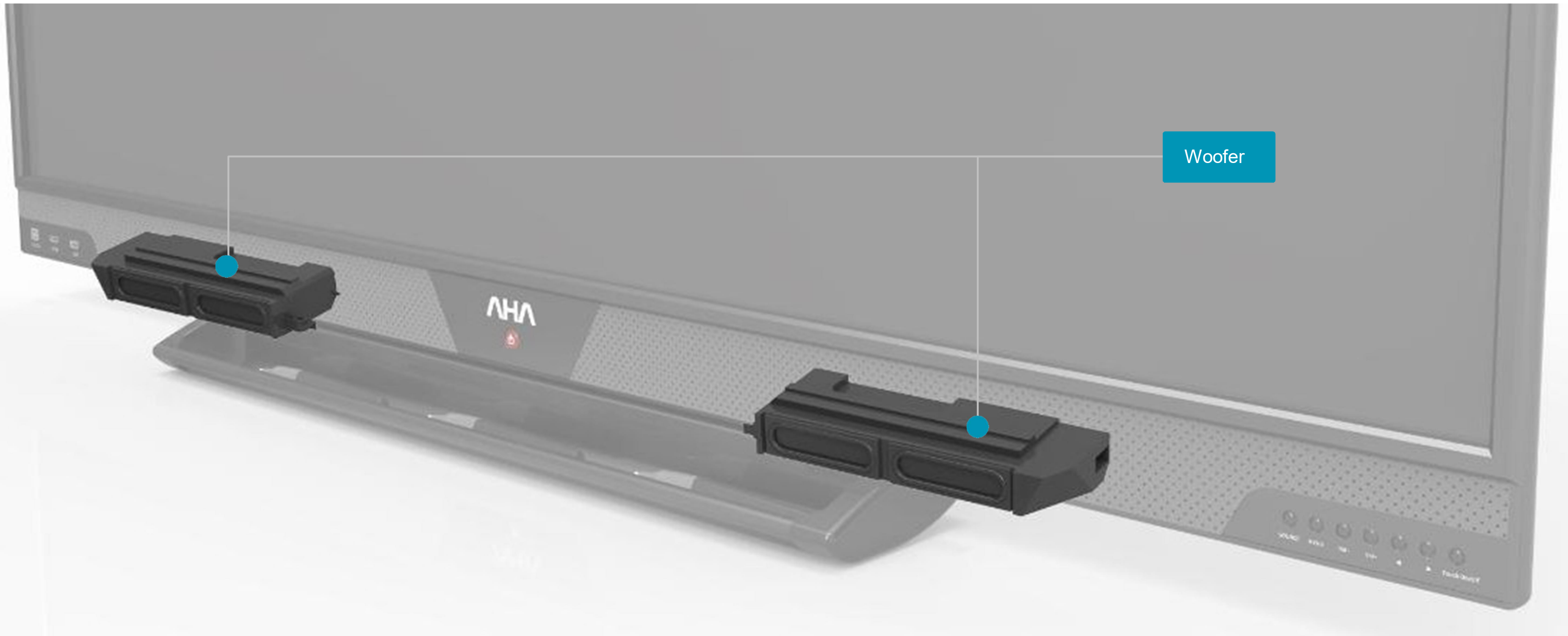
Slim design



Bezel Total width 13 mm

Sound Improvement : 20 W x 2, Woofer

High power output of 20W x 2 as well as better low-pitched sound quality through woofer



Android version 8.0 (Mstar MSD 848)

Android version 8.0 provides high performance as well as various features



High performance CPU(A73 x 2 + A53 x 2)

GPU(G51 MP)

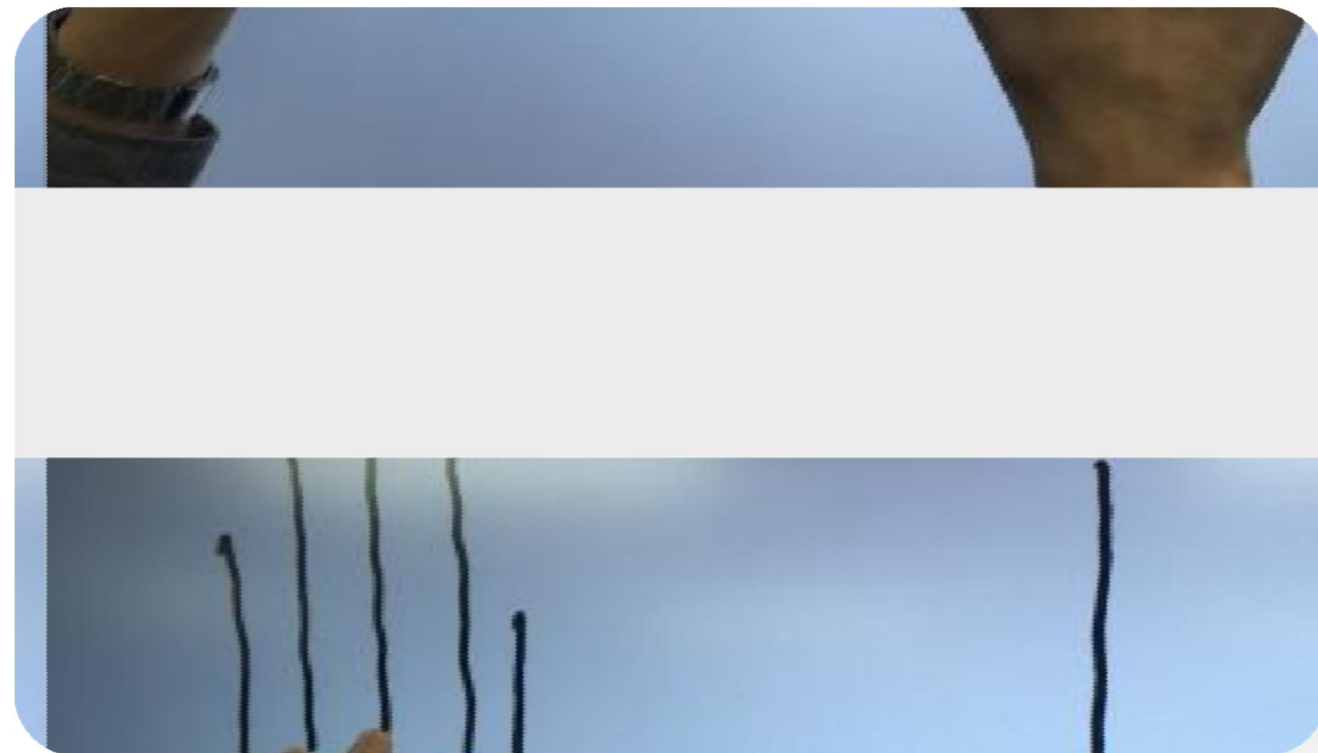
2GB, DDR4 2.4GHz

High speed WiFi by PCIe

HDMI out

Max. 20 touch points on Android

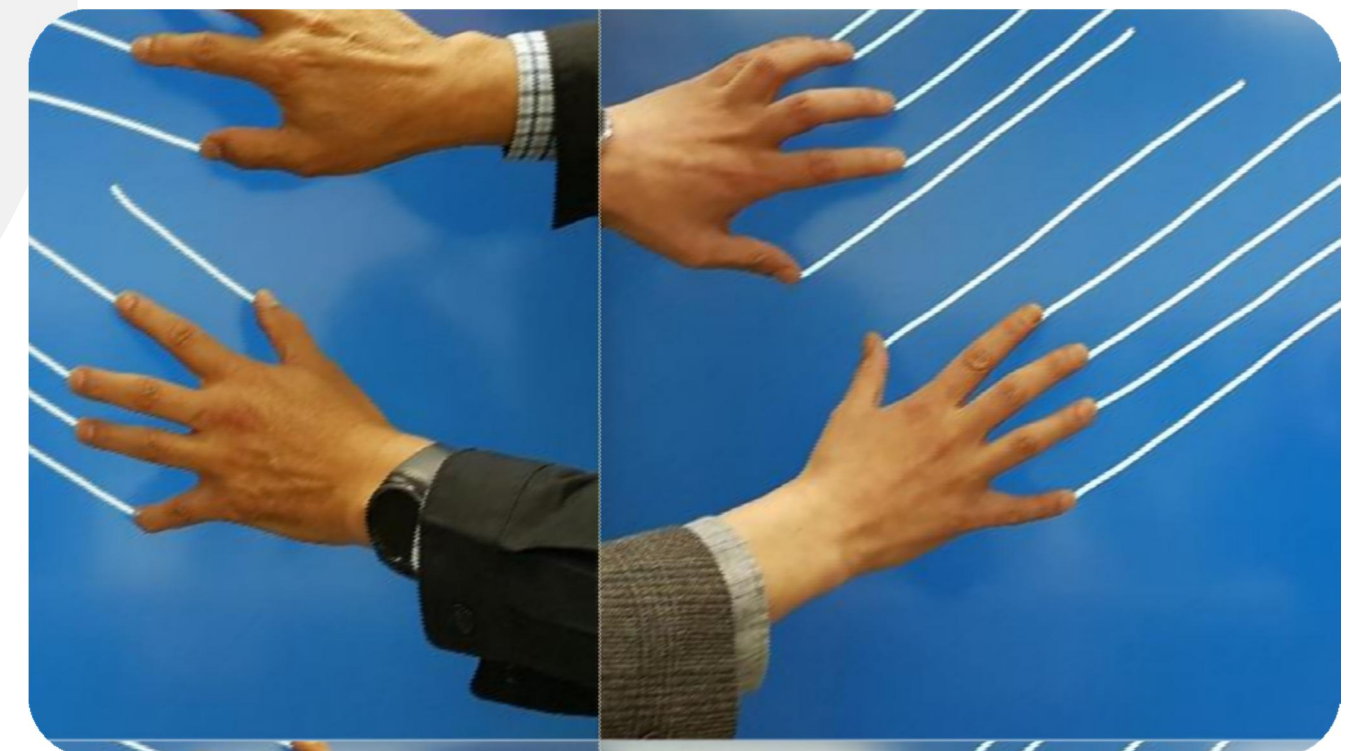
Not only for Windows, but also for Android, Max. 20 touch points are supported



Android ver. 5.1 :
6 touch points (on Android)

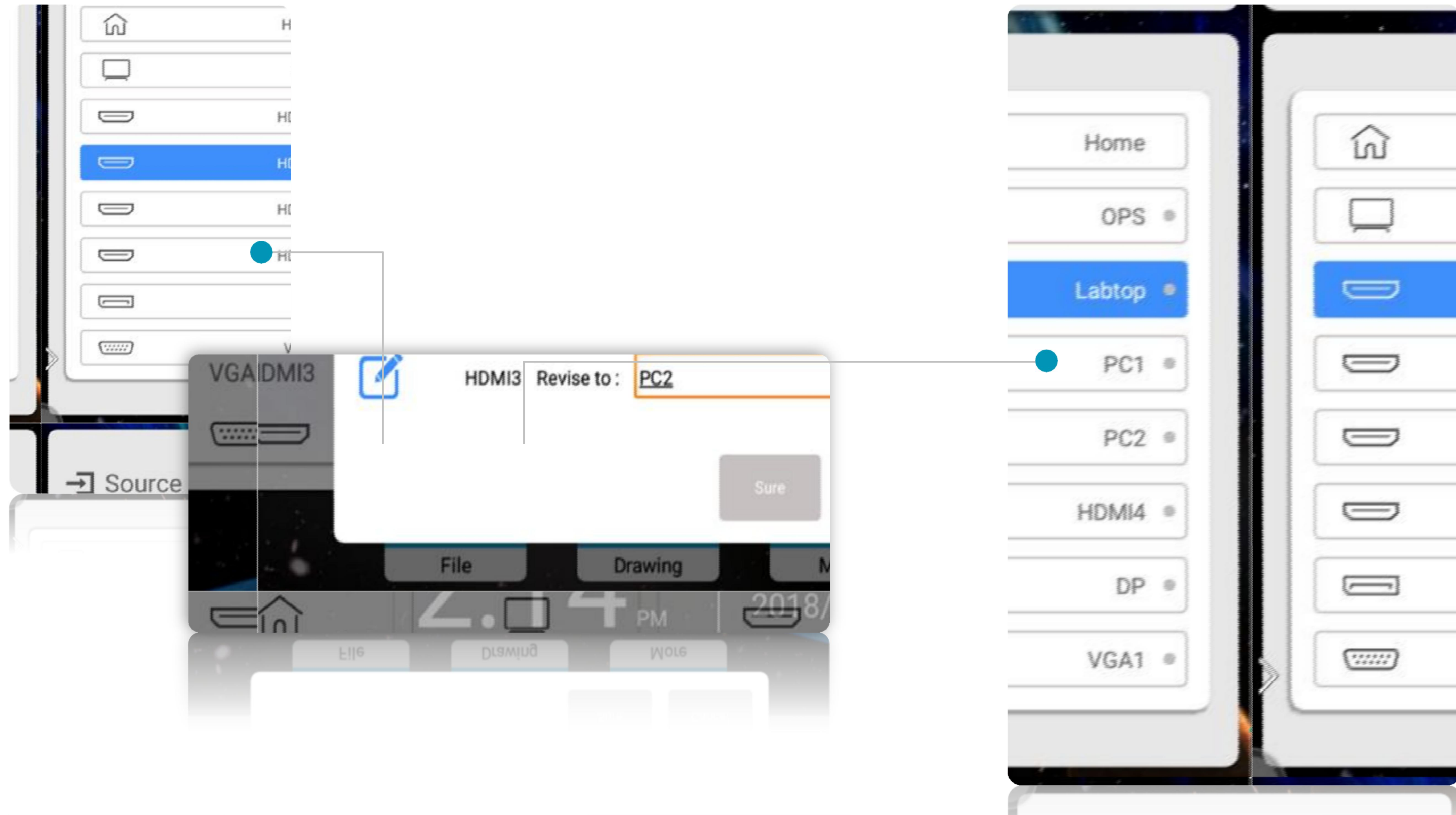
“Natural,
Fast and Accurate”

Android ver. 8.0 :
Max. 20 touch points (on Android)



Able to change source name


Source name can be changed to another user-friendly name



E-Mail sending

The contents saved on the whiteboard can be delivered through email (up to 50 email address) and the email addresses can be saved.





E-mail config

From
newdawn2489@gmail.com

Nickname
Lee


Authorization code
.....

 Save

 Record

Custom configuration ☒

SMTP Server: SMTP@gmail.com Port: 465 SSL ☒

To newdawn222@shatouch.com;newdawn888@naver.com; 

Subject
2020-07-17Meeting Record

Content
This is a meeting record. It's send from Drawing.

SEND

What is authorization code?

