

# HugoTECHNO Virtual Classroom & Recording Solution

A comprehensive, intuitive solution to record classroom, lecture and conference sessions in high resolution and live stream it simultaneously on broadcasting platforms.



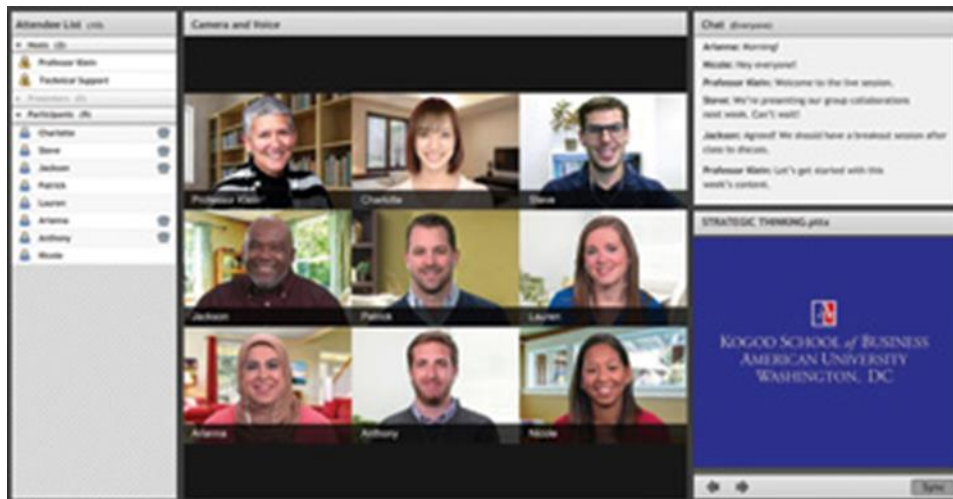
## Lecture Recording Solution

### Product Specifications

<b>Model</b>	<b>HT-CRS-FHD</b>
<b>Recording Formats</b>	1080p (Full HD), Mp4
<b>Hard Disk</b>	1TB SSD
<b>Controls</b>	Via WebUI interface, 10.1-inch touch screen via a user-friendly platform, RS232
<b>Touch Screen</b>	10.1 inches touch screen with user-friendly interface to switch between multiple layouts, switch sources.
<b>Audio</b>	Supports 3.5mm line-level input. It comes with in-built attenuation and gain control for best sound fidelity.
<b>Streaming</b>	Live stream the captured footage on YouTube, Facebook or web browsers via RTMP/RTMPS.
<b>Network</b>	1x1000 RJ45
<b>Integration</b>	It can be seamlessly integrated with a 3 <sup>rd</sup> party control system.
<b>Digital Zoom</b>	16X
<b>Ports</b>	2 x HDMI In, 1 x HDMI Out (local display), 1 x Line In, 1 x Mic In, 1 x HDMI Audio, 1 x Line Out

<b>Encoding</b>	Codec Supported: H.264 Bitrate: 300kbps to 16mbps Resolution: 1080p, 720p, 480p, 270p, User Selectable up to 1920 x 1080p
<b>Local Video Output</b>	Send your videos to larger monitor via local HDMI output. Easily configure the solution to share all input sources program output.
<b>Audio Encoding</b>	AAC (Sampling at 48Hz) up to 320kbps
<b>Video Switching</b>	Video can be switched easily during the live streaming and recording through the 10.1 inch touch screen or Web UI
<b>Layouts</b>	PiP, POP, Single Video
<b>Encoded Streams</b>	2 simultaneous streams in 1080p at 30fps
<b>Storage</b>	1TB HDD (Upgradable up to 2TB)
<b>Network Storage</b>	FTP
<b>Storage Interface</b>	USB 3.0 x 1
<b>Power Consumption</b>	30W/2.5A
<b>Buttons</b>	Power On/Off, Reset

