

# Learning Glass iC-LGE45 product overview & specifications

| Model Part Number: | iC-LGE45  |
|--------------------|---|
| Model Title:       | Learning Glass Europe, 45" Professional Lightboard with Integrated Camera                                   |
| Model description: | Learning Glass Europe 45-inch Lightboard, with integrated 4K camera, power supply, dimmers, adjustable legs |
| Features:          | Laser tested, low-iron tempered glass. Surface treated for improved scratch resistance and easier cleaning  |
|                    | 4K Camera with 4K@30/25 CMOS 1/2.7" image sensor  |
|                    | Presenter lighting element built into frame (no need for external lights)                                   |
|                    | Internal LED's designed for optimal illumination  |
|                    | Internal LED's AND presenter lights have adjustable brightness control for different filming environments   |
|                    | Designed to be easily transportable   |
|                    | Working surface area: 99cm x 57cm (45inch/114cm diagonal)   |
|                    | Adjustable height: Min 73cm, Max 83cm   |
| Installation time: | 15 minutes  |





#### 1. Introduction

We launched the iC-Learning Glass to enhance the user experience, with the goal to make using our lightboard easier than ever. Our purpose built, integrated, 4K camera (with 4K@30/25 CMOS 1/2.7" image sensor), works seamlessly with the Learning Glass lightboard, making it easy to create powerful, engaging, lightboard content at the touch of a button. The iC-LGE45 Lightboard features our surface treated, smudge-free, safety glass, ensuring best clarity and optical performance. The working surface area is 99cm x 57cm, and at under 11kg, the unit is easily transportable.



Whether you are a teacher, trainer or business professional, this product can be used at home or in the office with minimal set-up time. At a width of 105cm it will rest comfortably on the average desk or table, and with a weight of 11kg is easily transportable. This Lightboard is ideal for users that are looking for a hassle free, 'plug and play 'solution as there is no need to set-up and configure your own camera.

The Learning Glass uses best in-class components. Our LED's are a high quality, high density, silicone encased (waterproof) design. They have been tested with over a 100,000-hour lifespan with little to no degradation in performance. All of our Lightboard products have fitted external presenter lighting elements, designed to eliminate the need for any additional lighting whilst filming. This is extremely critical in avoiding light spillage and unwanted reflections. They produce a natural white light operating at 4000K. Both internal and external LED's have dimmer control units using pulse width modulation (PWM) to control brightness. These control units operate at extremely high frequency (12kHz) to avoid any 'flicker effect' that may occur with cameras operating at different frame rates and shutter speeds.

Assembly time is around 15 minutes and requires one person.

### 2. Lightboard Specifications

| ELECTRICAL                            |                         |  |
|---------------------------------------|-------------------------|--|
| Colour Temperature                    | 4000K                   |  |
| CRI Rating                            | 90+                     |  |
| Max Brightness                        | <4                      |  |
| Viewing Angle                         | 180°                    |  |
| Input Voltage Range                   | 240V                    |  |
| Input Voltage Frequency               | 50-60Hz                 |  |
| Max Continuous Power                  | 40W                     |  |
| MECHANICAL                            |                         |  |
| Dimensions with max height            | 105cm x 83cm x 3cm      |  |
| Work Space - Glass surface (cm)       | 99cm x 57cm             |  |
| Height Min/Max with legs              | 73cm/83cm               |  |
| Frame Material                        | High Strength Aluminium |  |
| Glass Material                        | Diamond™ Tempered Glass |  |
| Weight (with/without camera attached) | 11.5kg/11kg             |  |
| Connectors                            | DC 2.1mm Barrel Jack    |  |
| ENVIRONMENTAL                         |                         |  |
| Operation Temperature                 | -40°C to 85°C           |  |
| Storage Temperature                   | -40°C to 105°C          |  |
| Relative Humidity                     | 40% to 95% Electrical   |  |

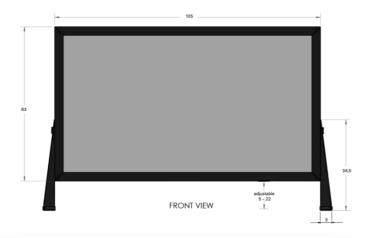


## 3. Camera Specifications

| Image Sensor               | 4K@30/25 CMOS 1/2.7"  |  |
|----------------------------|---|--|
| Max. Resolution            | 3840(H) *2160 (V)   |  |
| Video Formats with laptop  | 4K@30/25 1080p60/50/30/25   |  |
| (Video Formats with XT)    | 1080p30 / 720p30  |  |
| Compression format         | Compressed (H.264) on USB or uncompressed on HDMI   |  |
| Focal Length               | f=2.8mm   |  |
| Min object distance (wide) | 500mm   |  |
| Minimum illumination       | 0.5 Lux @ (F1.8, AGC ON)  |  |
| HFoV                       | 104° (up to 123°)   |  |
| VFoV                       | 68° (up to 80°)   |  |
| Digital Zoom               | 8X  |  |
| Pan and Tilt Range         | ePTZ  |  |
| Connecting Port type       | USB 3.0 & HDMI  |  |
| Serial Control             | Via USB   |  |
| Auto Focus                 | Support   |  |
| Camera mount               | Tripod screw hole (1/4-20 UNC)  |  |
| Video configurations       | White balance (auto/manual); Focus Mode (auto/manual); Sharpness; Backlight; Exposure Compensation; Picture (auto/manual) and WDR level |  |
| Weight                     | 0.34Kg  |  |
| Voltage Range              | DC5V(USB)   |  |
| Current consumption (max)  | 600mA   |  |
| Microphone                 | frequency response 50Hz – 8KHz, 3m radius omni (6m diameter), coverage 360°   |  |
| Far end camera control     | Through XT codec (H.224, H.281)   |  |
| Dimensions (w/h/d)         | 194mm x 34mm x 42mm (without bracket)   |  |
| Operating System support   | Windows, MAC-OS X   |  |

# Learning

# 4. Lightboard Dimensions







Dimensions in centimetres

### 5. Camera Dimensions





## 6. Wiring Block Diagram

# Learning Glass LightGlass Wiring Diagram

