



# **XPAND** **Secured 3D Emitter System**

AE125H User Guide

**XPAND™**  
V I S I O N



# XPAND AE125H Secured Emitter System



XPAND 3D IR emitter system generates the encryption signal and the IR signal that synchronizes XPAND 3D IR glasses with digital projector.

## The system consists of:

- » 1x IR Secured Emitter (AE125H)
- » 1x 3D-VESA to BNC sync cable (CAB-01-0301)
- » 1x 24VDC power adapter + 4x interchangeable plug (EU, US, UK, AU)
- » 1x User manual
- » 1x Warranty sheet

## Emitter Overview



- 1 Power LED:** Green color. Represents the power LED. When lit power is ON.
- 2 Power Connector:** 24VDC
- 3 Reverse Push-button:** IR sync signal can be reversed with suppressed push-button.
- 4 Sync Connector:** BNC synchronization signal connector input.
- 5 Sync LED:** Yellow color. When OFF there is no sync signal present. When sync signal is present LED will be ON and it will blink according to sync signal frequency.



The AE125H Secured Emitter. This emitter is designed for short-throw, wide-screened theaters and visualization centers with up to 50 seats. Multiple emitters can be connected in parallel for larger venues. The emitter is designed to be placed near the projector and aimed at the screen, allowing the screen to spread the reflected IR into the theatre.

## Installation

1. Connect 24VDC power adapter to AC power outlet; use one of the included interchangeable plugs that is appropriate for your region.
2. Insert power adapter's output plug into AE125H's power connector ❶. AE125H will turn on automatically and will be in stand-by mode; green LED ❷ will light up.
3. Use included sync cable to connect your projector's 3D-VESA (MINI-DIN-3 female) sync output connector to AE125H's sync connector ❸. If your projector has a different 3D sync output connector please consult with our XPAND technical support team.

## Positioning and Mounting

- » AE125H will emit IR sync signal in one direction at  $\pm 25^\circ$  angle.
- » For maximum range and coverage emitter should point towards theater screen; red window cover facing towards screen.
- » There should be no obstacles between emitter and screen.
- » Emitter has four rubber feet so it can be securely placed on a flat surface.
- » Emitter is equipped with mounting hole ❹ which can be used with XPAND's Wall Mount (sold separately). When mount is used label should be pierced with sharp object where it says "Mounting Hole".





## User Interface

### Power LED ❶

Power LED will indicate that emitter is powered and running.

### Sync LED ❺

Sync LED will not only show whether synchronization signal from projector is present or not. User can also check the functionality of glasses looking at LED through left or right lens; through one it should be bright, through other it should be dim.

### Push-button ❸

Reverse Push-button is used to reverse IR sync signal. Although this can be achieved in projector's setting, it is more convenient to do this on emitter itself where the user can check the picture with 3D glasses right on the spot.

## Troubleshooting

### Emitter is connected but 3D glasses do not work:

- » Make sure power adapter is connected properly. Power LED ❶ should be lit.
- » Make sure sync cable is connected properly and that projector is in 3D mode. Sync LED ❺ should be lit.
- » Make sure that your 3D glasses are turned ON and that they successfully synced with the emitter. Refer to your 3D glasses' manual for instructions on how to sync them with the emitter.



# **General Health and Safety Warning**

## **Warning!**

Carefully read and follow all warnings in the User's Guide to reduce health risks associated with viewing media in 3D. Before allowing a child to view 3D media, Parents or Guardians must read and follow the warnings and ensure that the child understands and follows the warnings.

## **May Cause Seizures**

Some people have a condition that can cause them to experience seizures or lose consciousness momentarily while viewing certain kinds of flashing lights or patterns. These persons may have seizures while watching some kinds of television pictures or playing certain video or computer games. Persons who have not had any previous seizures may still have an undetected seizure condition.

If you or anyone in your family has experienced symptoms linked to a seizure condition, including experiencing seizures or a loss of awareness, consult your physician before viewing 3D media.

We recommend that Parents or Guardians observe their children while the children use 3D glasses. Discontinue use immediately and consult your physician if you or your child experience any of the following symptoms: dizziness, altered vision, eye or muscle twitching, involuntary movements, loss of awareness, unconsciousness, disorientation, or seizures. Do not use 3D glasses for extended periods of time.

## **May Cause Eye Fatigue**

Some users have reported dizziness, headaches, or eye fatigue as a result of viewing media in 3D. Discontinue use if you or your child experience any of these conditions. Do not use 3D glasses for extended periods of time. Parents or Guardians should limit use by children to no more than a few hours per day.

## **Young Children**

The vision of young children (especially children under the age of six) is still under development. Consult your doctor (such as a pediatrician or eye doctor) before allowing young children to watch 3D video images or play 3D videos games. Parents or Guardians should supervise young children to ensure they follow these recommendations.

## **Choking Hazard: Keep Out of Reach of Small Children**

Babies and young children could choke on small pieces associated with 3D glasses. Keep the 3D glasses out of reach of small children.

## **Stereoscopic Viewing May Cause a slight After-Effect in Your Vision**

Your eyes change to accommodate viewing through stereoscopic glasses. Wait a few moments after you remove the 3D glasses for your eyesight to return to normal before resuming your regular activities.



## **Do Not Use 3D Glasses for other purposes than viewing 3D visual content**

Do not wear 3D Glasses as sunglasses or safety glasses. Never wear 3D glasses while driving, swimming, or operating machinery. Do not use near staircases, ledges or balconies. You may risk falling during or after use.

Never use 3D glasses if you are tired, fatigued, or ill.

## **Important Safety Instructions**

- » Read these instructions.
- » Keep these instructions.
- » Heed all warnings.
- » Follow all instructions.
- » Do not use this apparatus near water.
- » Clean only with dry cloth.
- » Only use the attachments/accessories specified by the manufacturer.



## Technical Specifications

**Type of Synchronization:** Infrared light (IR)

**3D Sync Protocol In:** VESA Stereo

**3D Sync Protocol Out:** Encrypted

**Shuttering Frequency:** 96 Hz, 100 Hz, 120 Hz, 144 Hz, 192 Hz and 240 Hz

**High Frame Rate (HFR):** Yes

**Reverse Sync function:** Yes (button)

**Memory:** No memory inside

### **USER Interface:**

- » Power LED
- » Sync LED
- » Reverse Sync Button

### **Mounting Option:**

- » Rubberized feet for positioning on a flat surface
- » Mounting hole for wall mount (mount supplied separately)

**Sync Connector Type:** female BNC

**Power Connector Type:** 5,5 × 2,1 mm socket

**Coverage Range:** 50 seats

**Setup:** Plug&Play

**Sync Cable:** male mini-DIN-3 (VESA Stereo) to male BNC; 2 m / 6.5 ft long

**Power:** 24VDC power adapter; 1,5 m / 5 ft long – EU, USA, UK and AU plug adapters included

**Operating Temperature:** 5 °C – 40 °C / 41 °F – 104 °F

**Dimensions and weight:** 115 × 76 × 36 mm, 166 g / 4.5 × 3 × 1.4 in, 5.9 oz