DICOM Curve

With improvement of picture quality, especially adjusting luminance, DICOM(Digital Imaging & Communications in Medicine) Curve embedded into product and this feature helps and can be used for medical meetings & seminar



DICOM MODE OFF

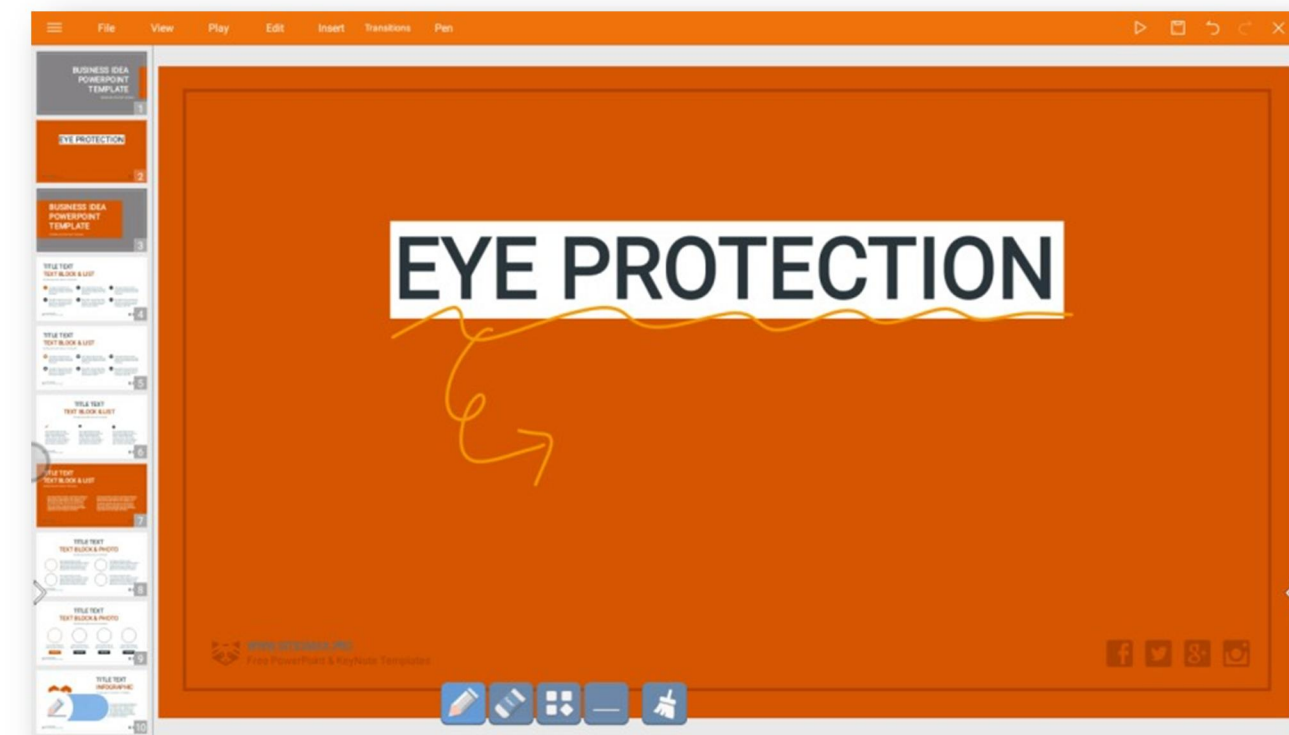
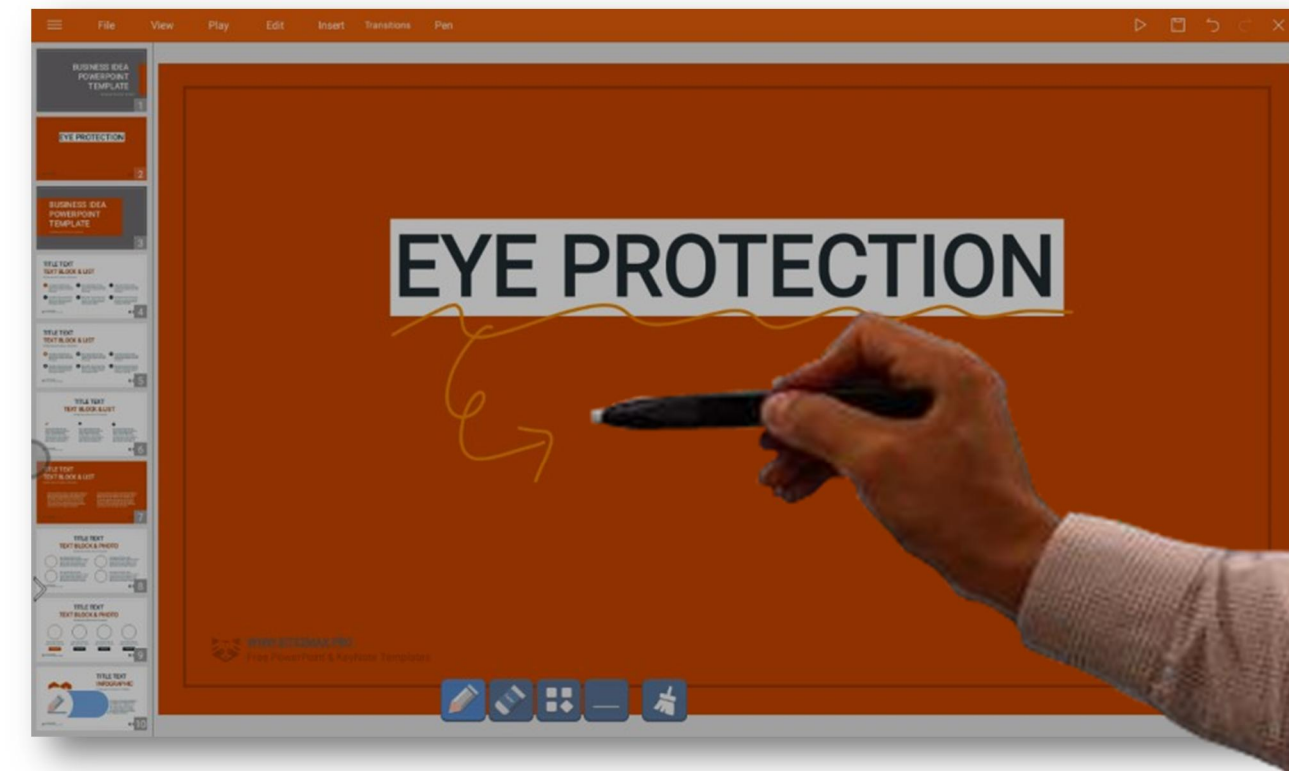
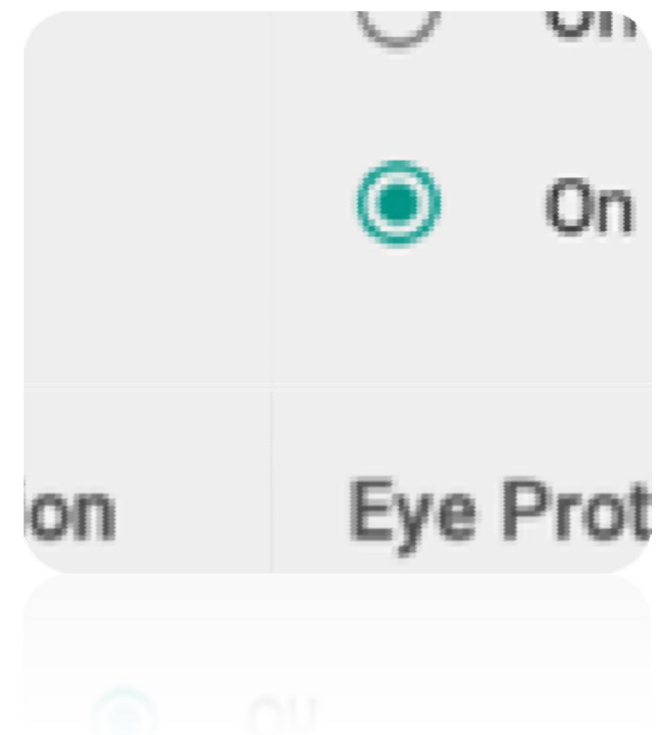
“Natural,
Fast and Accurate”

DICOM MODE ON



Eye protection function

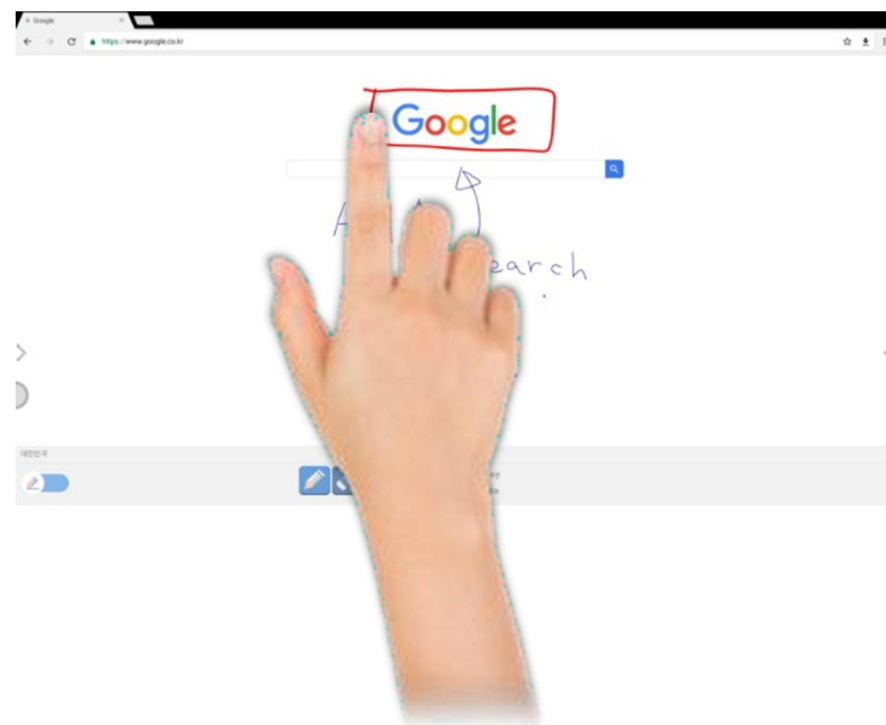
If eye protection is selected and user starts to write, brightness is automatically adjusted (to less bright) and when user stops writing, then brightness automatically back up to the original level



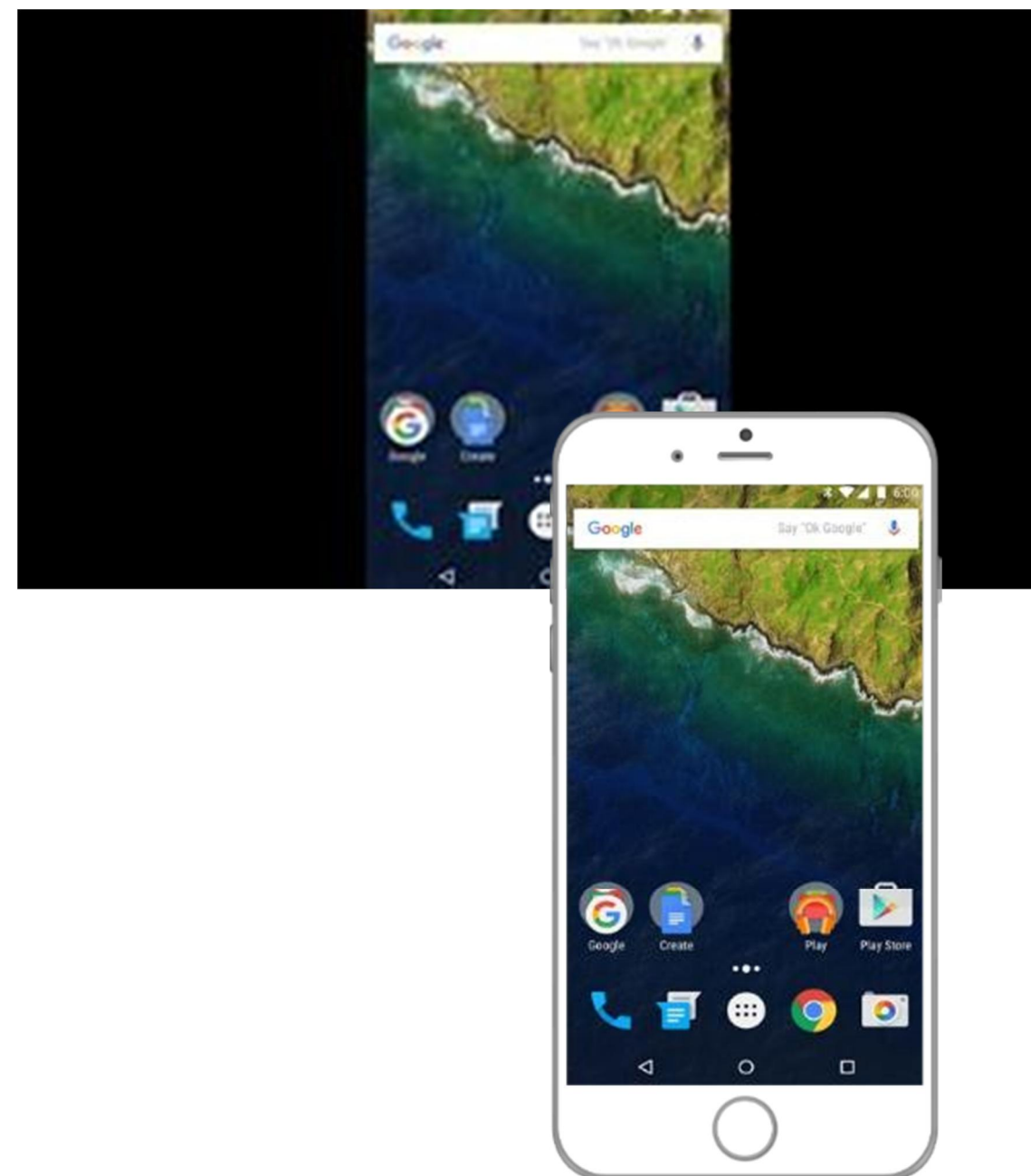
EShare Pro for mirroring, reverse touch

EShare Pro allows users to simply mirror IFPD to peripherals in the same Wi-Fi and also, peripherals do mirror to IFPD including touch functionalities

