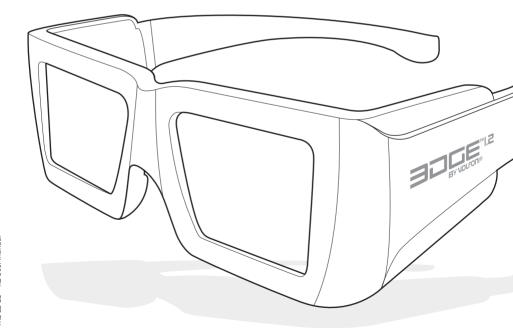


# 3D CINEMA IR SYNCHRONIZER KIT





# **SUMMARY**

# I. 3D KIT PRESENTATION

- 1. General presentation
- 2. 3D kit composition

# II. PRODUCT DESCRIPTION

- 1. Glasses
- 2. IR emitter
- 3. Tester
- 4. Synchronizer

# **III. 3D KIT FASTENING**

## IV. CONNECTION & SYNCHRONIZATION

### 1. GENERAL PRESENTATION

As a result of Volfoni's long experience in managing the world's largest stock of active 3D glasses, EDGE™1.2 benefits from the latest ergonomic and technical innovations. EDGE™'s comfort and easy use is unmatched.

## The power of EDGE™ 1.2

- Exceptional image quality without ghosting, wherever you sit.
- •The brightest light level on the market.
- The 3D kit (infra-red emitter) allows easy integration in less than 30 min with existing digital theaters using a standard screen.

# EDGE™ 1.2 offers all the benefits of active glasses

A full EDGE™ system includes

- EDGE™ 3D glasses
- •3D kit (emitter system)

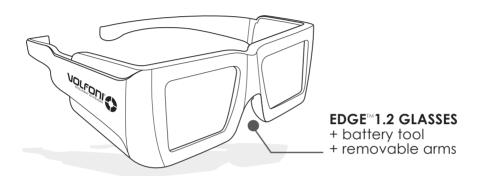
Accessories are available

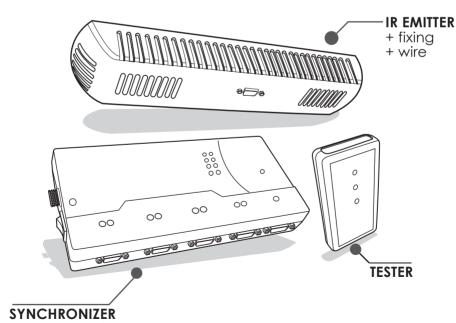
- Antibacterial cleaning wipes
- Battery replacement tool
- Adaptable "arms" to fit any head size

In option: Anti-theft panels & anti-theft tagged glasses

# I. 3D KIT PRESENTATION

## 2. 3D KIT COMPOSITION



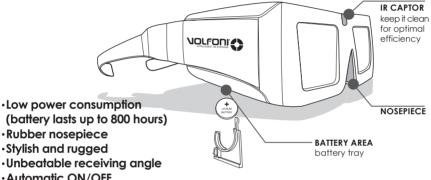


- + power cord
- + GPIO synchronizer cable

Operating Temperature: 0°C -40°C (32F-104F) Storage Temperature: -10°C -50°C (14F-122F)

### 1. GLASSES

The VOLFONI Active 3D Glasses use fast-response liquid crystal lenses to create the best image auglity. It is the brightest and most cost-saving 3D solution currently on the market.



- Automatic ON/OFF
- ·Standard size, replaceable battery
- ·Adaptively synchronizing
- ·Optimal circuit layout
- ·CE certified

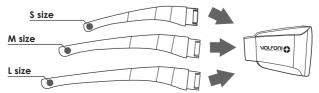
Note: Please, make sure that there is no obstacle in front of the IR captor during 3D projection.

