

User Manual

EPD Monitor

Model:

ESX32LNLd / ESX32LNLc /

Engage MediaBoard 32W, Jetblack



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Document History

Title: ESX32LNLd / ESX32LNLc / Engage MediaBoard 32W, Jetblack User Manual

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Version	Update	Remark
Ver. 1.0	Apr. 2024	First issue.

Important Safety Instructions

Before using this display, please read this user manual thoroughly to help protect against property damage and to ensure your personal safety and the safety of others.

- Be sure to observe the following instructions.
- For your safety, be sure to observe the warnings located in this manual.
- For installation or adjustment, please follow the instructions in this manual and refer all servicing to qualified service personnel.

Safety Precautions

If smoke or a peculiar smell comes from the display, remove the power plug from the outlet immediately.

Failure to do so may result in fire or electrical shock. Contact your dealer for inspection.

If the display has been turned on but there isn't a picture, remove the power plug from the outlet immediately.

Failure to do so may result in fire or electrical shock. Contact your dealer for inspection.

If water is spilled or objects are dropped inside the display, remove the power plug from the outlet immediately.

Failure to do so may result in fire or electrical shock. Contact your dealer for inspection.

If the display is dropped or the cabinet is damaged, remove the power plug from the outlet immediately.

Failure to do so may result in fire or electrical shock. Contact your dealer for inspection.

Battery Installation and Warning

Read the Manual

Always read and understand the user manual provided with the battery before use. Follow all instructions and warnings carefully.

Keep Away from Children

Batteries can be harmful if swallowed. Keep batteries out of reach of children and pets. If swallowed, seek medical attention immediately.

Avoid Extreme Temperatures

Do not expose the battery to extreme temperatures (high heat or freezing temperatures). Avoid leaving batteries in direct sunlight, near heaters, or in vehicles during hot weather.

Storage

Store batteries in a cool, dry place away from direct sunlight and heat sources. Do not store batteries loose in pockets or bags where they may come into contact with metal objects, such as coins or keys, which can cause short-circuiting.

Dispose Properly

Dispose of batteries according to local regulations. Do not dispose of batteries in fire, as they may explode. Some batteries contain hazardous materials and should be recycled or disposed of properly.

Do Not Disassemble

Do not disassemble, crush, puncture, or modify the battery in any way. This can lead to leakage, fire, or explosion.

Check for Damage

Before use, inspect batteries for any signs of damage, leakage, or swelling. Do not use damaged batteries.

Avoid Water Exposure

Keep batteries away from water and moisture. Do not immerse batteries in water or expose them to rain.

Use Correct Polarity

When inserting batteries into devices, ensure they are inserted in the correct orientation (+ and -). Reversing the polarity can damage the device and the battery.

Ventilation

Ensure proper ventilation when using batteries in enclosed spaces. Do not cover or block ventilation holes on battery-operated devices.

Avoid Mixing Batteries

Do not mix old and new batteries, or batteries of different types or brands, in the same device. This can lead to uneven discharge and potentially cause leakage or rupture.

Battery Life

Replace batteries as needed and do not attempt to recharge non-rechargeable batteries.

Keep Away from Combustible Materials

Do not place batteries near flammable or combustible materials.

Follow Manufacturer's Instructions

Follow all instructions provided by the manufacturer for safe and proper use of the battery.

Cleaning

If dust has collected on the power plug, removed the plug from the outlet and clean off the dust.

Dust build-up may cause a fire.

Take off the power plug before cleaning.

Failure to do so may result in electrical shock or damage.

Cleaning the surface of the display

- When the surface of the display becomes dirty, please wipe the surface lightly with a soft clean cloth.
- If the surface requires additional cleaning, lightly moisten the cloth.
- Do not let any kind of liquid enter the display as it may cause electrical shock or damage.
- Do not clean the display with alcohol, solvents or ammonia, as this could damage the display.

Warnings

Use

- Do not use the display lying flat on its back.
- Transport the display upright with proper packaging. Avoid placing the display face up or down. Be careful not to bump to the display.
- Do not send a static (non-moving) image to the display, or it may cause image 'burn-in' or image retention.
- "Burn in" and/or image retention is not covered under warranty.
- Make sure to change the image on the display periodically. It is recommended to (1) turn off the display for at least 6 hours after 18 hours of usage in a 24 hour period to help avoid image retention and (2) to turn the "IRFM" function to "**ON**" in the OSD menu (under "**Advanced Settings**").
- **Warning** - The fuse cannot be intended to be replaceable.
- **Mise en garde** - le fusible ne peut pas être remplacé.

Exemptions

- This product isn't warranted for any damage caused by natural disaster (such as earthquake, thunder, etc.), fire, acts by third parties, accidents, owner's intentional misuse and fault, or use in other improper conditions.
- This product isn't warranted for incidental damages (such as profit loss or interruption in business, modification or erasure of record data, etc.) caused by use or inability to use of this product.
- This product isn't warranted for any damage caused by inappropriate operation, or from not following the user manual.
- This product isn't warranted for any damage caused by misuse or malfunction through simultaneous use of this product and the connected equipment or software.
- This product isn't warranted for any damage caused by neglect of the instructions described about installation.
- This product isn't warranted for any damage caused by improper installation.
- This product isn't warranted for any damage caused by disassembly, modification or repair by non-authorized service center or people.