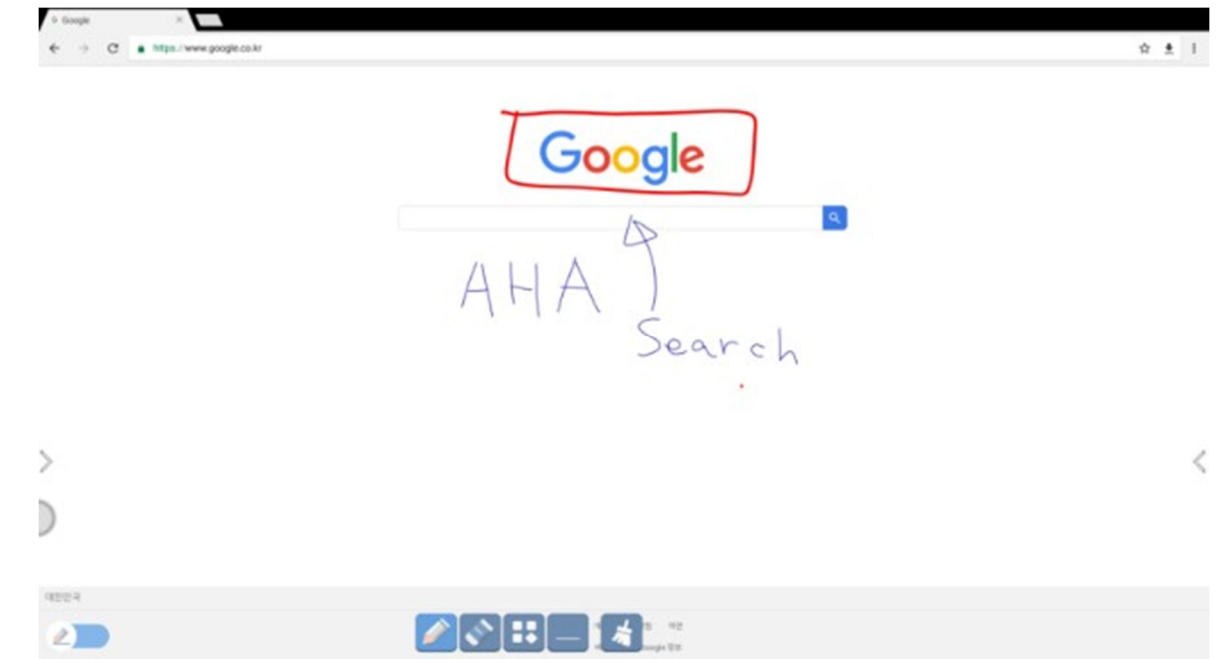
IFPD → Smartphone mirroring



Smartphone → IFPD mirroring



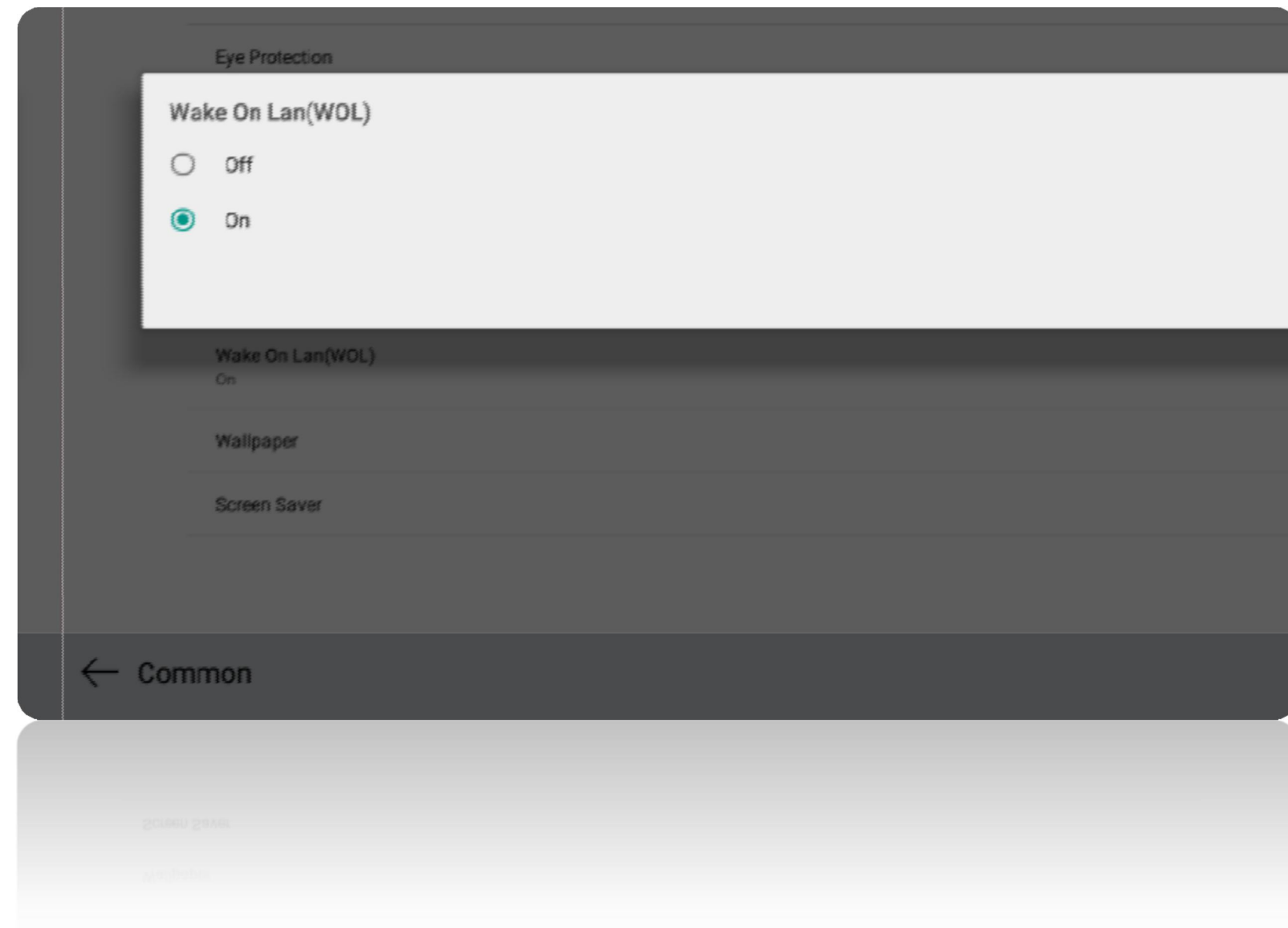
Smartphone writing →
IFPD writing



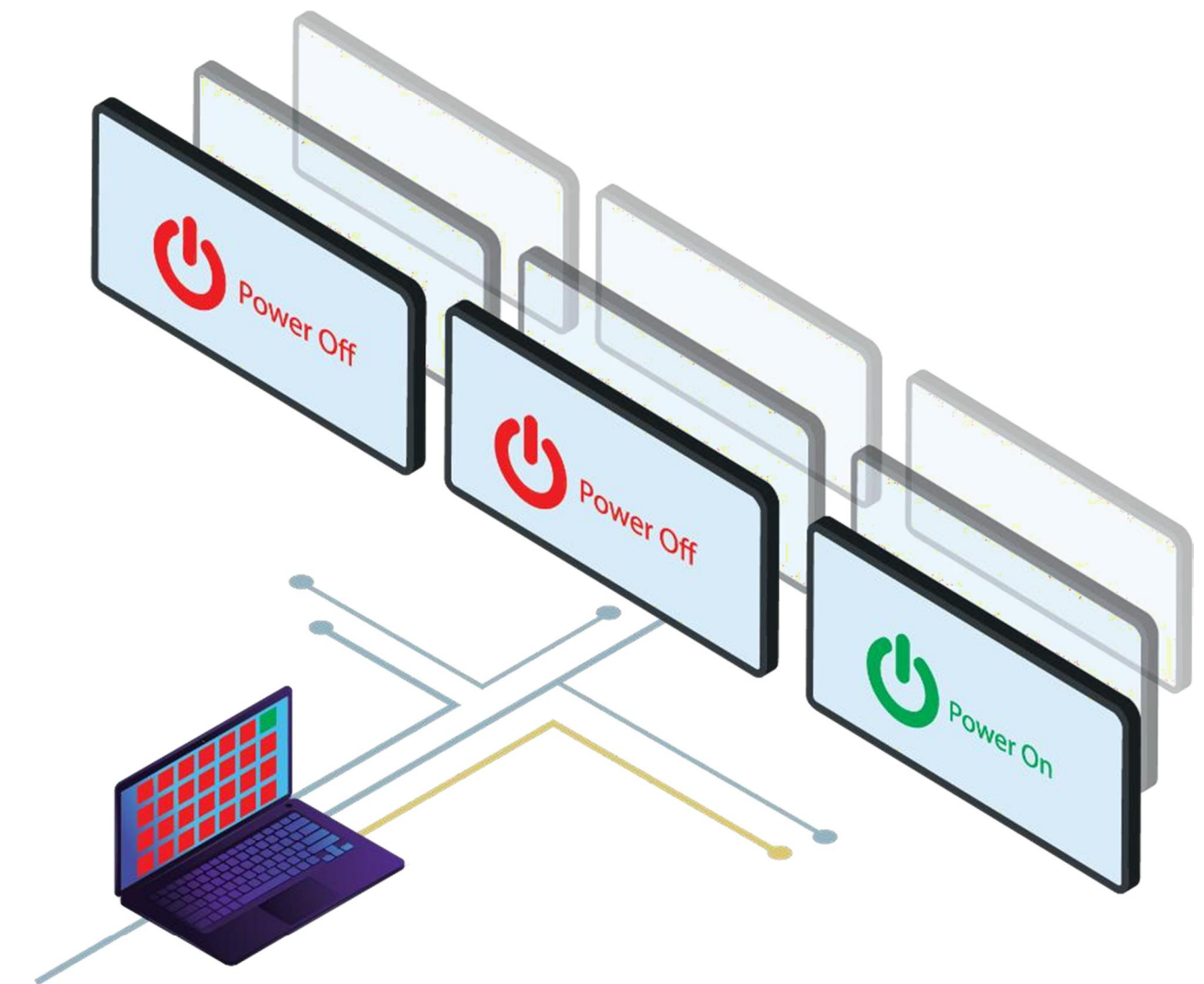
WOL (Wake On Lan)

With WOL setting, IFPD can be turned on through LAN

WOL SETTING



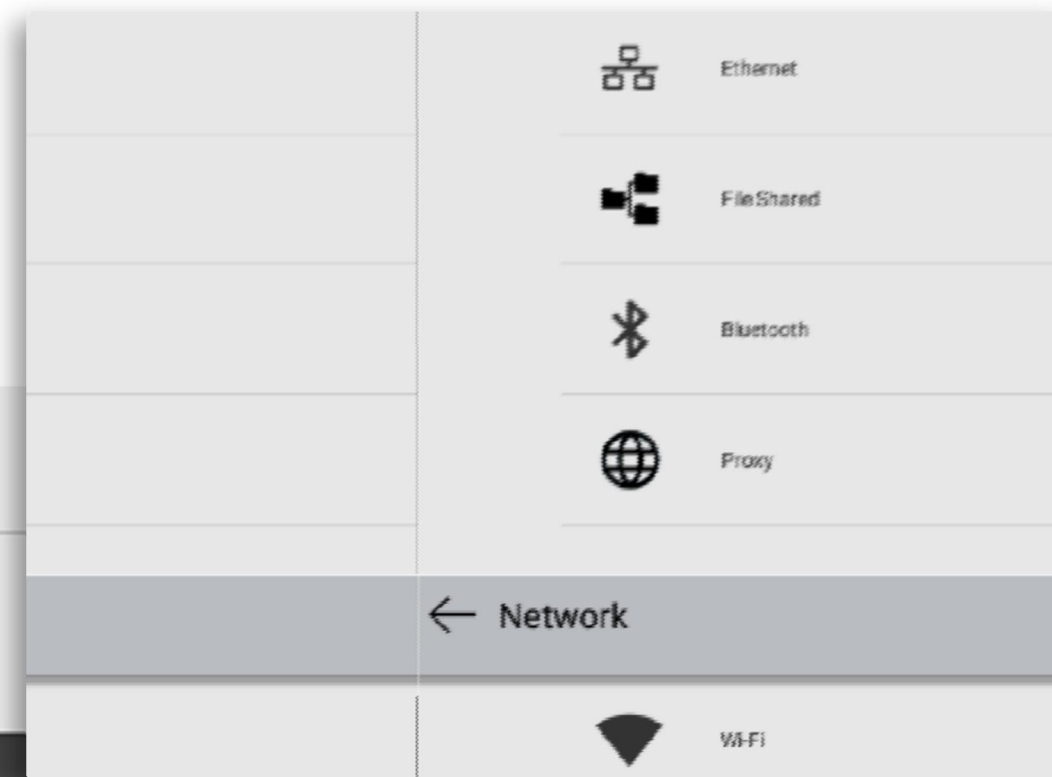
WOL POWER ON



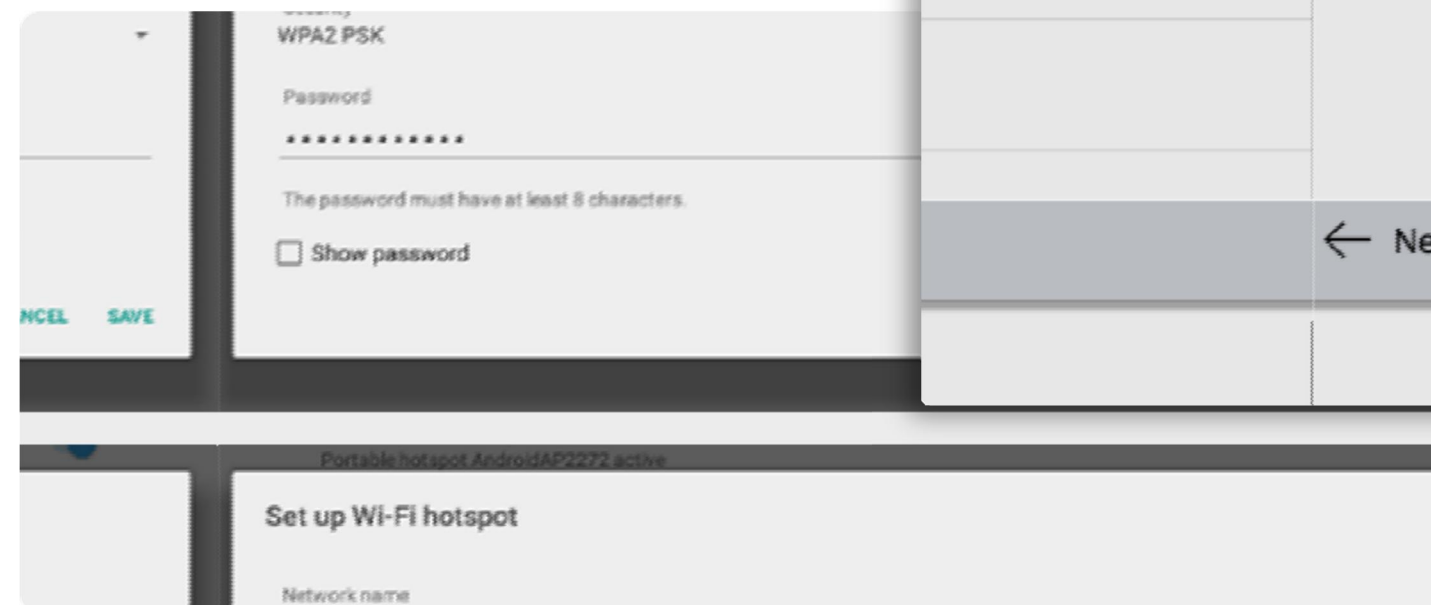
Dual Wi-Fi (2.4G-WIFI + 5G-AP)

With Dual Wi-Fi(2.4G Wi-Fi + 5G-AP) IFPD easily gets connected to internet as well as various devices linked