## Learning Management System Software for Virtual Classroom



## FEATURES

- HugoTECHNO Virtual Classroom lets multiple users to connect in a two-way Virtual Classroom session through desktop, laptop, or any smartphone.
- Every participant can be set up as a focus participant on the main screen one by one. 9 speakers can be viewed simultaneously for easy collaborations.
- Instructors can share desktop using the screen sharing.
- Supports AAC or Opus Audio Codec for audio transmission.
- Reports can be generated and downloaded in Microsoft Excel format.
- It comes with a feature of a shared Digital Whiteboard, which is updated for all the attendees in real-time. The participants can collaborate on the whiteboard remotely using their device.
- Displays time lapsed and time remaining within the session.
- Participants of the virtual classroom as well as the teacher can share their respective screens of devices to the entire class along with the communication in real time.
- Students can join any Virtual Classroom as and when teacher starts it.
- With the help of its user-friendly interface, teachers can create, assign assessments to multiple students with Multiple Choice, Multiple Select, True/False, Text Type (Subjective), Picture Choice exercises. Assignments can be assigned to multiple students with just a single click.
- The Virtual Classroom software allows teachers and participants to record and play HD videos and presentations at a resolution of 720p.

- The administrator can maintain a centralized directory of registered users. It supports registered users access based on administrator privileges.
- For two-way collaborations, HugoTECHNO Virtual Classroom lets teachers to communicate with students and vice versa.
- It comes with a web-based application that works seamlessly on Google Chrome, Mozilla, etc to modify and adjust email invitations.
- Students and teachers can engage via Live Chats on Groups and Private Chats.
- On the other hand, students can access and complete assignments/assessments remotely from their devices.
- Student Attendance can be taken and managed from the Virtual Classroom software itself including number of sessions conducted, each attendee's login/logout time, total number of minutes attended, absentees etc.
- Instructor can share the Live Offline Class to online class for students to access remotely from their devices.
- The VC Software allows teachers to hold multiple classes for multiple students to hold a single class for several students simultaneously.
- The session can be recorded and downloaded in mp4 format. Instructor can pause, resume, mute & unmute audio and video during the screen recording.
- Instructor can share content like PDF, Docx, PPT, etc. during the session and even annotate over it during live sharing.
- Instructors can open different types of documents including Ms Word, Ms PowerPoint, Ms Excel, PDF and videos during a Virtual Classroom and even upload them in a dedicated cloud library.
- The solution connects any endpoint which is connected to the internet using IPv4 or IPv6.
- The solution supports Endpoint fallback to pure audio in case an Endpoint is unable to provide video and audio due to lack of internet bandwidth.
- The solution is completely cloud-based and supports 720p live video stream with 30 fps.
- The intelligent features of the solution have the capability of dynamic bandwidth providing wholesome experience to everyone within their available bandwidth.
- It provides Cloud storage like Google Drive, One Drive, etc.
- It also supports major operating systems like Windows, Android, iOS, Mac and Linux.
- The recordings can be stored on a local disk for future reference.
- Administrator can control and restrict recording of any session for certain users.
- The solution supports both 4:3 & 16:9 aspect ratios with minimum bit rate of 250kbps per user connection for video connection.
- Supports image formats like PNG, JPG, JPEG, etc to be uploaded and shared during session.
- The solution also includes support for ad hoc sessions and scheduled sessions simultaneously.
- Any guest instructor or co-instructor can conduct the lesson anytime with permission from the administrator.
- The Virtual Classroom portal can be accessed via a dedicated username and password. The participants are kept in the waiting room before the instructor joins the live class.
- The Virtual Classroom software allows email notifications for session scheduling, session reminder, etc.
- Administrators can remove unwanted participants from the session. They can also limit the number of participants in every session.
- Instructors can access their content library from desktop and even create their online content library.
- Instructors can share plot shapes like triangle, rectangle, cube, advanced Shapes like Flow charts, Chemistry, Maps and Grids, Emoticons etc. during the session.
- Supports personalized Virtual Classroom for a more customized look and feel to the session.
- It supports H.264 AVC/H.264 SVC or VP 8 based video compression.
- It has a shared media player to play any audio/video file.
- Content sharing is supported on the universal HTTPS/REST protocol
- The duration of a Virtual Classroom can be designated by the instructor via software itself.



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