Compliance Information

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

RF Exposure warning

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

Industry Canada Equipment Standard for Digital Equipment (ICES) –Canada Compliance Statement

This Class B digital apparatus complies with Canadian ICES-003. CAN ICES-3 (B)/NMB-3(B)
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Innovation, Science and Economic Development Canada(ISED) Compliance Statement

This device complies with ISED's licence-exempt RSS standard(s).

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

Caution:

User should also be advised that:

- (i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
- (ii) the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall comply with the e.i.r.p. limit; and
- (iii) the maximum antenna gain permitted for devices in the band 5725-5825 MHz shall comply with the e.i.r.p. limits specified for point-to-point and non point-to-point operation as appropriate. High-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Les utilisateurs devraient aussi être avisés que

(i) les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;

(ii) le gain maximal d'antenne permis pour les dispositifs utilisant les bandes 5250-5350 MHz et 5470-5725MHz doit se conformer à la limite de p.i.r.e.;

(iii) le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5725-5825 MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.

De plus, les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

Radio Frequency (RF) Exposure Information

The radiated output power of the Wireless Device is below the Innovation, Science and Economic Development Canada (ISED) radio frequency exposure limits. The Wireless Device should be used in such a manner such that the potential for human contact during normal operation is minimized.

This device has also been evaluated and shown compliant with the ISED RF Exposure limits under mobile exposure conditions. (antennas are greater than 20 cm from a person's body).

informations concernant l'exposition aux fréquences radio (RF)

La puissance de sortie émise par l'appareil de sans fil est inférieure à la limite d'exposition aux fréquences radio d'ISED Canada (ISED). Utilisez l'appareil de sans fil de façon à minimiser les contacts humains lors du fonctionnement normal.

Ce périphérique a également été évalué et démontré conforme aux limites d'exposition aux RF d'ISED dans des conditions d'exposition à des appareils mobiles (antennes sont supérieures à 20 cm à partir du corps d'une personne).

Product Features

The 32 EPD is the world's first environmentally sustainable, high-resolution, full-color programmable wireless poster. Using cutting-edge Spectra 6 ePaper technology that supports 2560x1440 Pixels resolution and can display 60,000 colors.

Features

- 2560x1440 Pixels, 70,000 Colors
- Cutting-edge Spectra 6 ePaper technology
- Upload images via Wi-Fi from PC or Mobile Device
- Uses 1% of the Power Required by Traditional Digital Signs
- Environmentally sustainable, meet/exceeds Corporate ESG Goals
- Standard Cloud API for Integrating with existing CMS systems.
- Cloud-based Provisioning and Management

Package Contents

Unpacking

- The ESX32LNLD / ESX32LNLC / Engage MediaBoard 32W, Jetblack display is packed using cushions to protect the display during shipping.
- Before unpacking your display, prepare a stable, level, and clean surface near a wall outlet.
- Set the display box in an upright position and open from the top of the box before removing the top cushions.
 - Step 1: Remove the white handle and cut the banding
 - Step 2: Remove the top cushion and take the accessory bag out.

Packing List

1

2

3

DRAWING NAME	
CAVITY/SET	
CAV. MATERIAL	

REV	DESCRIPTION	DATE	APP.
△			
△			
△			

1

2

3

4

5

6

FRONT

Top of the cardboard box

Upper fold lines

Lower fold lines

EPD FRONT

Bottom of the cardboard box

Item	Part Name	Part NO.	Q'ty
1	EPD32"		1
2	EPE_CUSHION-R	1C1DDE032E1-AA	1
3	EPE_CUSHION-L	1C1EDE032E1-AA	1
4	Desiccant	1C4AXXXXXX1-AA	1
5	PE Bag	1C2ADE032E1-AA	1
6	CARTON	1C1ADE032C1-AA	1

NOTES: All parts must accord with R.O.H.S. norm.

EPD 32" Packaging Schematic

NO	MODEL NO.	PARTS NAME	PARTS NO.	MATERIAL/FINISH
APPROVALS		DATE	SCALE	UNIT
DESIGN: R.M. Hsieh		2024/4/2	NTS	MM
CHECKED: S.C.Kuo		2024/4/2	SHEET: 1 OF 1	DO NOT SCALE DRAWING
APPROVAL: Ader Dla		2024/4/2	AGILE	

TOLERANCE LIMITS	REV.
0-50mm	2A
50-100mm	2A
100-300mm	2A
300-600mm	2A
600-1000mm	2A
1000mm -	2A
ANGLES	2A

Optional Accessories



Battery

Capacity: 2500mAh
 Charge Voltage: 16.8V
 Charge Current: 520mA
 Discharge Cut-off Voltage: 12.0V
 Connector: DC female jack (OD=5.5, ID=2.1mm)

- This product is intended to be supplied by approved external power source (UL listed / IEC 60950-1 / IEC 62368-1) which output is complied with ES1/SELV, PS2/LPS, output rating 5Vdc/3A min. or 9Vdc/1.7A min. or 12Vdc/1.25A min. or 15Vdc/1A min. or 19Vdc/0.8A min. or 20Vdc/0.75A min. (For USB Type C input construction), ambient temperature 40 °C minimum. If need further information or assistance, please contact to AGILE representative.
- For Class I external power source shall be connected to a socket outlet with earthing connection.



CAUTION

About the battery

Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.