WIFI SETTING



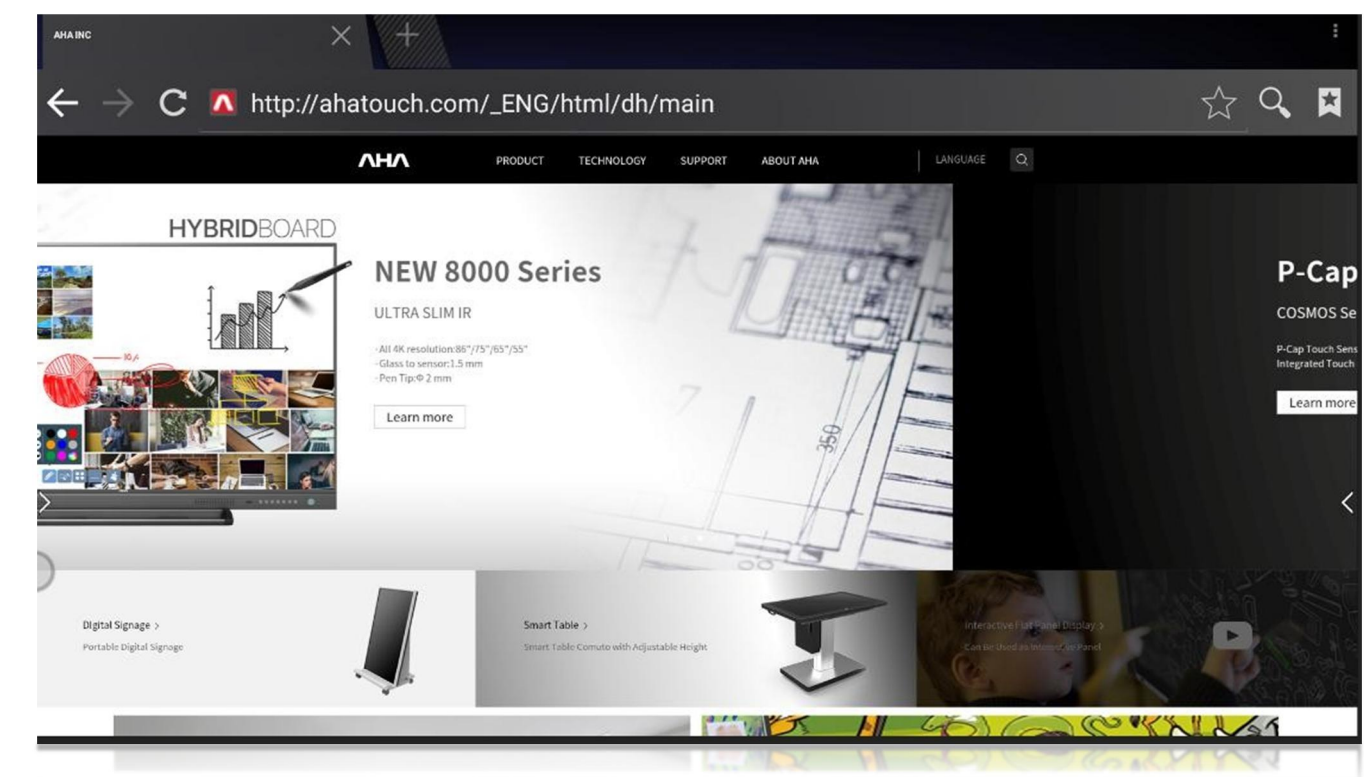
WIFI 5G HOT SPOT



WIFI CONNECTED



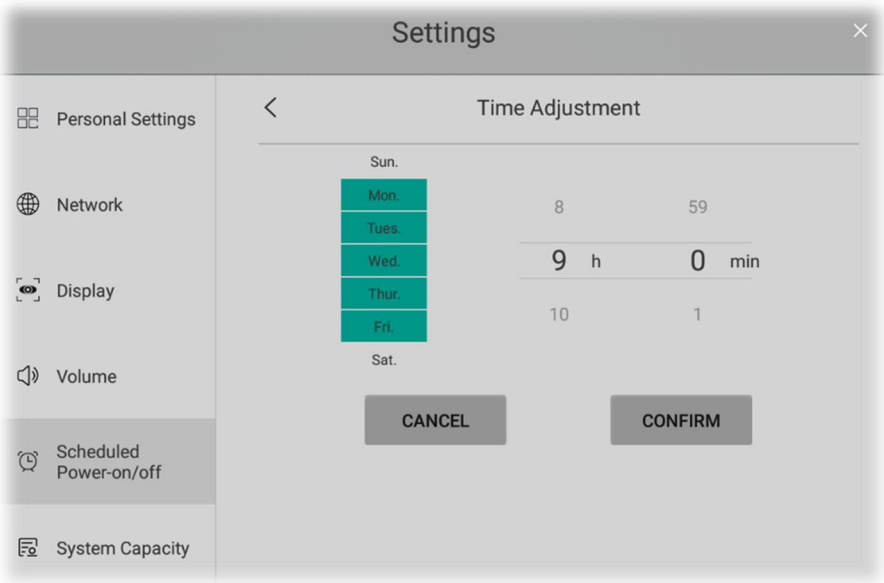
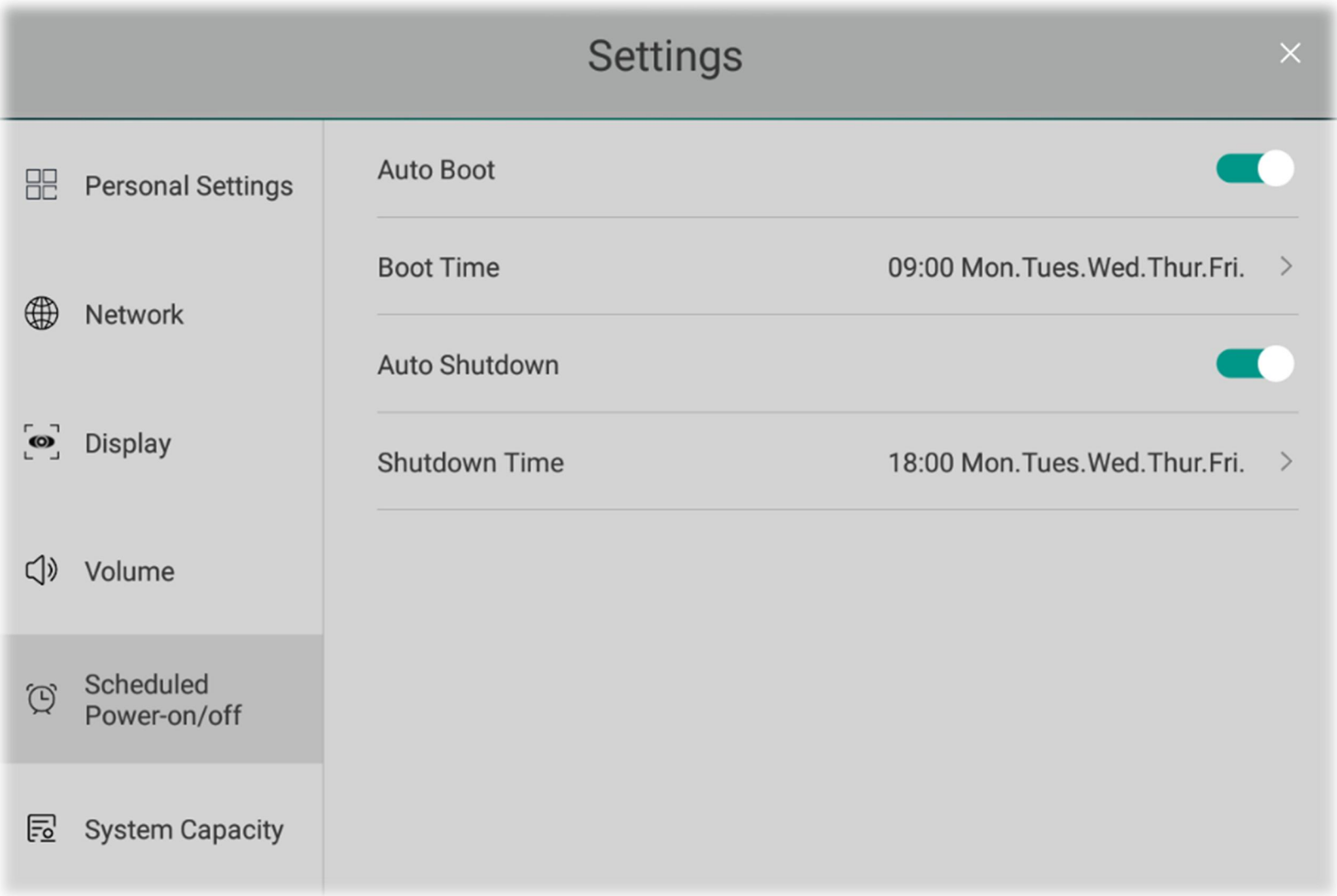
WIFI INTERNET SCENE



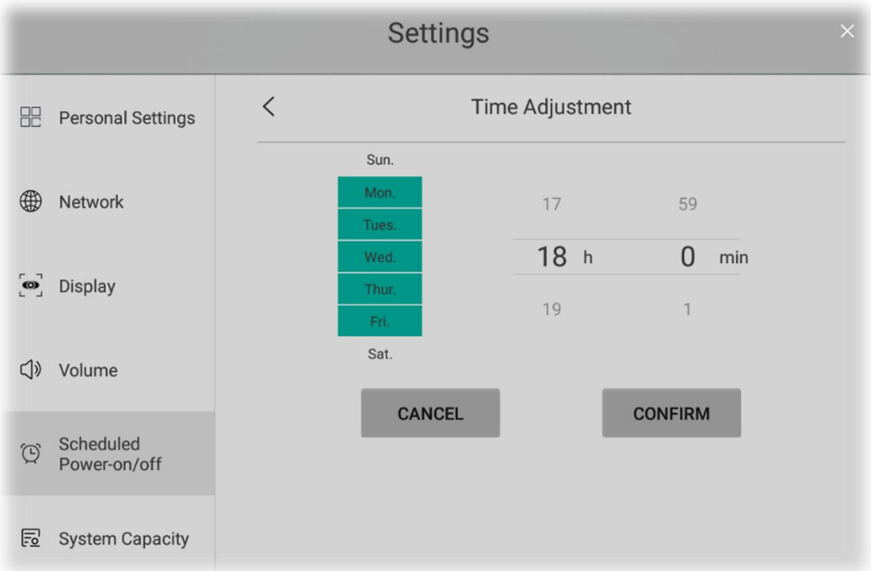
Power on/off time setting

Power on/off time setting is supported (day of week, hour, minutes, etc.)

Power on



Power off

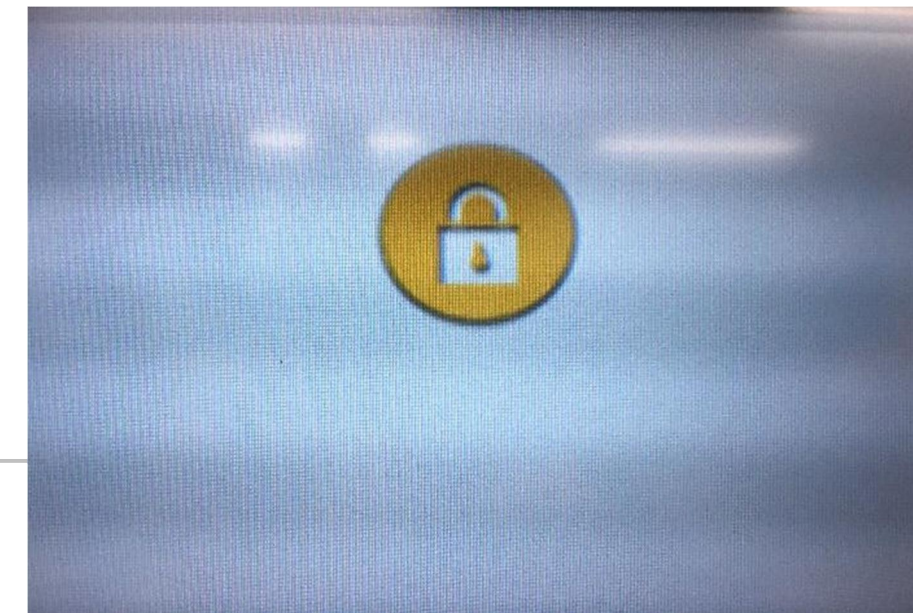


Touch on/off button

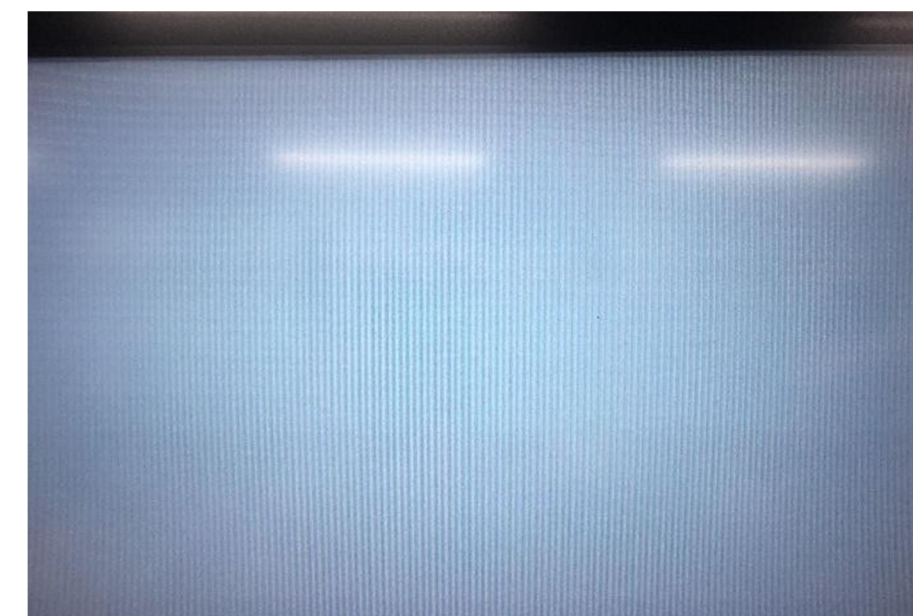
With the button on front bottom, a user can simply use IFPD with touch or non-touch Monitor. In case button pushed for non-touch, display show “LOCK” image as below



Touch off



Touch on



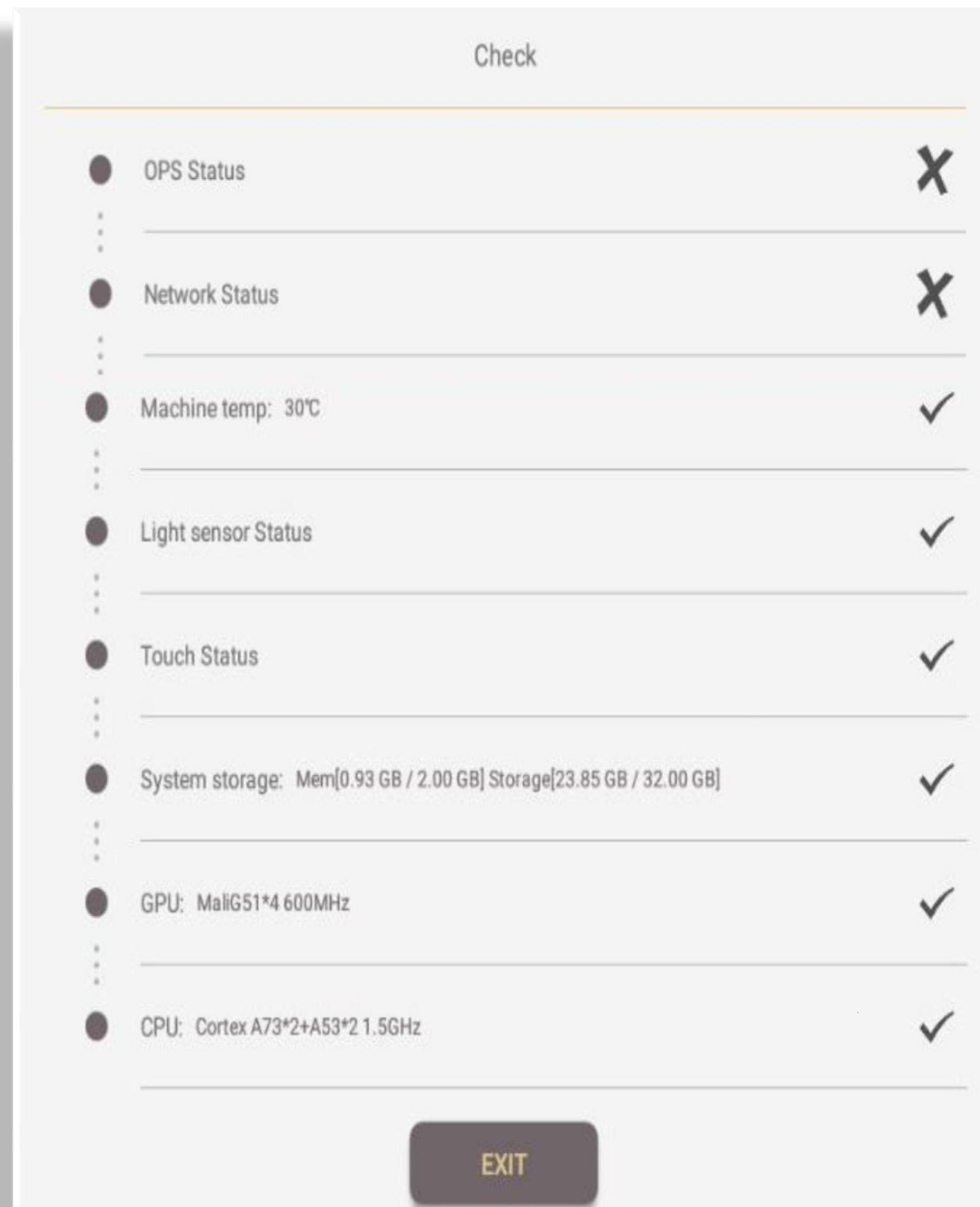
QR code

QR code makes it easy to transfer images on whiteboard to smart phones



Self diagnosis

The IFPD can self-diagnose whether the system has any defects or not.(Self diagnosis)

