

Nationwide Sales & Service Presence



Virtual Classroom

Model: VC LMS 01C (Impact Series)

Online learning platform specially designed to facilitate anytime, anywhere learning



No Geographical Limitation

Efficiently eliminate distance barrier and access sessions without any geographical limitations.

Save Time & Money

Time and money usually spent in commuting to a campus can be utilized better.



Group & Private Chat

Globus Virtual Classroom Solution provide a way for connected attendees to engage via Live Chat (Group & Private).

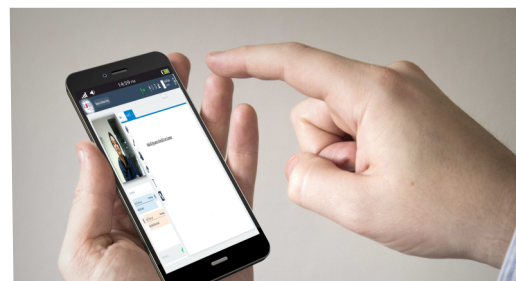
Content Library

Each instructor/ co-Instructor gets the ability to create their online content library for contents like videos and documents



Multi Device Compatibility

Supported on laptops, Android smartphones, tablets via mobile app.



Multi-Session Layout

Supports 4 session layouts and presentation modes viz.
1) Video with White board / content
2) Multiple videos in tiled layout.
3) Full screen video layout
4) Full screen white board / content

Optimal Bandwidth

Globus Virtual Classroom Solution comes with intelligent built in capability for dynamic bandwidth, resolution matching to give each user maximum utilization for his available bandwidth.



BYOD

Compatible with all major operating systems like Windows,Mac OSX, Linux,iOS and Android



Cloud based Virtual Classroom Solution



- Participants can share local screen within the live class
- REST based API to schedule session, manage users, get attendance reports and manage content
- Supports shared media player to enable presenter or attendees to share any Audio/ Video files
- Shared code editor enabling teacher to teach language software.
- Separate content library for each instructor
- Record and playback high definition video and presentation in live class room.
- Supports multilingual interfaces including Hindi, English and as per requirement.
- Raise hand option in Live Classroom.