This product has another model supporting type-c power input, the max power input is 65W. ADS will provide type-c cable as an accessory.

Type C pin connector



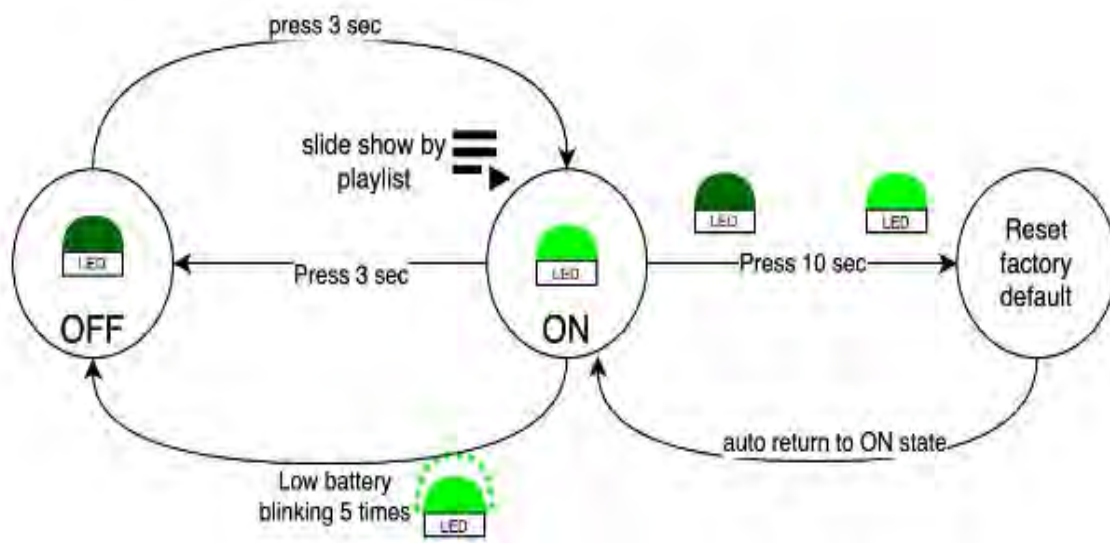
Pin No.	Pin Function	Pin No.	Pin Function
A1	GND	B1	GND
A2	TX1+	B2	RX1+
A3	TX1-	B3	RX1-
A4	VBUS	B4	VBUS
A5	CC1	B5	SBU2
A6	D+	B6	D-
A7	D-	B7	D+
A8	SBU1	B8	CC2
A9	VBUS	B9	VBUS
A10	RX2-	B10	TX2-
A11	RX2+	B11	TX2+
A12	GND	B12	GND

Operating the Display

Button Functions

Status	Action	EPD	LED
Power Off	Press and hold the button for 3 seconds	Power On	ON
Power On	Press and hold the button for 3 seconds	Power Off	OFF
	Press and hold the button for 10 seconds	Back to the default setting	ON -> OFF -> ON
	Press the button 8 times within 5 seconds	Enter Factory Mode	ON
Factory Mode	Press once	Switch testing pattern	ON

LED Indicator



Battery Installation & Removal

1. Remove the battery cover



2. Ensure correct alignment of the battery panel before installing or removing the battery.



CAUTION

About the remote control

- ◆ Don't drop, shake or bump.
- ◆ Don't place on wet materials.
- ◆ Don't dismantle.
- ◆ Don't place in locations with exposure to high-temperature or high-humidity levels.

Troubleshooting

Before calling service personnel, please check the following chart for a possible cause to the trouble you are experiencing.

- ◆ Perform the adjustments according to page 16 “Operation The Display”
- ◆ If the problem you have experienced isn't described below or you can't correct the problem, stop using the display and call service personnel or your dealer.