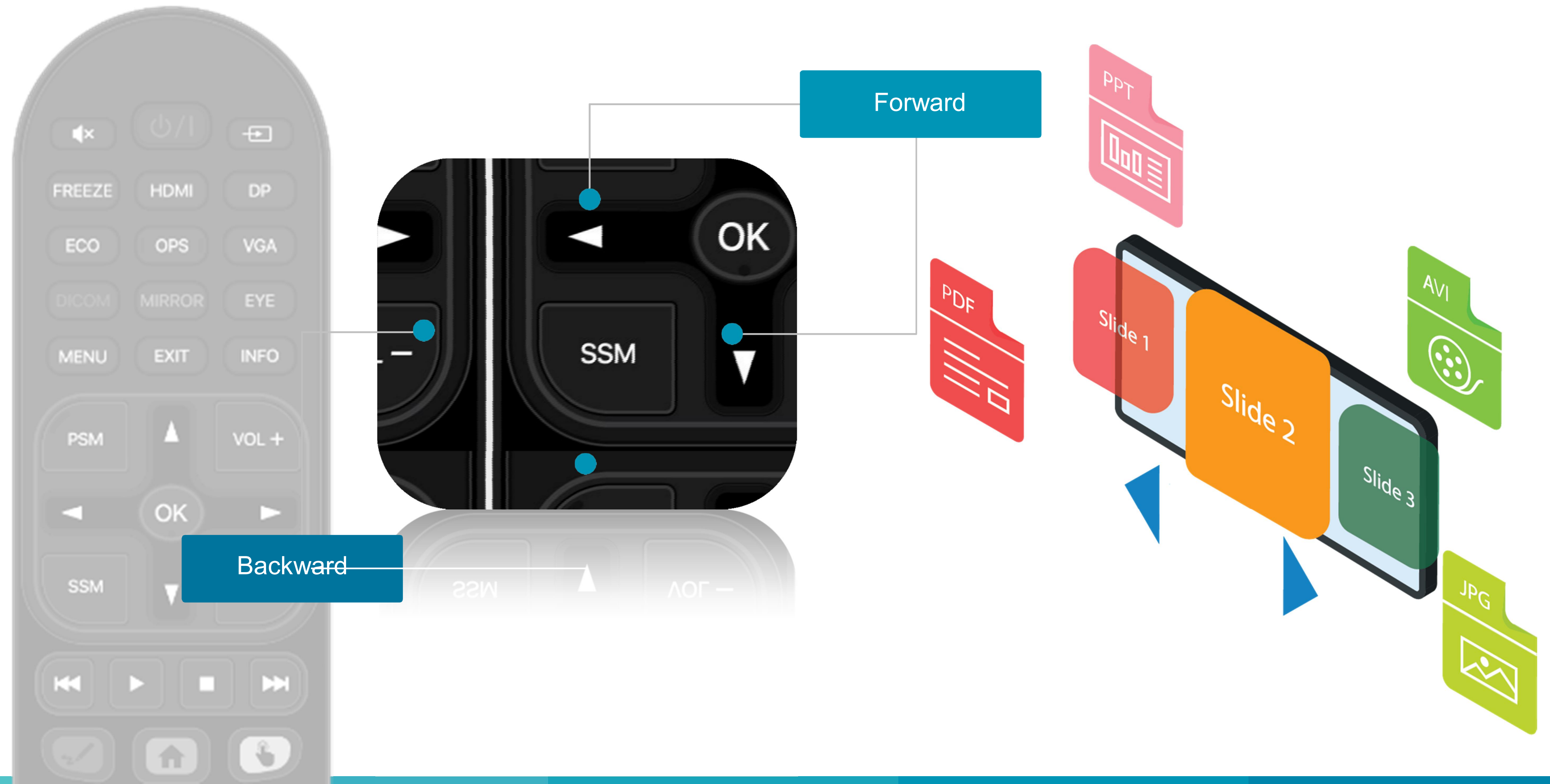


Self diagnosis

- OPS status
- Network status
- Temperature status
- Light sensor status
- Touch sensor status
- System storage

Presentation supports on remote controller

With using remote controller, user enable to move forward or backward presentation materials



FOTA (Firmware Over The Air)

Firmware update can be done easily using the server located at AHA in Korea.

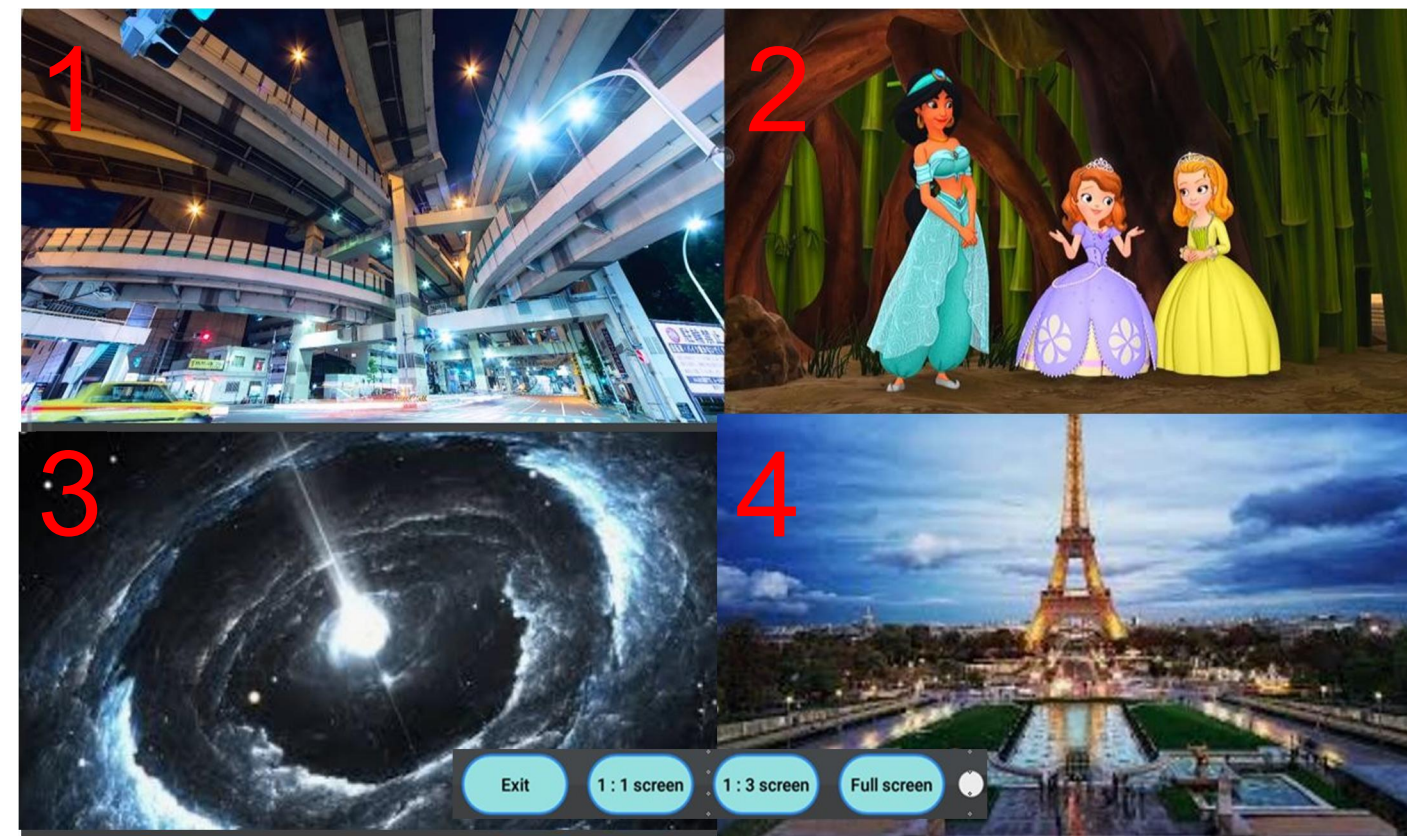
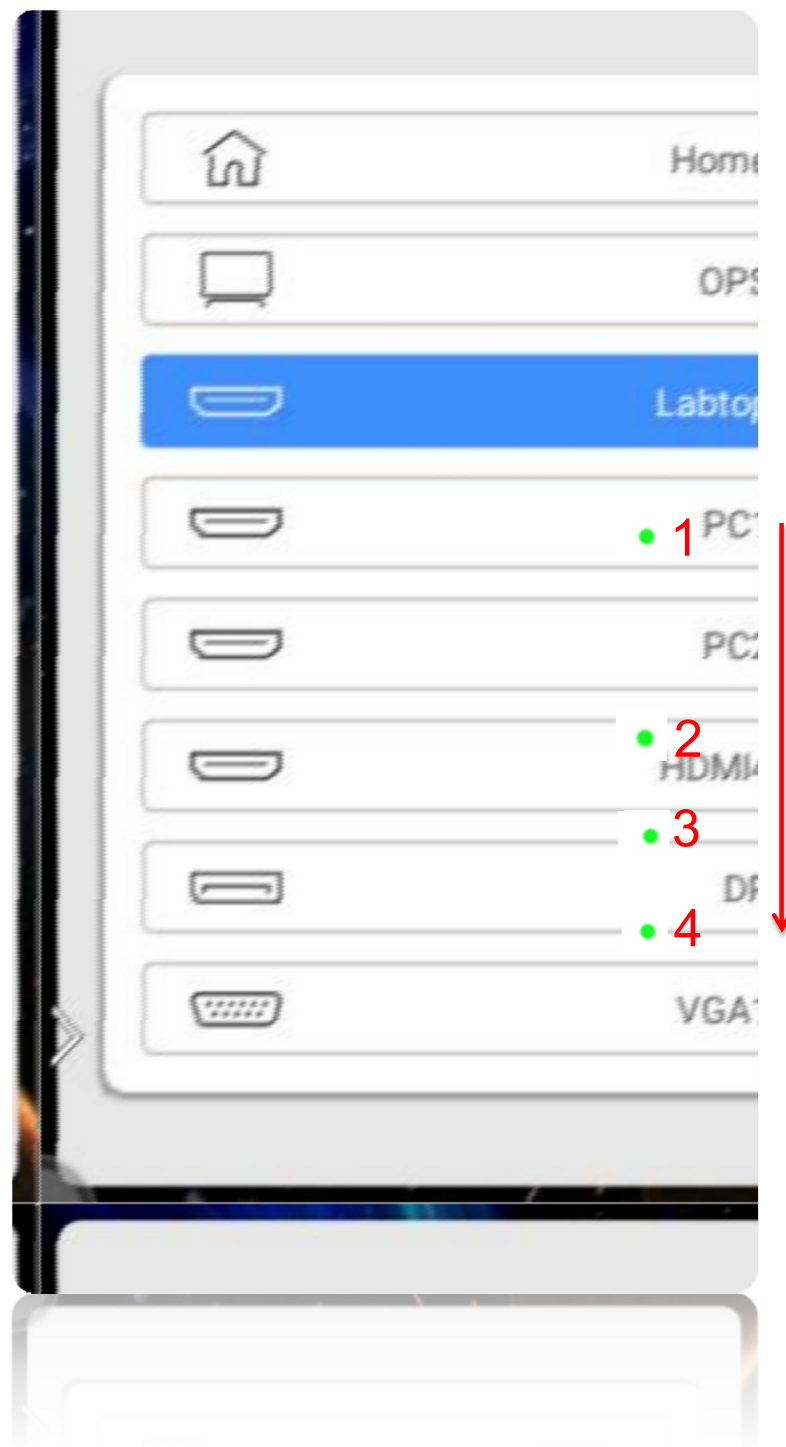


PBP (Picture By Picture)

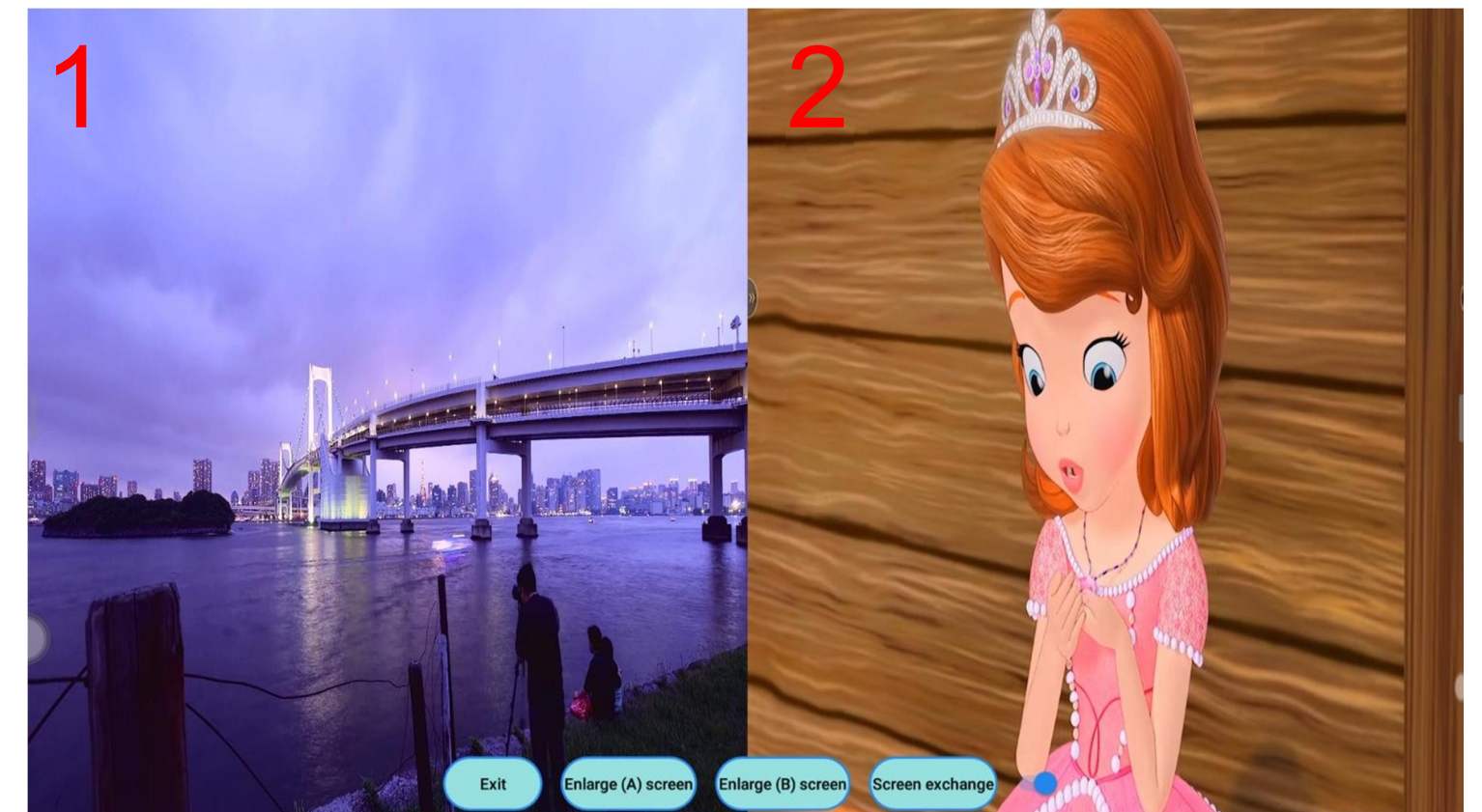
PBP function separates the screen in 4 or 2 split displaying from different source devices that are connected to IFPD.