#### **USE AND SETUP**

The 3D glasses do not need any setup to start. It is nevertheless necessary to check all settings and connections of the 3D digital cinema system before projection. When started, the lenses need 2 seconds to warm up and turn into working mode. Then the lenses appear clear. When the 3D projection is finished or turned into 2D, the lenses will remain clear for about 5 minutes. They will go directly into operation mode again when a new signal is received.

### **ARMS**

The glasses come with L size arms, and M & S size arms are available upon request. For easy removal, just push in the new arms until you hear the "click".

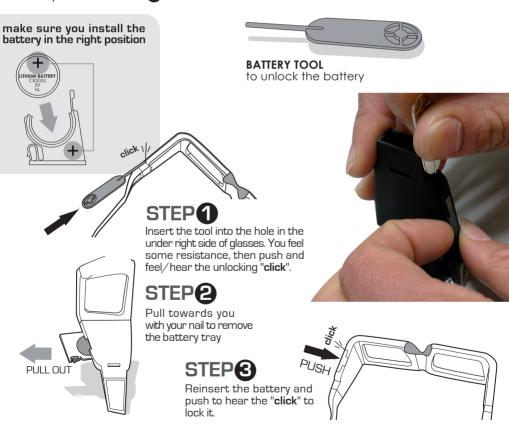


# **II. PRODUCT DESCRIPTION**

### **BATTERY REPLACEMENT**

To open the battery encasement on the right arm of the glasses:

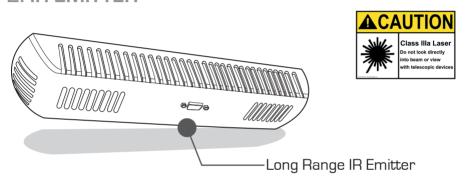
- -Use an instrument such as the Volfoni's battery tool, a paper clip or a prong.
- -Put the glasses on a desk/table as it will be more convenient and easy
- -Find the small hole on the right arm of the glasses, where the arm connects with the battery encasement. 12
- -Put the prong inside and when you hear a "click," you can pop open the battery encasement **3**



Note: When the battery has less than three hours remaining, the lenses will flash once a second to indicate that you must change the battery. It is recommended to check the battery life before distributing to viewers.

Thank you for using our STANDARD ACTIVE 3D DIGITAL CINEMA SYSTEM. Before starting, please check if the following parts are included in the package.

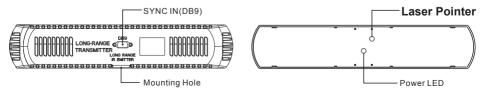
## 2. IR EMITTER



Long Range IR Emitter VAIK-0100 is a compact and powerful unit. The emitter, with many built-in infrared LEDs, allows coverage all types of theater rooms, regardless of the number of seats. 4 emitters can be linked up. Thanks to its lightweight design, VAIK-0100 enhances the heat dissipation (LED life protection). It is provided with a universal mounting head for security, and is easy to install. It is simple to target the screen with the emitter laser pointer.

Please do not put the emitter in front of the audience.

## **Emitter at a Glance**



# II. PRODUCT DESCRIPTION

#### **Basic Specification**

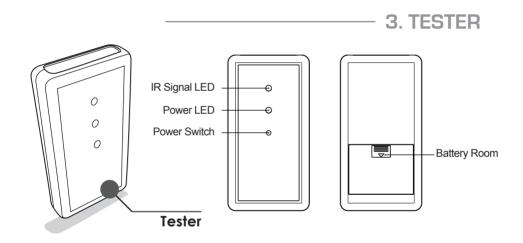
IR Wavelength: 940 nm

Power Consumption: 10W in active status

Laser: Max Output: 0.5mW, Wavelength: 650 nm± 10

Dimension: 361 mm x 70 mm x 44 mm

**WARNING**: The laser pointer of this emitter emits Class IIIA laser. Please DO NOT stare into beam or view directly with optical instruments.