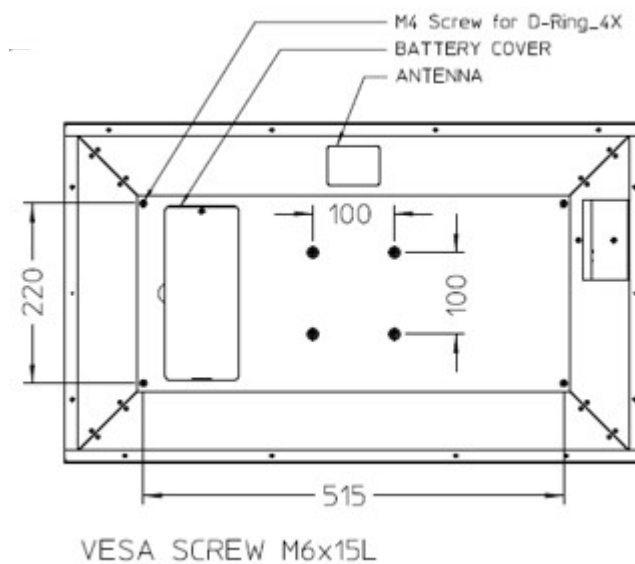
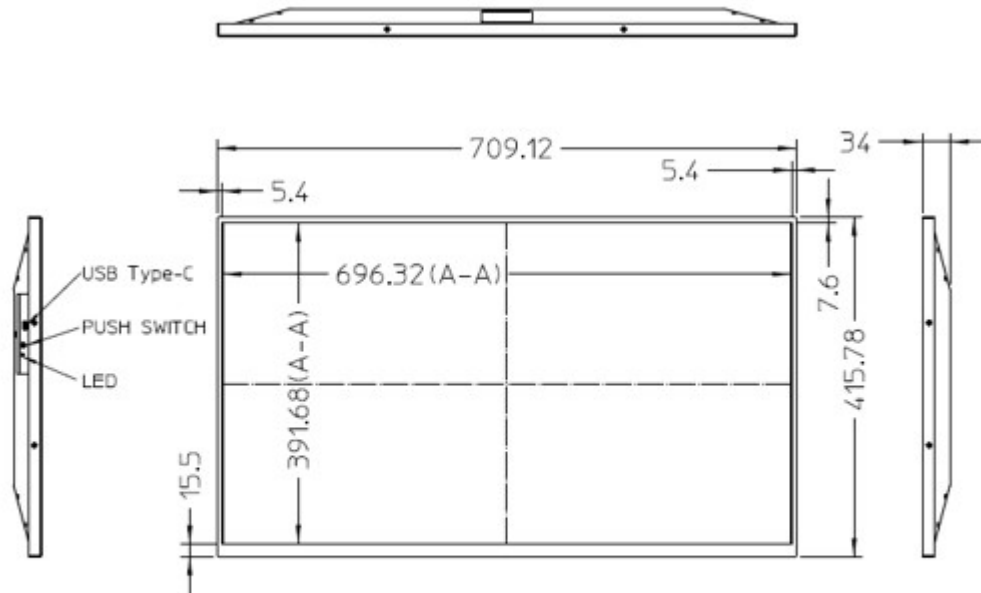
Problem	Check these things
No Display	Ensure the power plug is installed correctly on both ends Check the main power switch is set to “—” Check that source equipment is operating correctly Check the input signal is compatible with this display Check the LED light
The image is not centered	Check the input signal is compatible with this display
The image is not locked correctly	Check the input signal is compatible with this display
The remote control doesn't work	Make sure the batteries fresh and are installed correctly Ensure the remote is aimed at the IR sensor on the front of the display Some functions are not available with this display, see page 20
The picture color looks poor	Check the picture settings Reset the display
Touch does not function	Ensure the USB cable is installed correctly on both ends Power the display off and on to recognize if a new PC is connected
Touch is not accurate	Calibrate the touch screen as shown on page 38

Specifications

ESX32LNLd / ESX32LNLc / Engage MediaBoard 32W, Jetblack	
DISPLAY	
Size (Inch)	31.5"
Resolution	2560x1440 Pixels
Finish	Matte Reflective (Paper-Like)
Pixel Density	93 PPI
Colors	70,000 Colors
Time to Change Image	approx. 18 Seconds
Construction	Metal
Mounting	100 x 100 VESA
Portrait / Landscape	Mount Horizontally or Vertically
PROCESSING	
CPU	ARM A55 Quad Core
Storage	16 GB
Controls	On/Off, Refresh
Firmware Updates	Automatic Over-the-Air (OTA) Updates
CONNECTIVITY	
Wireless Connectivity	Wi-Fi
System Monitoring	Monitor Device from the Internet
Wired Power	USB-C (Optional)
POWER	
Battery Type ^{*1}	Rechargeable Lithium Ion
Nominal Battery Life	12 Months
Wired Power	USB-C (Optional)
ENVIRONMENT	
Operating Temperature	0°C - 40°C
Operating Humidity	20 - 80% RH
DIMENSIONS	
Dimensions	415.7 x 709.1 x 34.0 mm
Weight	4 kg

*1: Battery and charger are sold respectively.

Dimensions (ESX32LNLd / ESX32LNLc / Engage MediaBoard 32W, Jetblack)



Appendix I: Installing a Wall Mount

1. Follow the manual instructions for the type of mount you have selected. Refer all servicing to qualified service personnel.
2. Moving the display requires at least two people.
3. Before installing, please make sure the wall is strong enough to hold the necessary weight of the display and the mount.

Step1. Keep the display facing the ground and place it on a flat object.

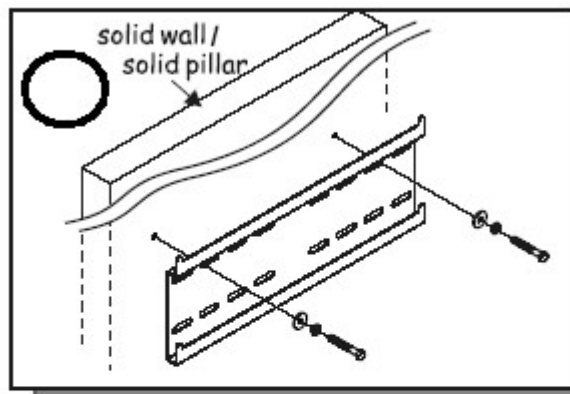
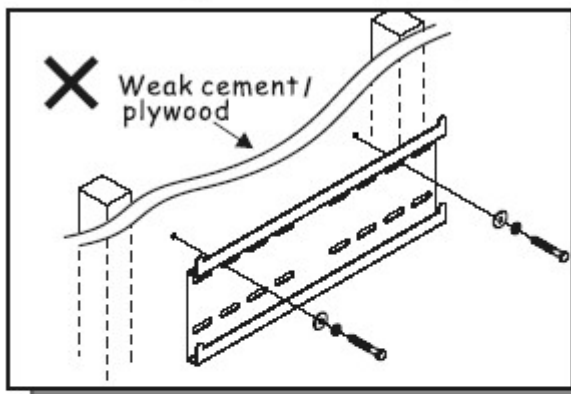
Step2. Remove the 6 screws (M6*15) from the back of the display.