If there are 4 input source signals, there can be 4 split displaying.

It is displayed on each split displaying from the source above. The resolution of the split displaying is FHD and top left displaying on the PBP 4 split displaying and left displaying on the 2 split displaying is the main source that can be played in video and the others are in image.



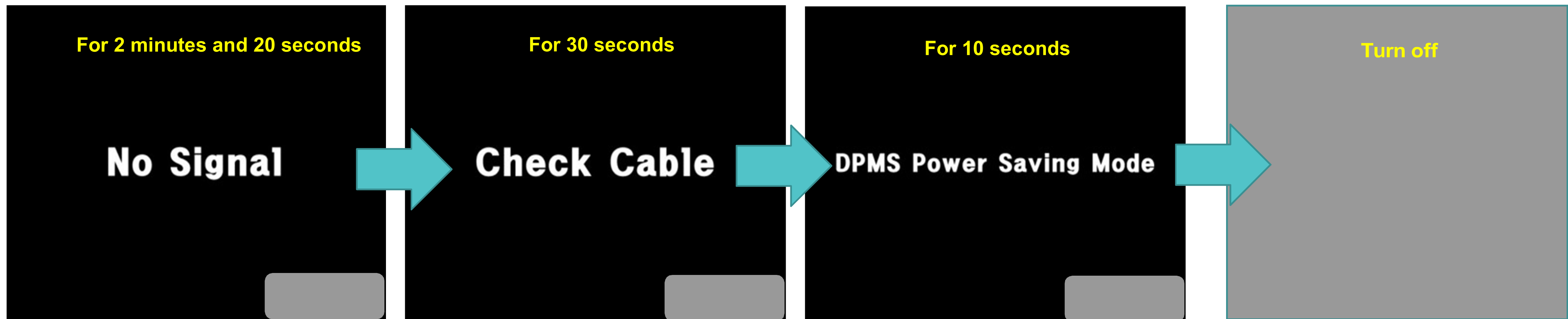
PBP 4 split displaying



PBP 2 split displaying

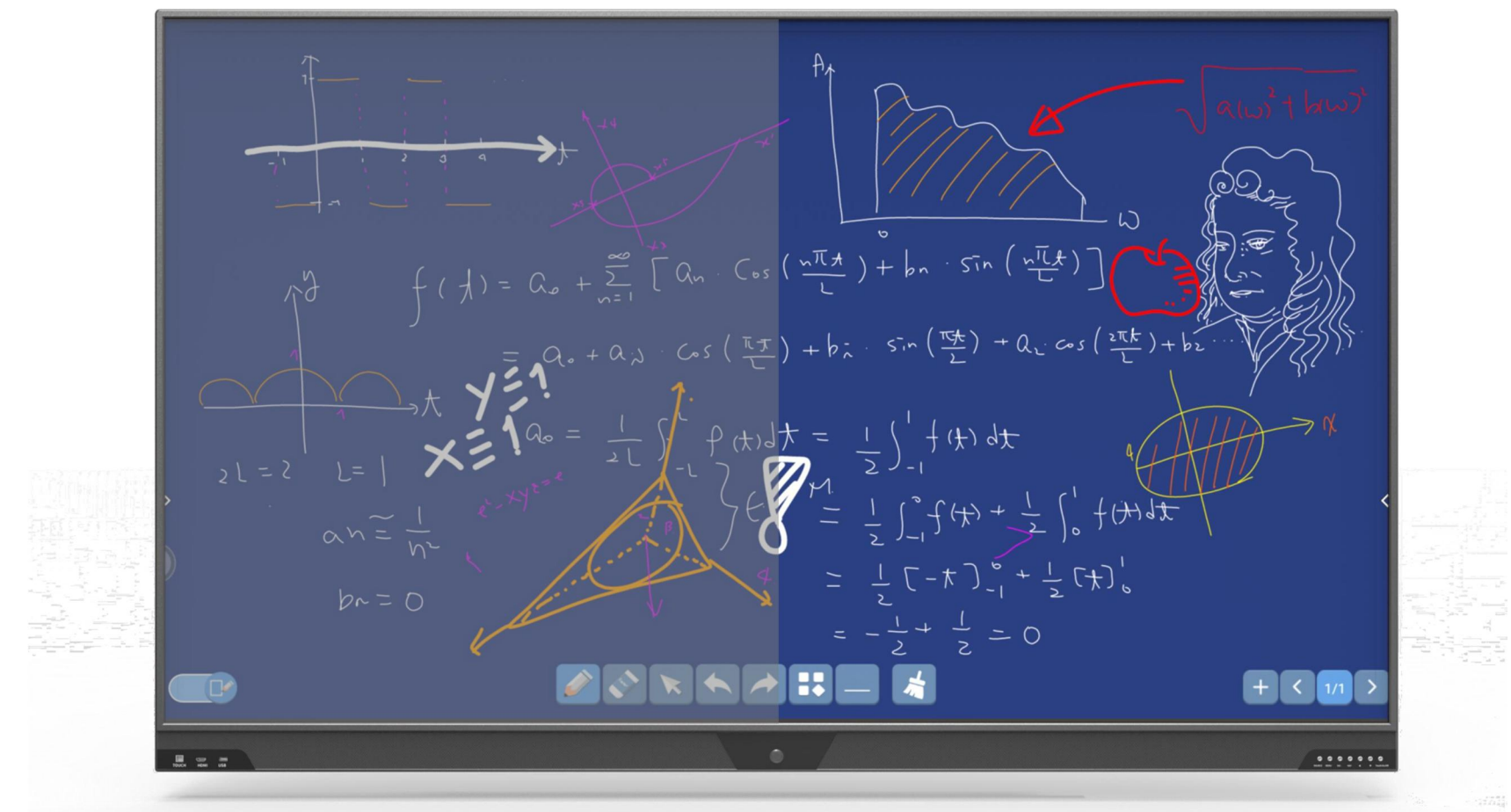
DPMS (Display Power Management Signaling) VESA standard

IFPD can be turned off by itself 3 minutes after there is no signal on external Windows connected to IFPD or OPS built in IFPD.



Auto light system

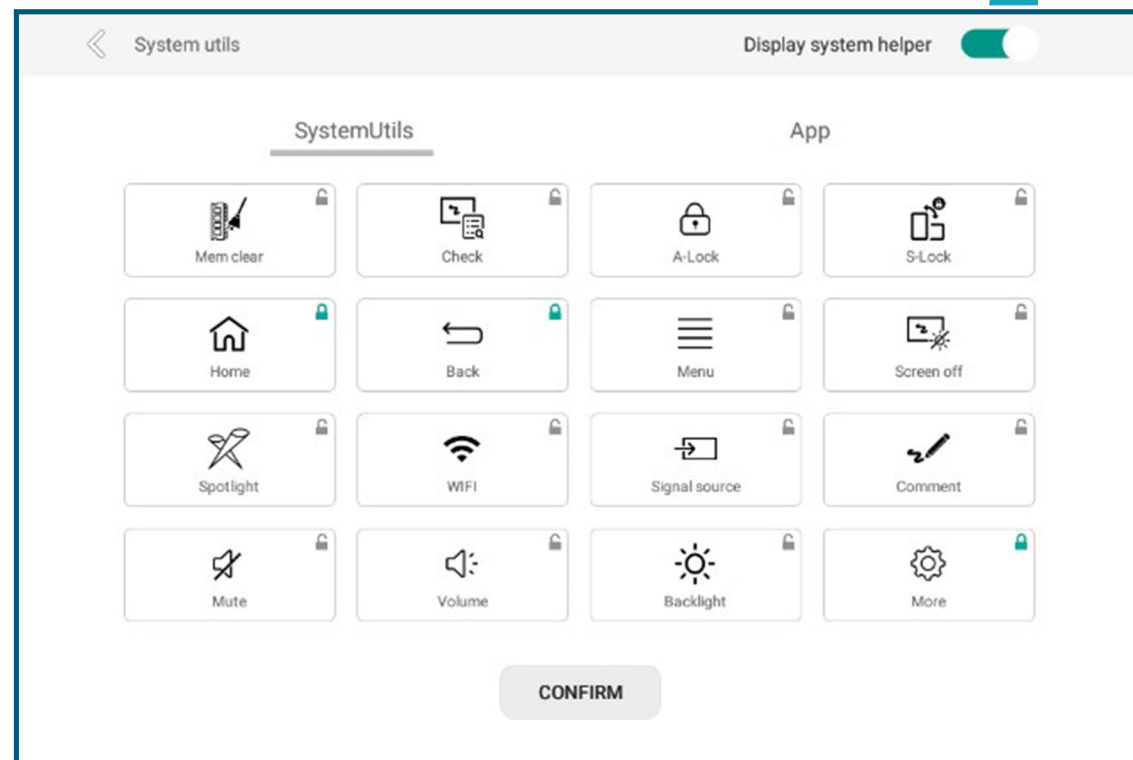
The brightness of IFPD can be automatically adjusted according to the ambient light with the illumination sensor.
So the user can save the energy.



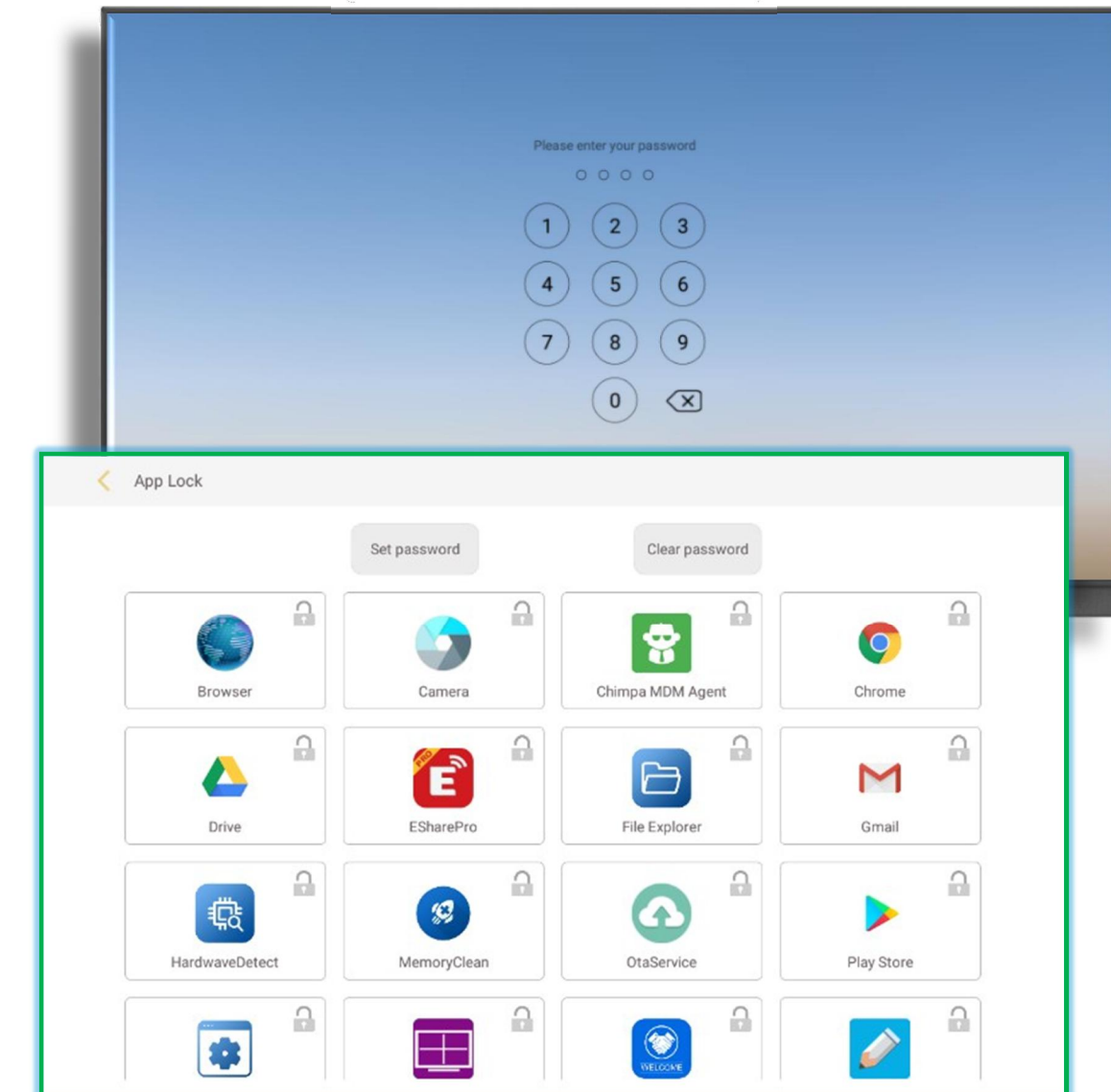
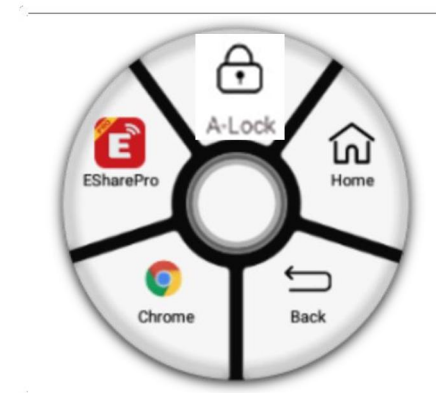
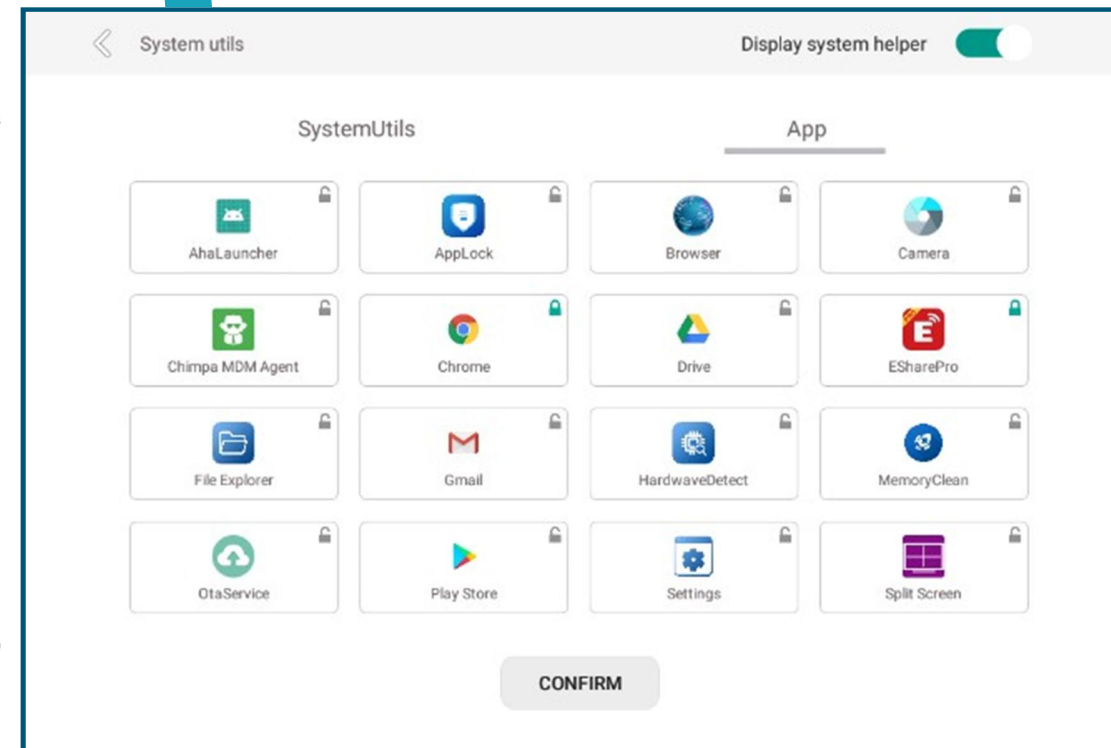
Floating menu settings

The user can select 5 system utils or applications the user want and use them quickly.

