





UNIQUE INITIATIVE- 4 LIGHT BOARD

IQAC, Christ College (Autonomous), Irinjalakuda



FACE STUDENTS
Unlike traditional methods teacher can directly face students while writing on board

TEACH FROM HOME
Desktop version can be installed at teacher's home. Helpful for online classes during pandemic lockdown periods

DYNAMIC DRAWING
Drawings and derivations can be done directly in the class

ENHANCE LEARNER EXPERIENCE
Researchers have found Lightboard enhances the learning experience Fung, F. M. (2017). Adopting lightboard for a chemistry flipped classroom to improve technology-enhanced videos for better learner engagement. Journal of Chemical Education, 94(7), 956-959.



Table of Contents

Introduction	3
Interface Lightboard	3
Interface 1.0	3
Interface 2.0	4
Lightboard – Challenges & Solution	6
Newspaper reports of Lightboard	6
Brochure of Lightboard	8
Outcome of the project	9
Completed two hundred video tutorials using lightboard.	9
Supplied lightboard to five educational institutions	10
National Girls Higher Secondary School, Irinjalakuda	10
Chavara Dharsan Public School, Koonammavu. Ernakulam	11
IMS Learning Centre, Thrissur	12
Edusat Tutions, Kodungalloor,	13
Shared the know how to educational institutions.	14

New teaching aids - Lightboard (2019)

Introduction

One of the major difficulties faced by educators developing online content is about missing the conventional chalk board. Science teachers needed it for derivations, Commerce teachers needed it for accountancy problems and the list was not so small. Michael Peshkin of Northwestern University had come up with this innovative idea; *in which teachers can face directly the students without losing eye contact and can engage the class more effectively*. Lightboard was very soon constructed in house using acrylic glass, led lighting, and SS supports. We could minimize the cost to Rs.17000/ and we are happy to inform you that this was the first light board in the state of Kerala or any college in India.

Interface Lightboard
Interface 1.0

Lightboard being used in the recording room of Christ College

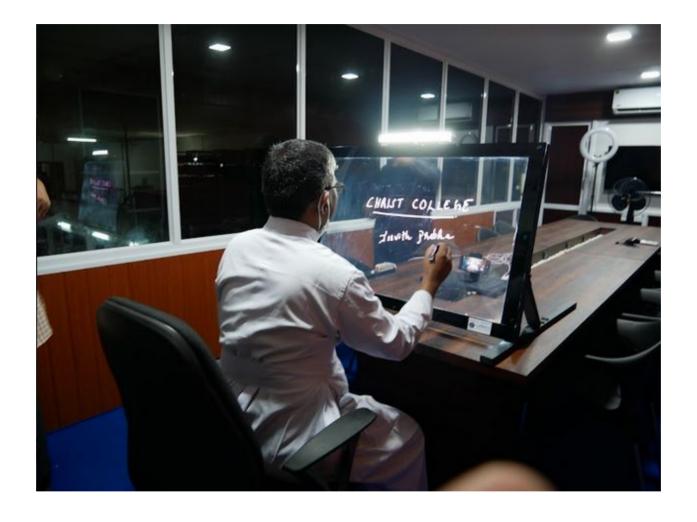


Interface 2.0

Though the first version was successful it was observed that many of the teachers faced problems to take live classes and the cost was comparatively high. The brainstorming and trials soon came up with the solution of desktop version and a suitable android app to flip the live video. The cost came down to Rs. 7000/-. *Live classes can be conducted in google meet, zoom or any video conferencing applications using the Interface 2.0.*



Interface Lightboard 2.0. Using mobile phone and Lightboard for live classes



Desktop portable version of

Interface Lightboard 2.0

Lightboard – Challenges & Solution

Challenge	Solution
The glass used in lightboard is that of acrylic (plexiglass). The	The camera and light adjustments were critical in overcoming the
inherent smudges on the glass are very hard to remove.	smudges on the board.
The fluorescent pen	Pen was procured online.