Step3. Align the wall brackets with the mounting holes and attach the brackets to the display using the screws removed in Step 2.

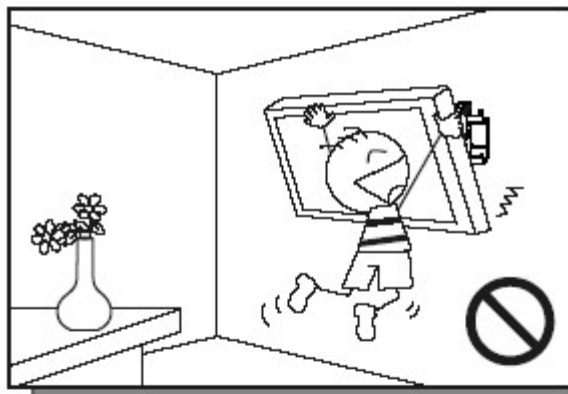
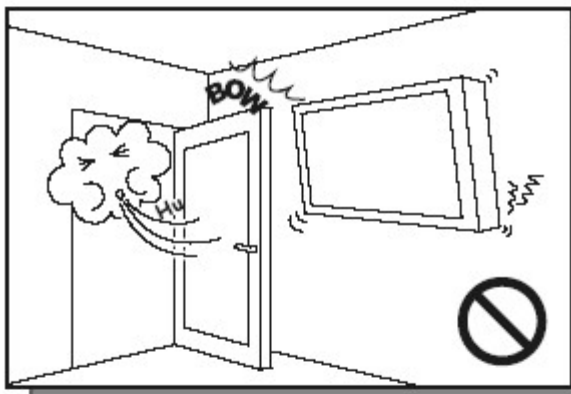
Caution: Longer screws will damage the display.

Appendix II: Wall Mount Safety Notes

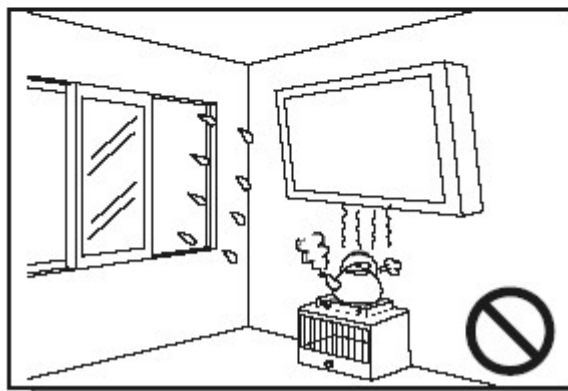
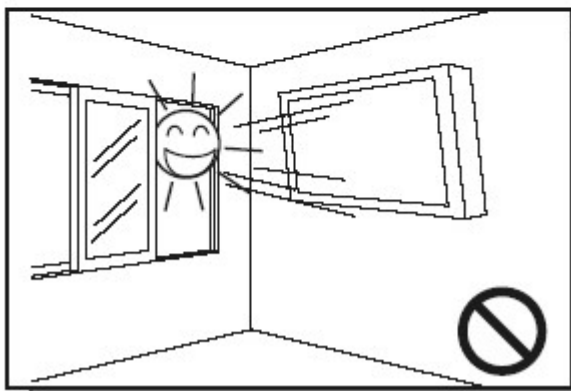
1. Please make sure if the bracket is fixed to the solid wall / solid pillar for fear of falling due to heavy weight.



2. After assembling, please don't pull or shake violently.

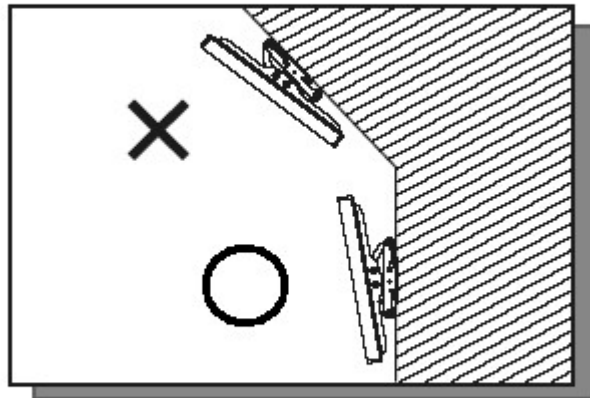
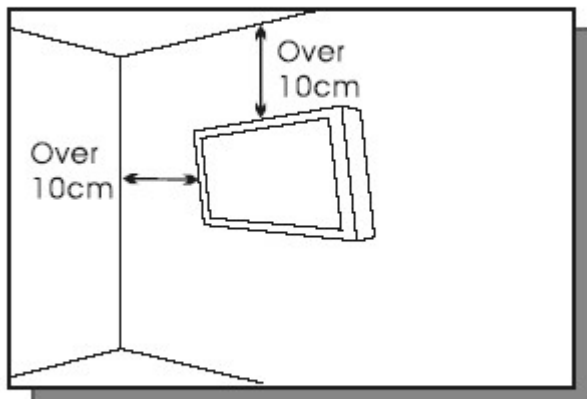


3. Please don't install the bracket directly under the sunshine or humidity / high temperature places for fear that the quality is effected.