System utils



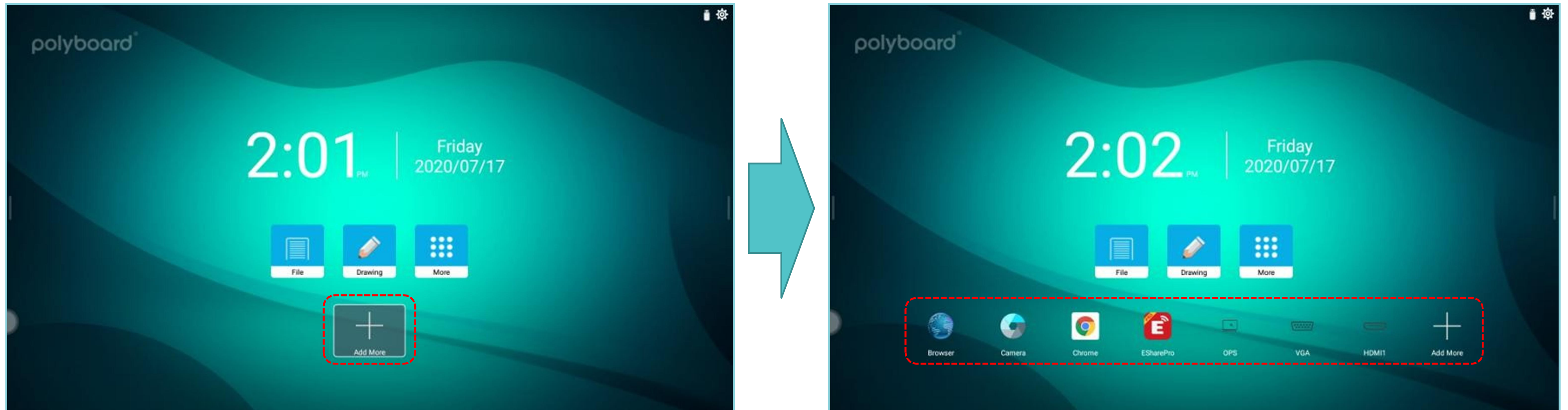
Application



Adding application on HOME

You can add 7 applications or sources on HOME to use them frequently and conveniently.

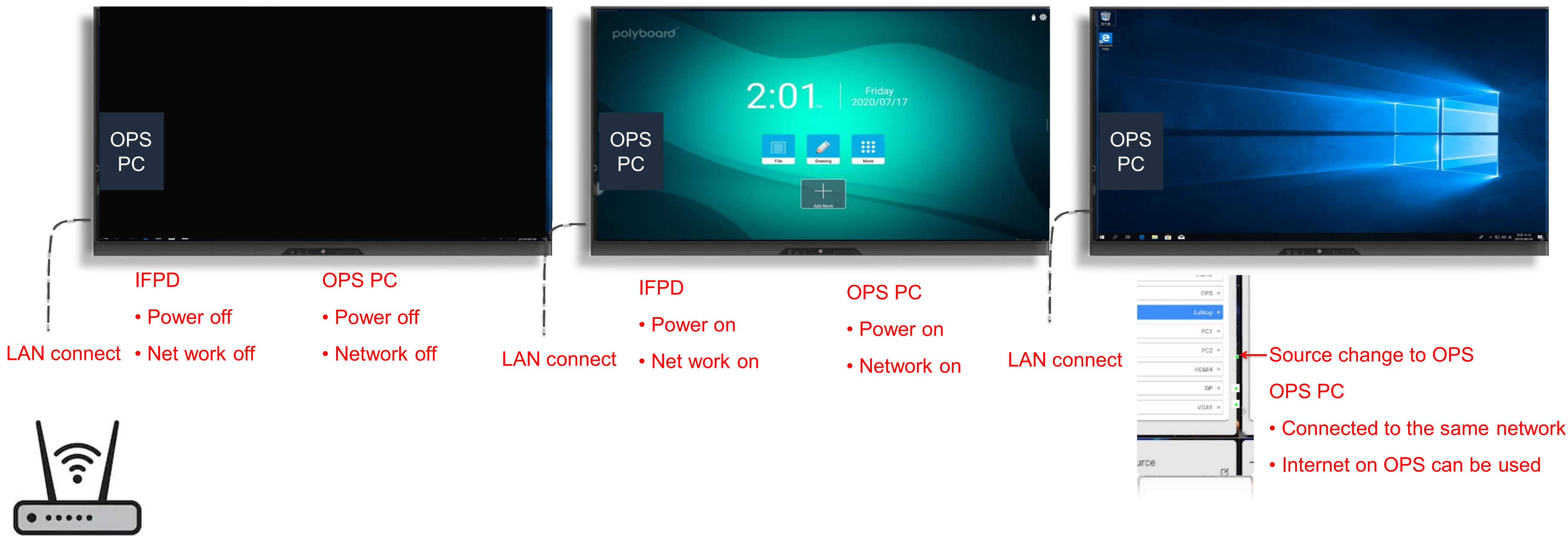
Applications or sources can be added with + icon and can be deleted easily.



OPS network on (Automatically)

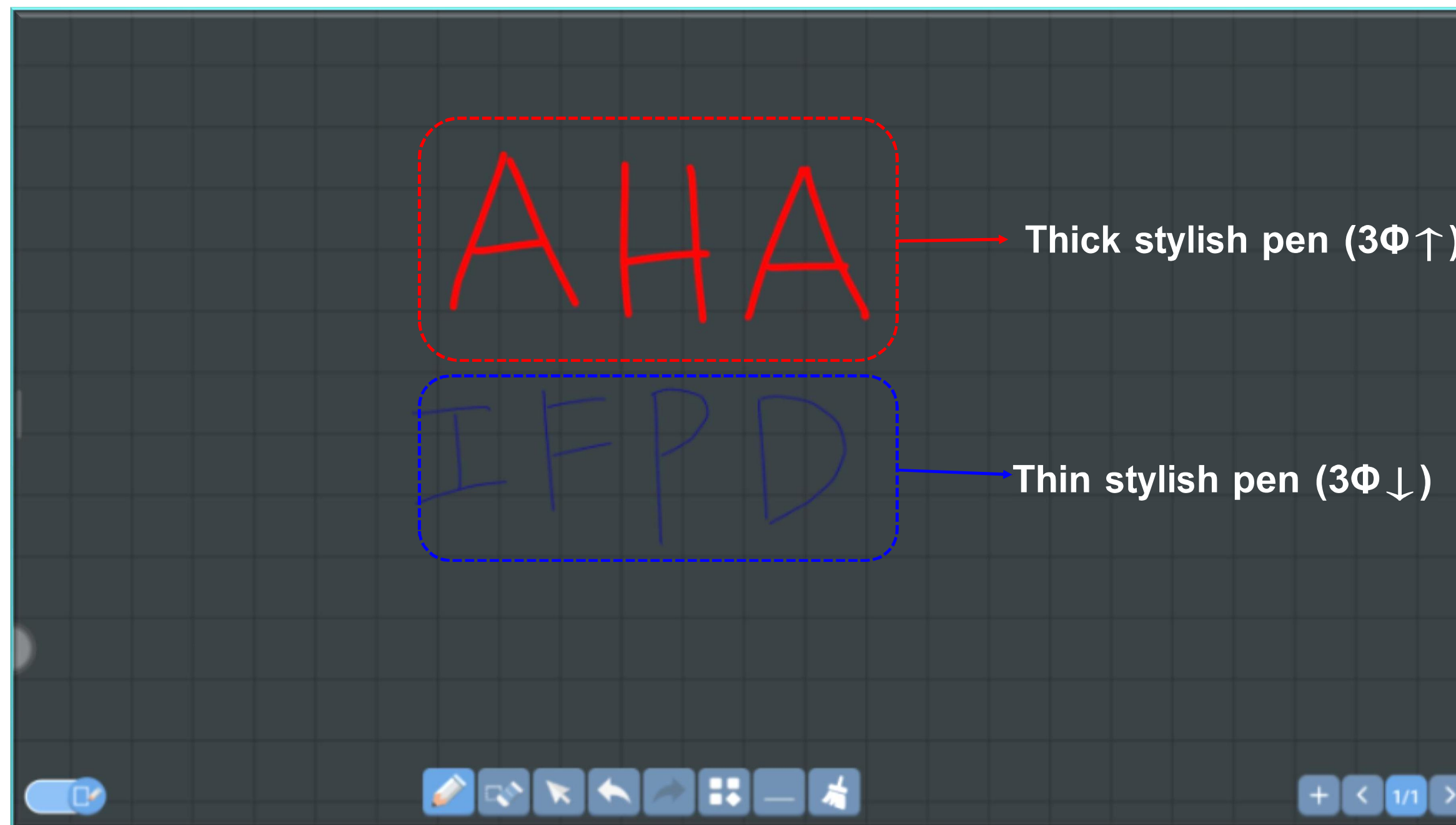
When the IFPD is turned on, OPS automatically can be turned on.

When RJ45 cable is connected to the LAN port of the IFPD, OPS is also automatically connected to the same network.



Dual pen function on whiteboard

IFPD recognizes the thickness of the stylish pen so that the user can use thin pen stylish pen and thick stylish pen at the same time with different color.



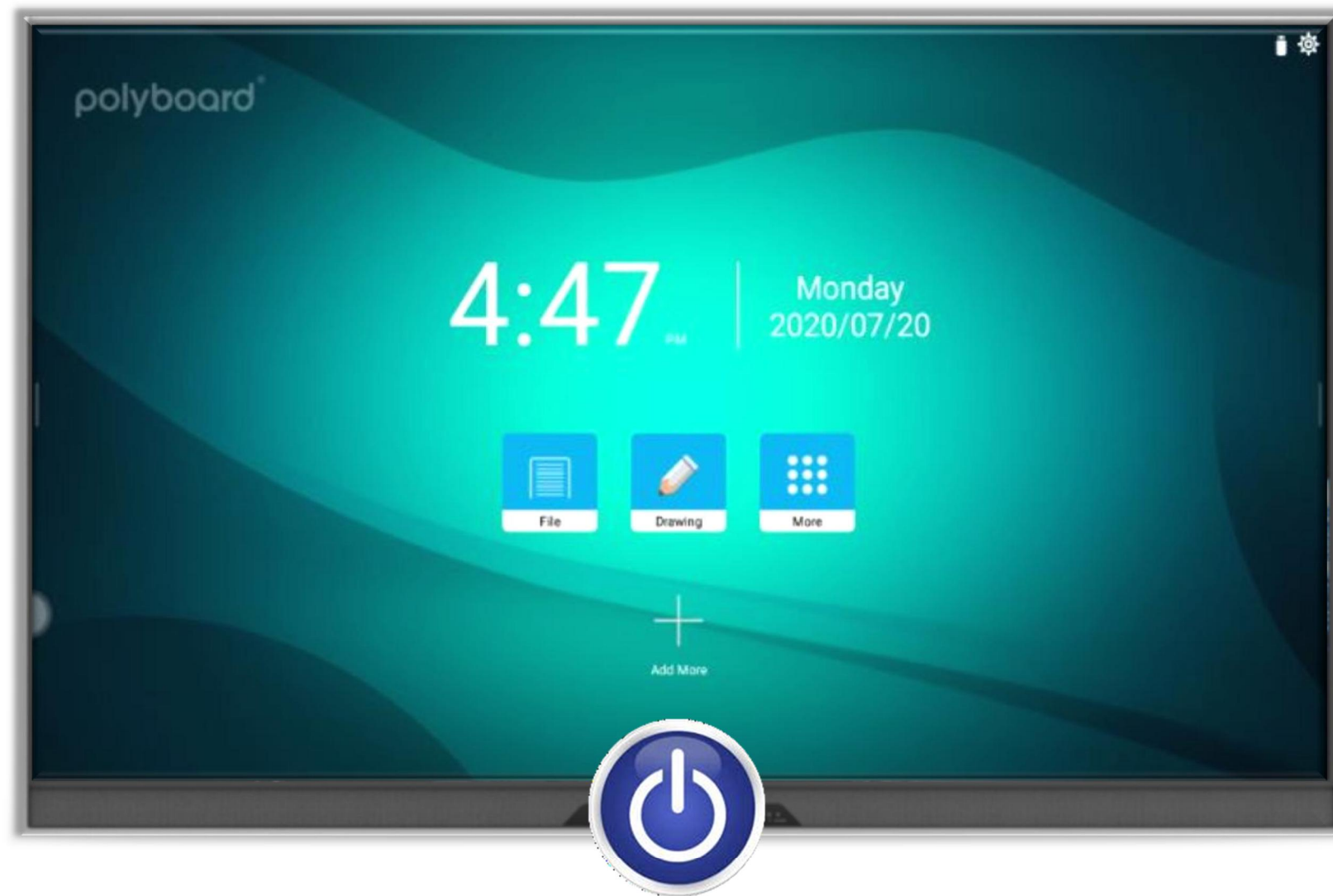
Backlighting adjustment and firmware update using power button

The backlighting can be adjusted

when the power button is on and pressed shortly.

The firmware can be updated when the power button is off and is pressed for approximately 4 seconds.