Newspaper reports of Lightboard



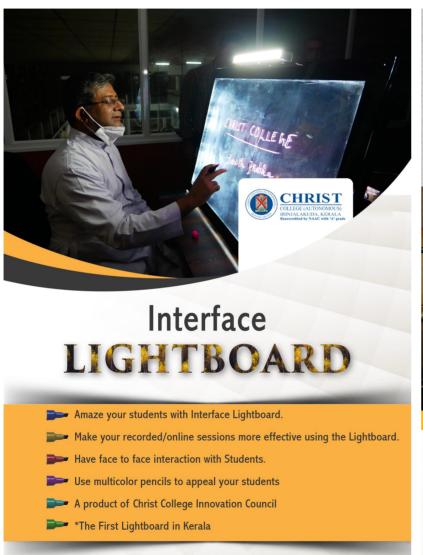
Mathrubhumi dated: 21st March 2020

Deepika dated: 21st August 2021



Deepika dated: 21st August 2021

Brochure of Lightboard

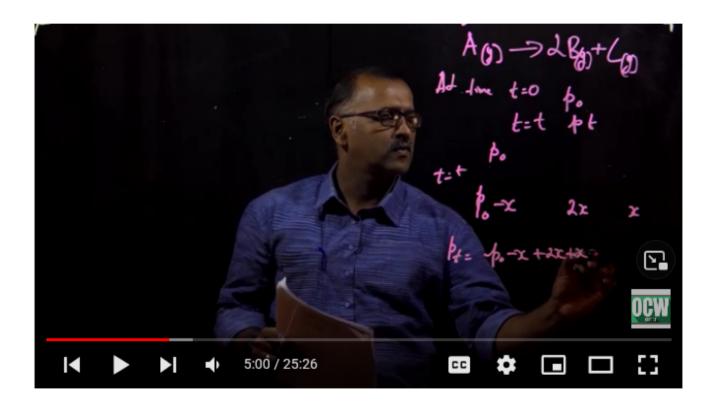




Outcome of the project

Completed two hundred video tutorials using lightboard.

High quality video tutorials are completed in thirteen different subjects. The videos are uploaded in public domain for the use of student community.



Video tutorial using Interface Lightboard

Supplied lightboard to five educational institutions

Four educational institutions approached us to make Interface Lightboard for them. The lightboards were delivered and the institutions are using it successfully

National Girls Higher Secondary School, Irinjalakuda



T N Prathapan MP handing over Interface Lightboard 2.0 to Principal of National Girls Higher Secondary School, Irinjalakuda

Chavara Dharsan Public School, Koonammavu. Ernakulam



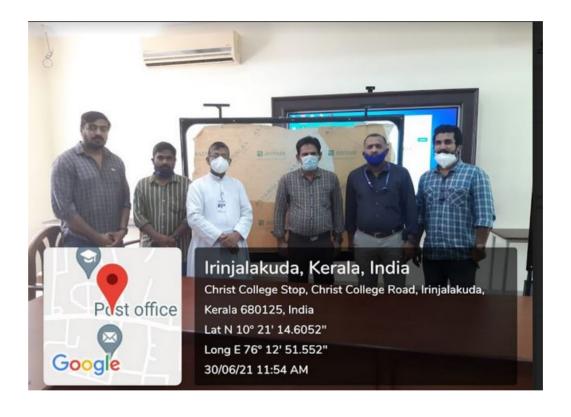
Christ college Principal Fr. Jolly Andrews handing over Lightboard 1.0 to Officials of Chavara Dharshan Secondary School, Ernakulam.

IMS Learning Centre, Thrissur



IQAC Coordinator handing over Lightboard 2.0 to Officials of Chavara Dharshan Secondary School, Ernakulam.

Edusat Tutions, Kodungalloor,



Christ college Principal Fr. Jolly

over Lightboard 1.0 to Edusat Tutions, Kodungalloor

Andrews handing

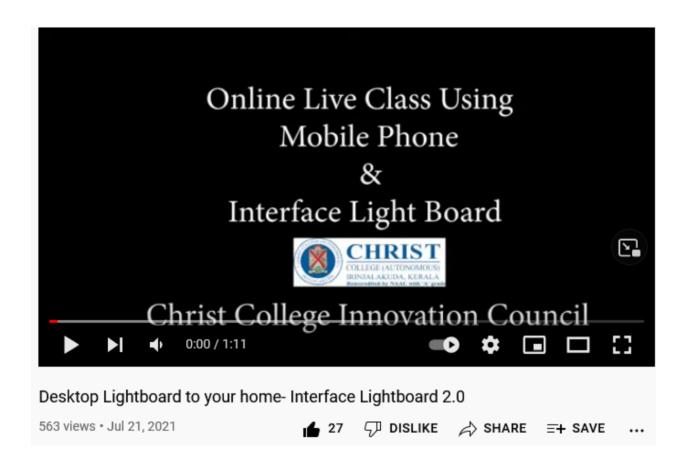
Shared the know how to educational institutions.

The know how to make Lightboard was shared with many educational institutions. They built Lightboard under our guidance. Thinc Instutute of Learning, Trivandrum, Ms. Reshmi, PSC Coaching, Irinjalakuda to name a few.



How to make a Light Board (Malayalam) | Christ College Irinjalakuda.| Lightboard | LED | Neon

Video tutorial on how to make lightboard 1.0



Video tutorial on Lightboard

2.0