Devices used in Virtual Classroom



VC Camera with 4K Display



4K Ultra HD Face Recognition



Teacher Tracking Camera



Server



Speaker cum Microphone



Cloud Server

Technical Specifications

Virtual Classroom Cloud Based

- Supports H.264 AVC/H.264 SVC or VP 8 based video compression
- Completely cloud based and support 720p live video stream with 30 fps
- Support a multiple & minimum of 4 session layouts and presentation modes viz.
1) Video with Whiteboard/Content 2) Multiple Videos in Tiled Layout 3) Full Screen Video Layout 4) Full Screen Whiteboard/Content
- Supports both 4:3 & 16:9 aspect ratios. Supports minimum bit rate of 250kbps per user connection for video connection.
- Support AAC or Opus audio codec for audio
- Content sharing supported on the ubiquitous HTTPS/REST protocol
- Shared virtual whiteboard, which updates its view for all attendees in realtime.
- Participants can share their local screens (or any specific applications running on their local machines) within the live class
- REST Based API to schedule sessions, Manage Users, Get attendance Reports, Manage content.
- Shared media player enabling the presenter or attendees to share any audio/video file (streamed directly from the cloud)
- Supports a shared code editor enabling the teaching of software languages.
- View attendee list in the live class and provide the presenter with the ability to remotely control their audio/video streams.
- Connected attendees can engage via Live Chat (Group & Private)
- Supports multiple users in two way Virtual Classroom session. By rotation, any participant can be brought on main screen for everyone else to view up to 9 speaker videos simultaneously
- Attendance report including total number of sessions conducted, each attendees login/logout time, total number of minutes attended, absentees etc. The reports can be retrieved and downloaded as excel formats.
- Connect any endpoint which is connected to the internet using IP v4 or IP v6.
- Intelligent built in capability for dynamic bandwidth, resolution matching to give each user an experience for his available bandwidth. Incase, an endpoint is unable to support video + audio due to lack of bandwidth, the system make that endpoint fallback to pure audio maintaining the continuity of the session.
- Various layout adjustment with different video sizes or no video at all. Display names for each participant connected in the session
- Web based scheduling interface to schedule live sessions
- Additional registered coinstructor allowed, with sufficient permissions, to schedule a session at any time scheduled
- Supports scheduled sessions and ad hoc sessions mode at the same time
- Instructor managed mute control for both audio & video
- The switching of virtual classrooms by the user as easy as logging out from one and logging in into another session.
- Recordings can be stored back in the content library automatically
- Download Session Recording in mp4 format.
- Instructor/Co-instructor can share desktop using screen sharing, access his or her Content Library, upload and share content from desktop, plot shapes like triangle, rectangle, cube, advanced Shapes like Flow charts, Chemistry, Maps and Grids, Emoticons etc. during the session
- Instructor/Co-instructor has rights to remove the unwanted attendee from the live session
- Co-Instructor can play a video file, conduct a poll during the session
- Text tool available inside the whiteboard
- Virtual classroom supports multiple image formats like JPG, PNG, JPEG etc. to be uploaded and shared during the session
- Virtual classroom displays the time lapsed and time remaining, Option to extend the duration of the class from within the session.
- Instructor/Co-instructor has the ability to annotate on top of the shared content (like PDF, PPT and DOC) in the session
- Virtual calssroom is Web based (web app) and works in Google Chrome, Mozilla FireFox web browsers without any software downloads. Supports major operating systems like Windows, Mac and Linux.
- The web app supports automatic NAT firewall traversal, ICE, STUN, TURN protocols for secure connectivity over internet. The media traverse over encrypted SRTP (Secure RTP).
- Supported on Android smart phones and tablets via mobile apps
- The web app and mobile apps has feature that enables participants to text chat while in session
- The act of joining a session requires authentication by the user over OAuth2.0, or other standard SSOs if desired
- The administrator has ability to provision a centralized directory of all registered users.
- Solution supports email notifications about session scheduling, session reminder, etc.
- The management console supports personalized virtual classrooms. Access to virtual classrooms can be protected by username and password authentication so that before the Instructor/Co-instructor enters, participants are placed in a virtual waiting room.
- The management application provide the Virtual Classroom admin with the ability to limit the maximum number of participants
- The management application supports multi tenant architecture where users are registered per tenant
- Restrict or authorize the recording capabilities to a definite set of users
- The virtual classroom application provides an intuitive web based UI to modify and adjust session invitation emails

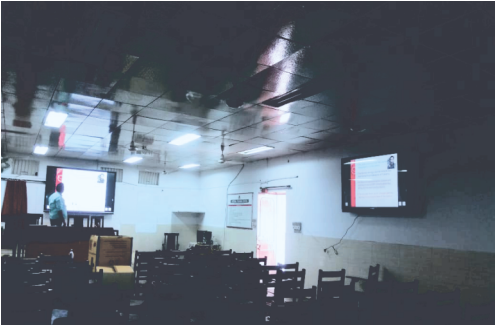
- Ability to create/delete new and bulk users through a CSV file