Long press (approximately 4 seconds) : Power off
Short press : Backlight off

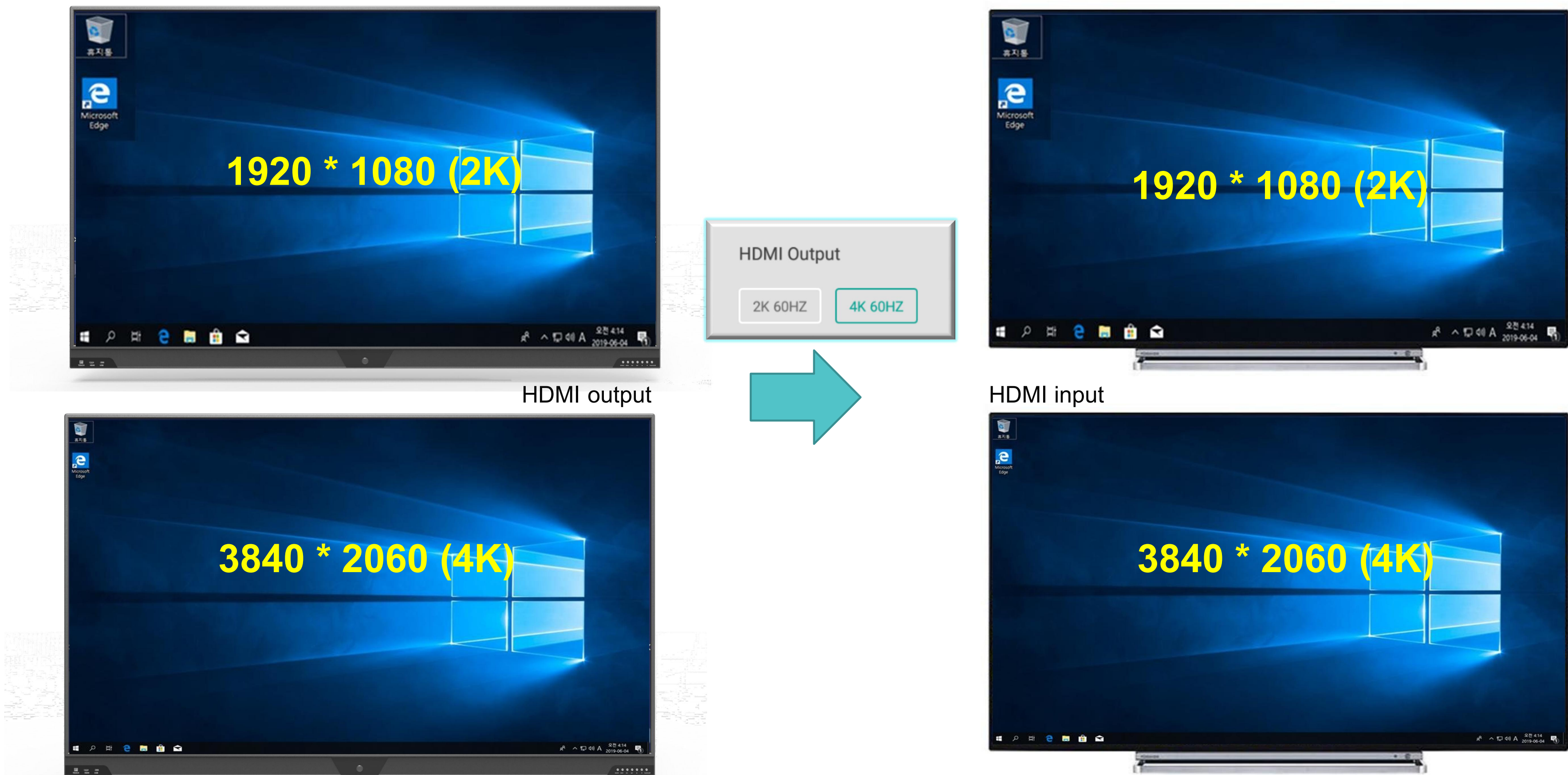


Long press (approximately 4 seconds) : Firmware update
Short press : Power on



HDMI OUT (2K & 4K)

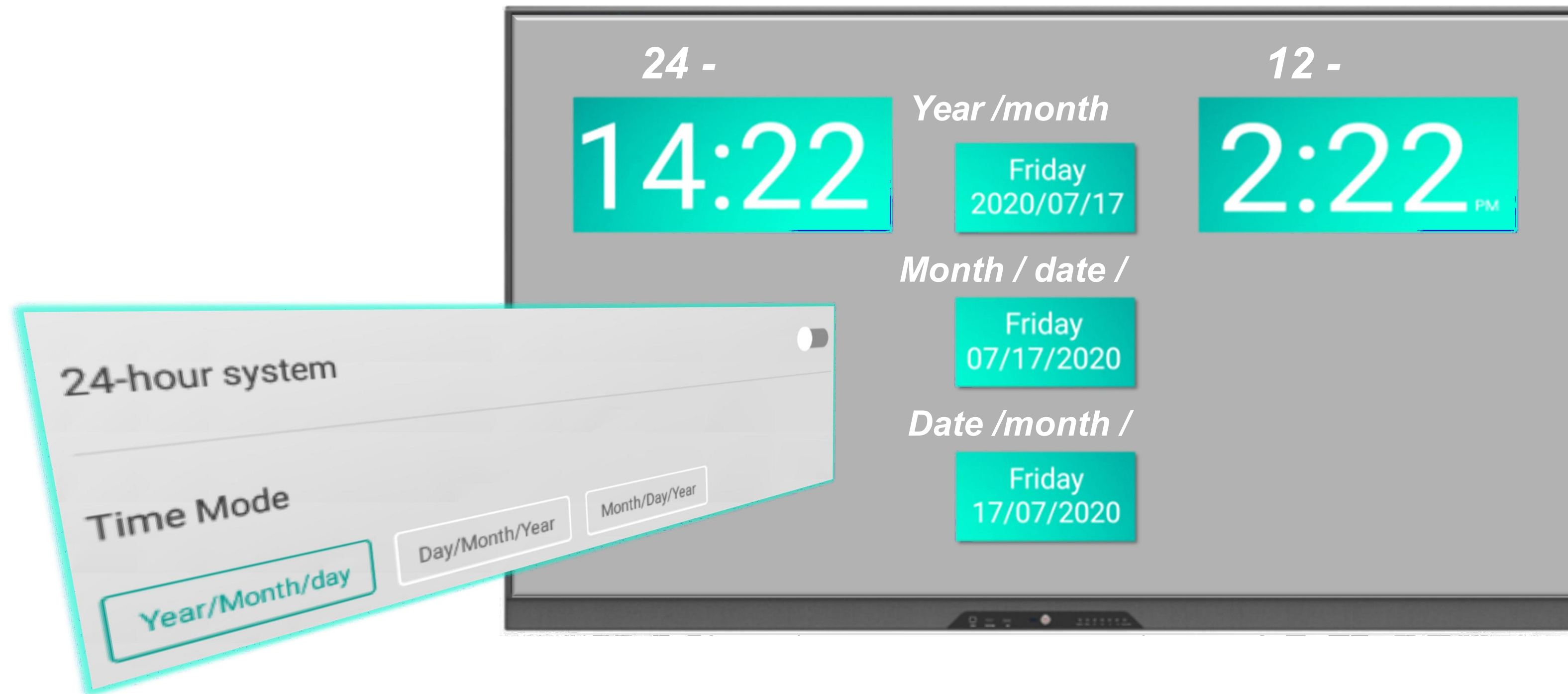
You can connect the HDMI cable between IFPD HDMI output port and HDMI input port of any display device like TV or monitor so that you can see the same resolution image of IFPD on the display device.



Year / month / date setting on HOME

Time setting can be displayed in 24-hour system or 12-hour system on Home screen

and the date settings can be displayed in three type, year / month / date or month / date / year or date / month / year.



E-user manual

Without internet connection user can open the user's manual.

When the language changes, the language of user's manual change as well. (English and Korean, Japan only)

Settings

Volume

Scheduled Power-on/off

System Capacity

Time & Language

Restore Factory Settings

About the Device

Device Name

Android Version

Up time

System runtime

User-Manual

Firmware Version

IFPD >

8.0.0

0:08:53

8:42:14

V1.0.0.1(202006101857_13926)

MODEL: 55, 65, 75, 85

8. Important Safety Instructions

[SAFETY WARNINGS]

• To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.

• To prevent injury, this product must be securely attached to the floorwall in accordance with the installation instructions.

• To reduce the risk of electric shock, do not touch the internal components.

• Refer to qualified service personnel if necessary.

Icons used in this manual

CAUTION

WARNING

NOTE

WARNING

CAUTION

NOTE

• This device complies with part 15 of the FCC rules. It may cause interference, including interference with other devices that may be in the same area.

CAUTION: Changes or modifications not approved by the FCC could void your warranty.

3.2.1 3D View

3D View

3D View

Power Control and AC IN

Power Control and AC IN

Rear Panel Connections

Rear Panel Connections

4. Remote Controller

Remote Controller

Remote Controller

Key name

Description

ON/OFF

Power ON/OFF

MUTE

Toggles sound status of speaker

SOURCE

Activates OSD menu of input source selecting. Navigates input source downwards.

FREEZE

Allows you to capture and freeze an image from a moving image that you are watching.

WDR

Wide Dynamic Range (WDR) mode

DP

Display Port

ECO

Adjust Backlight

OSD

OSD menu

VSA

VSA mode

DIAGONAL

Diagonal mode

MIRROR

Mirror mode

EYE

Eye Protection On/Off

MENU

Activates main OSD menu

EXIT

Closes main OSD menu

INFO

Shows the current external input

Left/Right/Up/Down

Press these to adjust or select TV menu, or select APP under Android system

OK

Select the highlighted menu option

PANEL

Dynamic/Normal/MSD/Game/User

SHR

Shrink/Stretch/Speed/Zoom

VOL +

Volume Up

VOL -

Volume Down

PREV

Press this key to go to the previous chapter or song

PAUSE

Press this key to start to pause the playback in media and android

STOP

Press this key to stop back

NEXT

Press this key to go to the next chapter or song

ANNOTATION

Activates Floating Menu

HOME

Activates Home Screen

TOUCH ON/OFF

TOUCH ON/OFF

Model	ULTRA-8255 (55’')	ULTRA-8265 (65’)	ULTRA-8275 (75’)	ULTRA-8286 (86’)	ULTRA-8298 (98’)
LED Display					
Screen Size	54.64 inches (138)	64.53 inches (163)	74.52 inches (189)	85.60 inches (219)	98 inches
Active Area (mm)	1209.6 * 680.4	1428.48 * 803.52	1649.664 * 927.936	1895.04 * 1065.96	2158.848 * 1214.352
Aspect Ratio	16 : 9				
Resolution	3840×2160				
Pixel Pitch(mm)	0.315 x 0.315	0.372 x 0.372	0.4296 x 0.4296	0.4935 x 0.4935	562.2um x 0.5622um
Brightness	350cd/m²				
Contrast Ratio	1300:1 (Typ)		1100:1 (Typ)	1200:1 (Typ)	
Response Time	9 ms (Typ. G to G)		8 ms (Typ. G to G)		
Color Rate	10-bit(D), 1.07 Billion colors				
View Angle (CR>10)	Viewing angle free (R/L 178 (Min.), U/D 178 (Min.))				
Touch Panel					
Touch Technology	ULTRA SLIM IR (Infrared)				
Detect Area (mm)	1209.6 * 680.4	1428.48 * 803.52	1649.664 * 927.936	1895.04 * 1065.96	2158.848 * 1214.352
Touch Point	Windows: 20 points, Mac OS: 2 points (Mac with driver software), Android: up to 20 points				
Touch Tools	Hand or other Solid Object (Pen tip <Φ3.0mm)				Hand or other Solid Object (Pen tip >2.0mm)
Driver	Plug & Play Compatible				
Communication	USB				
Calculate	AUTO				
Resolution	32768×32768				
Resonse Speed	<10 ms (1 Touch)				<12 ms (1 Touch)
Linear Torrance	+/- 1 mm				
Operation System	Windows 7 and above / Mac 10.10 and above / Linux / Android				
I/O					
Front Panel Terminals	HDMI x1,USB-A x 1 ,USB-B (For Touch) x 1				
Input Terminals	Camera In,Mic In, VGA x 1 , USB-A x 2, LAN(RJ45) x 1, USB-B(For Touch) x1, HDMI(2.0) x 3 (1 for OPS), DP1.2a x 1, PC Audio-In(3.5mm) x 1, TF Card x 1, AV IN x 1				Camera In,Mic In, VGA x 1, USB-A x 3, LAN(RJ45) x 1, USB-B(For Touch) x2, HDMI(2.0) x 3 (1 for OPS), VGA Audio In x 1, DP1.2a x 1, PC Audio-In(3.5mm) x 1, TF Card x 1, AV IN x 1
Output Terminals	HDMI(2.0) x 1, Earphone x 1, SPDIF x 1 , AV OUT x 1				HDMI(2.0) x1, Earphone x 1, LAN(RJ45) x1

Communication Terminals	RS232 x 1 (D-SUB9/RJ45)				
Android System					
Main Chip	Mstar MSD8386/MS848				Mstar MSD8386/MS848
CPU	A73*2+A53*2				A73*2+A53*2
GPU	G51MP				G51MP
RAM	3G Bytes DDR4 2400MHZ				2G (1G build in+0.5G*2) Bytes DDR4 2400MHZ
FLASH	32G Bytes EMMC5.1 nand fiash				32G Bytes EMMC5.1 nand fiash
Android Version	8.0(Oreo)				8.0(Oreo)
OPS / Wifi					
OPS / Wifi	OPS Slot Only (Intel Standard)				OPS Slot Only (Intel Standard) / Wifi (ANT1: 2.4G Wifi, ANT2: BT, ANT3: 2.4G+5G Wifi)
Front Panel Button	Power On/Off				
	7 function key: Source, Menu, Menu Up/Down, VR Up/Down, Touch On/Off				
OSD Control Function	RS232C, IR Remote controller				
Quality Certificates	CB, CE, FCC, NRTL, KC, RoHS, EAC, PSE, RCM				
Power Supply & Speaker	AC100-240V 50/60 Hz				
	AC100-240V 50Hz , Standby Power Consumption ≤ 0.5 W				AC100-240V 50Hz 30mA , Standby Power Consumption ≤ 0.5 W
	Speak: (Stereo 20W × 2 6Ω, with woofer)				
Front Protect Glass / Haze	Anti-Glare(T= 4 mm)				Anti-Glare(T= 5mm) /Haze = 8%~12%
Frame Type / Surface treatment	Aluminum				Aluminum / Both side AG(Anti-Glare) Coating, AF (Anti-Finger) Coating
Working Temp.	0 ~ 40°C, 20% to 80% RH (no condensation)				
Storage Temp.	- 20 ~ 60°C				
Dimension (L*W*D, ± 5mm)	1277 x 812 x 100mm	1486 x 923 x 93 mm	1713 x 1053 x 93 mm	1959 x 1191 x 91 mm	2231 x 1344 x 118 mm
VESA Mount	400 x 300 (mm), M8 Screw		600 x 400(mm), M8 Screw	800 x 400 (mm), M8 Screw	
NET Weight	~42.5 Kg(TBD)	~41.5 Kg(TBD)	~61.5 Kg(TBD)	~77.5 Kg(TBD)	~132 Kg(TBD)
Gross Weight	~50 Kg(TBD)	~51 Kg(TBD)	~76.5 Kg(TBD)	~94 Kg(TBD)	~150 Kg(TBD)



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