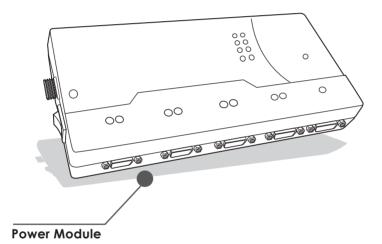


Active 3D Glasses VAIK-0300 is a handy unit to be carried by a cinema technician to check performance of 3D glasses. Turn on the power, then the tester emits low rate IR signal to activate 3D glasses. Working 3D glasses will then show a flickering.

#### **Additional Specification**

Power supply: 3xAA batteries

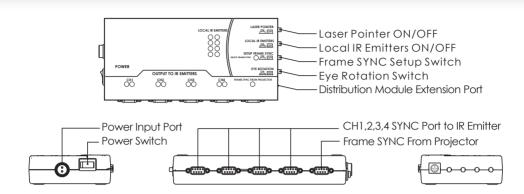
## 4. SYNCHRONIZER



Multi-function Distribution Module

The multi-function Distribution Module is a unit specially designed for mid size and large digital 3D cinemas. This unit is plugged into the digital projector and receives frame synchronizing signal via GPIO (DB-37). It extends to four DB-9 emitter outputs. It also supports the extension of the Distribution Module thanks to a DIN-3 cable, that simplifies cinema wiring. Each port is equipped with an error diagnosis indicating LED.

# **II. PRODUCT DESCRIPTION**



#### **Switch Function Description**

LASER POINTER: ON/OFF switch for each emitter laser.

LOCAL IR EMITTERS: ON/OFF switch for local IR emitters. Location IR emitters

are very convenient to check 3D effect on screen.

**SETUP FRAME SYNC:** Switch on to detect frame synchronizing range.

EYE INVERSION: Switch left/right eye image.

**POWER:** Turn ON/OFF the power of the Distribution Module.

#### Indication LED status definition

 $\textbf{POWER:} \ \mathsf{LED} \ \mathsf{lights} \ \mathsf{come} \ \mathsf{on} \ \mathsf{when} \ \mathsf{power} \ \mathsf{is} \ \mathsf{on}, \ \mathsf{otherwise} \ \mathsf{lights} \ \mathsf{are} \ \mathsf{out}.$ 

CH1: Red LED lights come on when channel 1 IR emitter is detected,

 $Green\, LED\, lights\, come\, on\, if\, the\, IR\, emitter\, is\, activated,\, otherwise\, lights\, are\, out.$ 

CH2: Red LED lights come on when channel 2 IR emitter is detected,

Green LED lights come on if the IR emitter is activated, otherwise lights are out.

CH3: Red LED lights come on when channel 3 IR emitter is detected,

Green LED lights come on if the IR emitter is activated, otherwise lights are out.

CH4: Red LED lights come on when channel 4 IR emitter is detected,

Green LED lights come on if the IR emitter is activated, otherwise lights are out.

**SETUP FRAME SYNC:** LED always light when input frame is synchronized between 130Hz to 150Hz, otherwise LED flickers.

**FRAME SYNC FROM PROJECTOR:** LED light on when frame synchronizing signal is detected from projector.

### **Basic Specification**

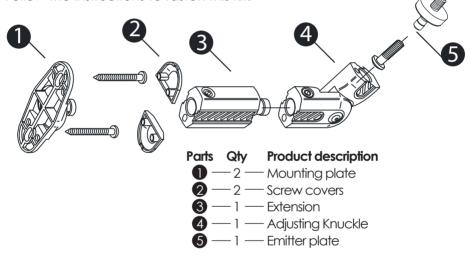
Power Input: 24VDC, 3A

Default Sync In: PIN9 (+) and PIN28 (-) of GPIO(DB-37)