Role management of the users

- Each Instructor/Co-instructor can create their online content library for contents like videos and documents
- Upload different types of file formats viz. MS Word, MS PPT, MS Excel, PDF and videos in the dedicated cloud content library
- Share Word Doc, PowerPoint, PDF and videos without having to share screen within the live session
- Solution does not require any special piece of hardware to perform Firewall Traversal.
- Solution can record all session content: video, audio, whiteboard and presentation.
- Solution can record and playback High definition video and presentation, up to HD 720p
- Built in content management portal that allows easy user access to all recordings
- The management portal supports sort of the recordings by various parameters such as name and duration
- Solution allow users to view recording only when they access web app via password
- Fast forward, rewind and skip video of recording during playback
- Session Recording can be streamed via HLS in Chrome/Firefox.
- The Admin/Instructor is allowed to save the recordings file on a local disk.
- Solution supports HTTPS Live Streaming of recorded sessions (audio/video) for higher security.
- Configure, if a particular class requires the recording to start by default. Possible to configure this on a per class basis.
- In case of auto-recording of a class, configurable whether the presenter should or should not have the permissions to pause and restart the recording.
- A class recording becomes automatically available for web and mobile streaming within a certain duration of the class ending.
- The Virtual Classroom Solution supports multilingual interfaces including English, Hindi and others as required.
- The solution supports Youtube Videos within the live classroom
- The virtual classroom solution enables attendees to raise their hands during the live class.
- The classroom has the facility of Save to pdf option in the live class
- Content loading from Gmail, Google Drive, Drop box, Box & Onedrive in to the library

Recording & Streaming Device	
Video Inputs	2 x HDMI In
Video Output	1 x HDMI Out for Local Display
Audio Inputs	1 x Line In and 1 x MIC In (unbalanced)
Audio Output	1 x Line Out
Video Encoding	Codec - H,264, Bitrate- 300kbps to 16 Mbps, Resolution - 1080p, 720p, 480p, 270p, User Selectable up to 1920 x 1080p
Video Switching	During Live Streaming and recording via the touch screen or Web UI
Video Layout	Configurable PIP, POP, Single video
Encoded Streams	2 simultaneous 1080p streams at 30 fps (with up to Full HD Sources)
Audio Encoding	AAC (Sampling @ 48 khz) upto 320kbps
Network	1 x 1000 Ethernet port (Rj45)
Storage	Internal Hard Disk- 1 TB HDD (Upgradable upto 2 TB HDD), USB 3.0- Manual copy via 1 USB 3.0 ports
Network Storage	FTP
Recording Formats	Mp4, 1080p (resolution can be varied in encoding setting)
Controls	Web UI Panel, 10.1' touch screen, RS232 and RS485 (Phoenix connector)
Dimensions	256mm W x 175mm H x 37mm D
Power Consumption	30W/ 2.5Amp
Additional Component	Power On/ Off Switch, Reset Button
Packaging Contents	Recording and Streaming Device, Mounting Stand, 12V- 5 Amp DC Adapter
Special Features	<p>10.1" Touchscreen User friendly touchscreen or web interface makes switching easy between your connected sources or layouts</p> <p>Audio Support (i) 3.5mm line-level input or unbalanced MIC input (ii) Built-in attenuation and gain control for perfect sound fidelity</p> <p>Stream to View Everywhere Simultaneously live stream to YouTube, Facebook or web browsers locally over RTMP or RTMPS</p> <p>Configurable Hard Drive Internal 1 TB SSD drive</p> <p>Local Video Output (i) Send your content to a larger display through the local HDMI video output. (ii) Configure to share all input sources or switched program output</p> <p>1080p Recording Supports 1080p Full HD recording</p>

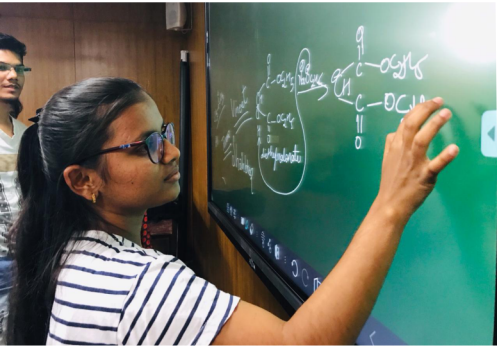
Application Areas



Higher Educational &
Test Prep Institutes



Corporate Offices



Vocational & Carrier
Institutes



Training Centers

and many more...