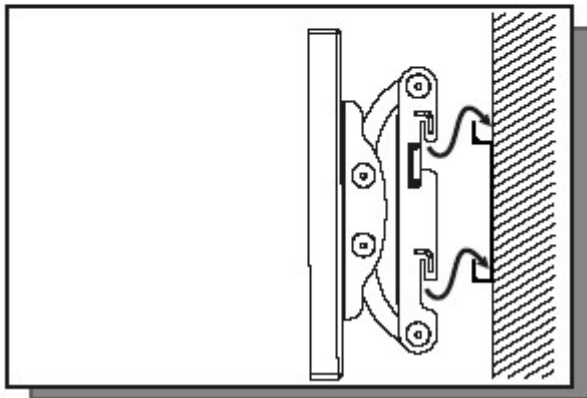
4.

Installing the brakcet over 10 cm from each wall side and being vertical to the ground is the suggested installing position.



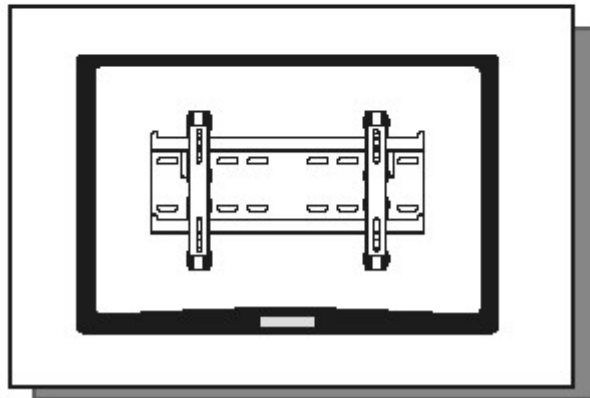
5.

Please make sure to hang on the mounting hooks firmly.



6.

The flat screen must be put in the mid of the bracket for fear of slope.

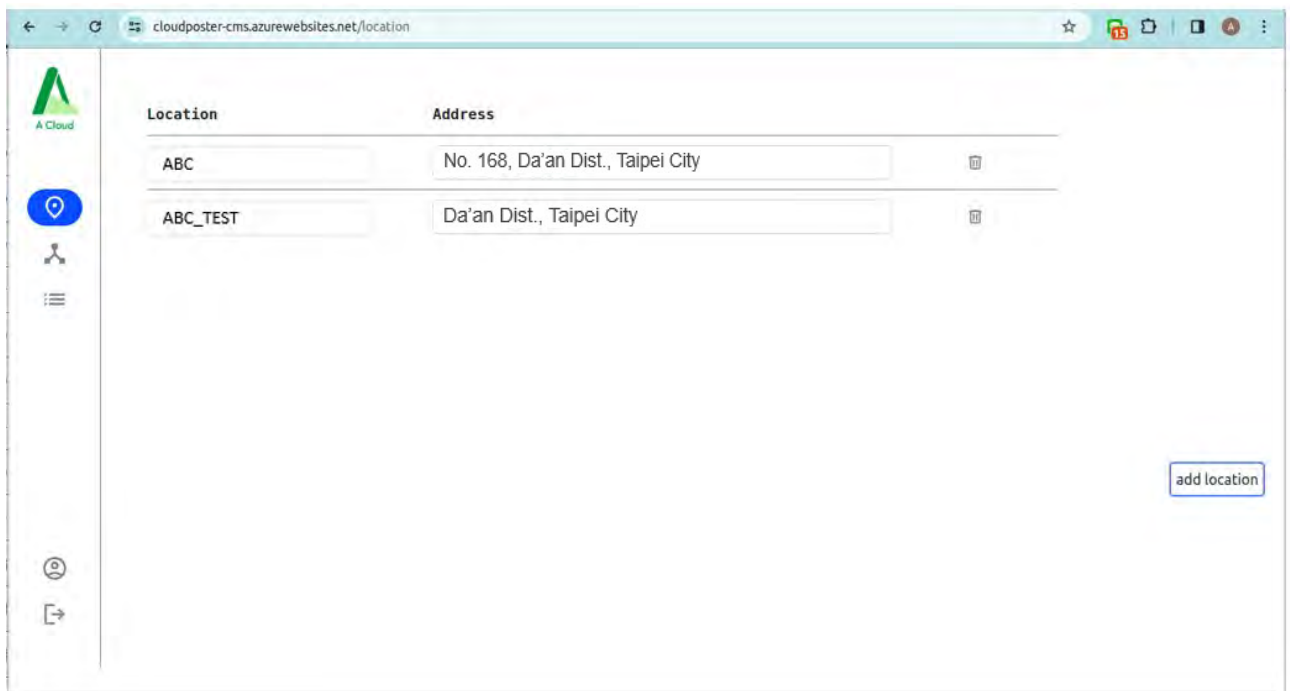


Appendix III: Access ADS CMS Backend Application

URL: : <https://cloudposter-cms.azurewebsites.net/>



Set your Location



Add a New Location

cloudposter-cms.azurewebsites.net says
Please enter location's name.

ABC_TEST

CancelOK

cloudposter-cms.azurewebsites.net says
Please enter address.