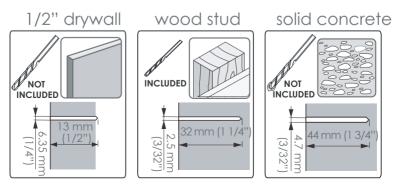
Dimension: 106 mm x 36 mm x 23 mm

### **WALL FASTENER**

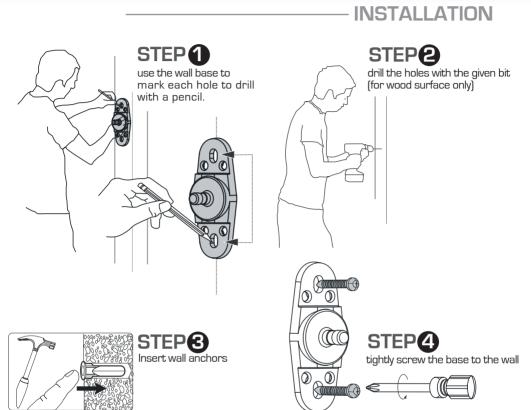
Before installing the emitter in the front of the screen, make sure you have all the needed tools and the instruction manual. This wall fixing part is provided with all the screws and wall anchors you might need. Follow the instructions to fasten this kit.



## **WALL TYPES & HOLES SIZES**

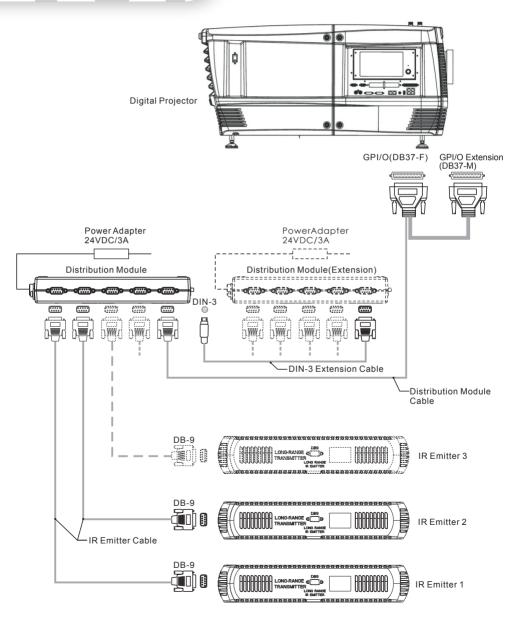


# III. 3D KIT FASTENING



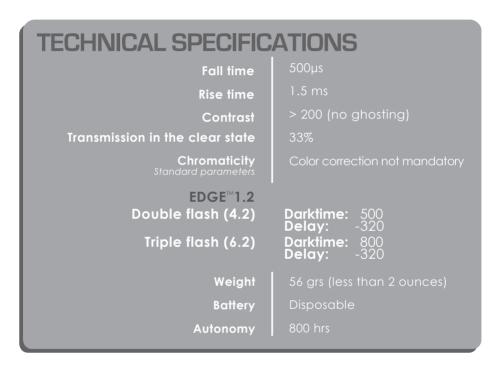


(For solid concrete and drywall only)



# **IV. CONNECTION & SYNCHRONIZATION**

Please refer to the following technical board for the digital projector. These parameters are for information purpose only. They may be adapted if necessary.



**Warning**: Depending on your equipment and the room configuration, you may have to adjust these parameters. We recommend that you confine the setup of 3D parameters and color adjustments directly to integrators.

For further information please visit our website **www.volfoni.com**, or send us an email to **support@volfoni.com**.

#### **VOLFONI SAS**

29, Rue Jean Jaques Rousseau 75001 Paris France

#### **VOLFONI GmbH**

Erzgießereistraße 38 80335 München Germany

#### **VOLFONI Ltd**

21, Tower one Lippo center 89, Queensway Hong-Kong

#### **VOLFONI Inc**

3450, Cahuenga Bd West. UNIT 504 Los Angeles, CA, 90068 USA

### **VOLFONI Ltd.**

90 Long Acre Covent Garden London WC2E 9RZ UK

# **VOLFONI AEIE**

Ronda Guglielmo Marconi, 4 46980 Paterna (Valencia) Spain

support@volfoni.com contact@volfoni.com

www.volfoni.com