Da'an Dist, Taipei City

CancelOK

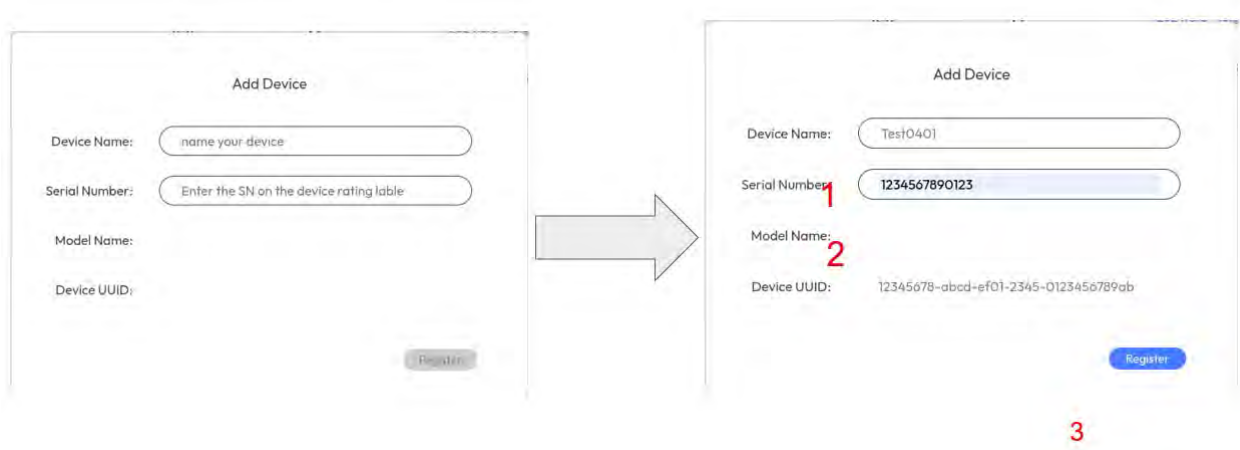
Manage your Devices

A Cloud

Location: All

Device Name	Online	Power	Last Sync Time	Playlist Device / Cloud
Device-12/11/2023			2024/3/8 - 10:52	Newest Newest ...
Device-1/11/2024			2024/3/8 - 10:52	Newest Newest ...
Test0401			2024/4/1 - 5:16	Newest Newest ...

Add a New Devices



Input the Device Info

Device Name: Test0401

Model:

Orientation: Landscape 0°

Serial Number: 1234567890123

device-current-location:

device-new-location: select location

Current Playlist: newTest1

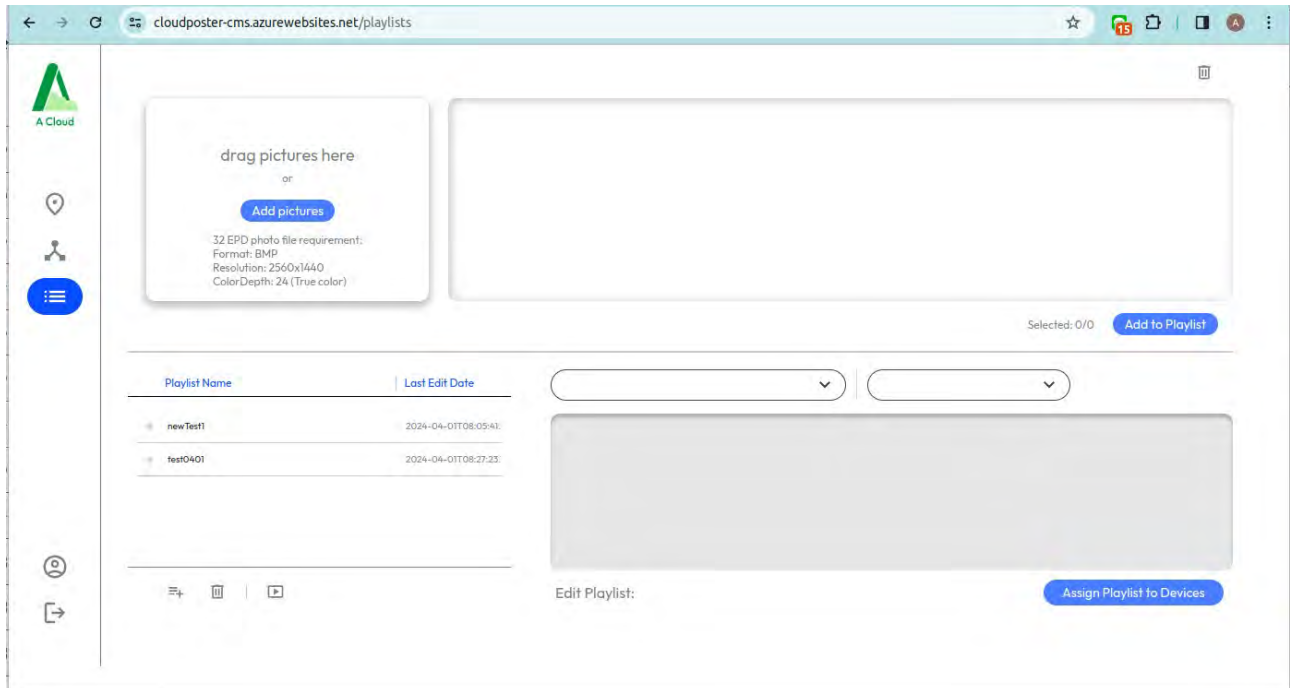
Interval: 0.5 min / per slide

New Playlist: select playlist

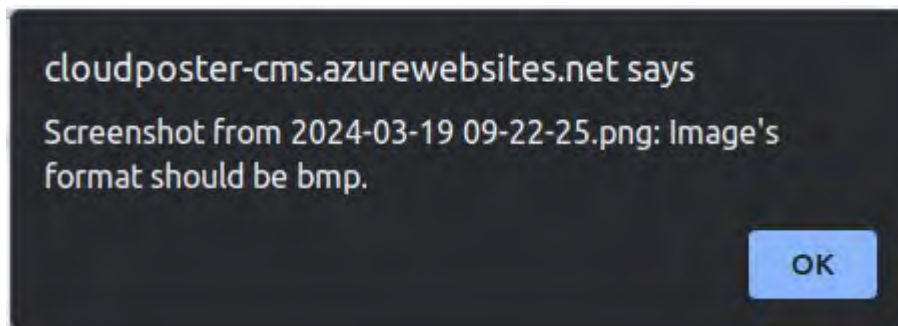
New Interval: 0.5 min / per slide

Save Changes

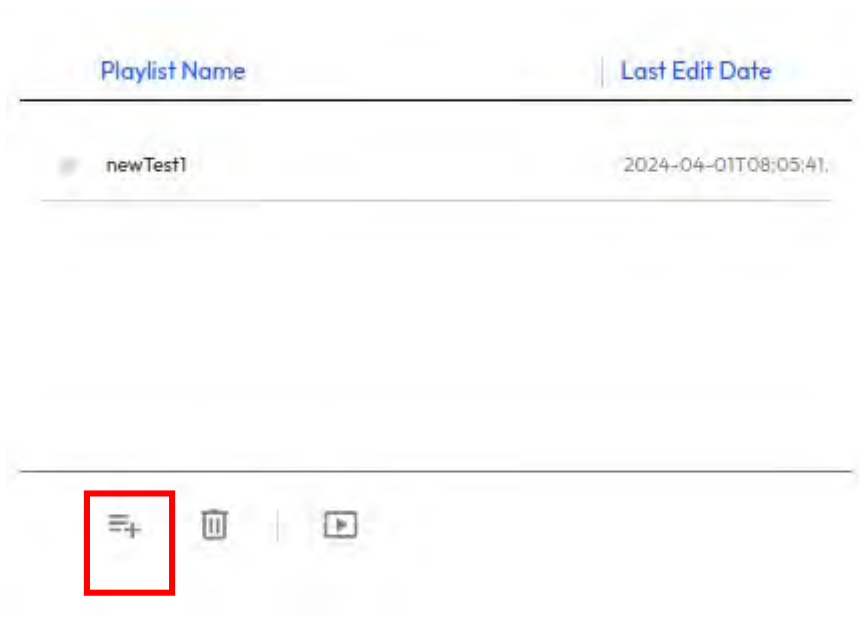
Create & Manage Playlists



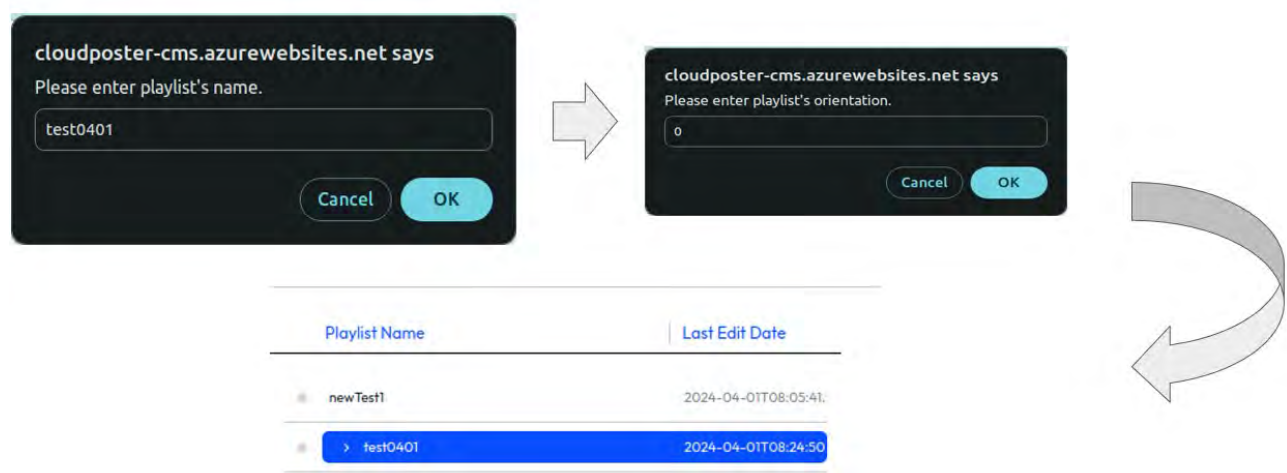
Error Message for Adding Images to your Playlist



Add a New Playlist



New Playlist Setting



Add Images to the Playlist

1. Add images with
2560 x 1440 .bmp (24bits) here

2. Select required images

3. Add to your playlist

4. Model & Orientation Setting
(Only landscape is available currently)

5. Customize your playlist name

6. Assign to your device

After updating the playlist, please restart the EPD.

