**The most complete solution for recording every presentation within an establishment**

EASYCAST™ CAMPUS

### EasyCast Campus – Rich Media Industrialized

EasyCast Campus is a solution dedicated to recording lectures taking place simultaneously in multiple rooms. Its key strengths are process automation and remote fleet management.
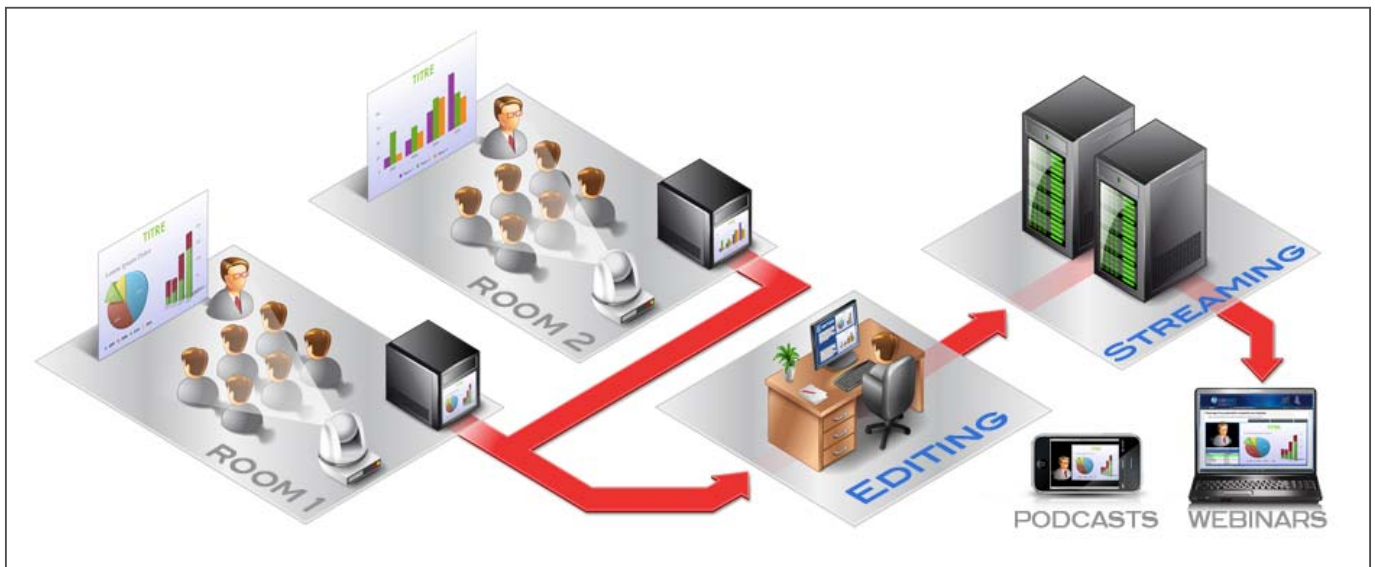
An EasyCast Campus installation is comprised of two key elements:

▶ **recorders** placed in each room. They are dedicated to recording the lectures and automatically synchronizing audio, video and computer data sources.

▶ a **central editing and computing unit**, in charge of analysis, basic editing and encoding. It is complemented by a Web interface, the Campus Manager, that offers remote control of recorders (recording, updates, supervision).

EasyCast Campus was designed for maximum transparency for users - leveraging automation - and minimum intervention for administrators.

### How does it work?



▶ Each room is equipped with a camera, a microphone and an EasyCast Campus recorder.

▶ Recordings are scheduled in advance, remotely started via Campus Manager, or initiated by the presenter using an EasyCast touchscreen interface or a room control device.

▶ EasyCast takes full-resolution snapshots of the presenter's computer screen upon detecting slide changes, creates chapters and **automates camera framing** and metadata extraction (keywords, slide titles, etc.).

▶ Once a recording is finished, the media are automatically pushed to the central unit through the network. Recordings can then be cropped, enriched with supplementary metadata and converted to multiple formats (for multiple devices). Automatic camera framing can also be corrected.

▶ The final media are published to EasyCast MediaServer or other existing infrastructures and shared as Rich Media or Podcasts.

## Key Features

### Dynamic, FullHD Video

- Captures video and publishes content in SD (synchronized jpeg slides) or in HD (dynamic composition, up to 1080p)
- Automatically creates dynamic content according to configurable video production rules:
  - when presenter changes slide or shows a video, data is displayed in full screen
  - staying on the same slide for a few minutes triggers showing the presenter in full screen

### Full Quality Data Capture

- Presentation material is recorded at 25 images/sec, in full quality (up to 1920*1200 pixels) - whatever is shown on the video projector, screens, interactive whiteboard, will be perfectly captured
- Upon each slide change, the Campus creates:
  - a navigation index that can be transformed into a chapter
  - a full quality JPEG snapshot of the presenter's screen for fullscreen viewing

### Presenter Tracking

- Unique software-based presenter tracking :
  - creates engaging and more relevant content (showing an object, writing on a paper-board, ...)
  - can be corrected

### Campus Manager

- Remotely manage recorders via a Web interface:
  - launch and schedule recordings, configure settings
  - receive pro-active notifications and alerts from recorders (audio level, remaining disk space, etc.)
  - system-wide updates and remote mainte- nance

### Assisted Post-Production

- Recorded media can be trimmed and merged without erasing originals
- Optical Character Recognition (OCR) is applied to all slides for keyword search and chapter titling
- Customize output media appearance (layout, logos, etc.) and format(s)
- Automated batch task management (encoding, publishing, etc.)

### Easy Recording

- Start capturing a lecture:
  - with a single button (EasyCast touchscreen or room integration)
  - by planing it ahead of time from Campus Manager
- Record and publish using pre-defined user or application-oriented profiles

## Form Factor for Recorders and Central Unit

**Rack**

**19" touch-screen for the central unit**

## Technical Specifications

### Recorders

#### Video inputs

- IP* (RJ45): AXIS Q1755 fixed (1080p)
  Sony IPELA RH124/ER550 PTZ (720p)
  Canon VC-C60 (480p), VB-M40 (720p)
  and VB-H41 (1080p)
- DV (IEEE 1394a) all devices (PAL/NTSC)
- DVI/VGA/YUV (up to 1920*1080 input and capture) using an optional high resolution capture card

#### Data input

- DVI/VGA/YUV: capture of presentation material up to 25 images/sec at maximum resolution 1920*1080

#### Audio inputs*

- Onboard jack 3.5 stereo
- XLR/USB adapter (mono), with headphone output, volume and gain ajuster (48v Phantom power)
- Most mono/stereo USB compliant devices

#### Native recording

- Muxer: Matroska (.mkv)
- Codecs: MJPEG / MPEG-4 Part 2 video, PCM audio Resolutions: 2 x 1080p
- Recommended aspect ratios: 16:9 and 4:3
- Metadata: MetaCast format, open, based on XML
- Storage capacity: 2 To of disk space (over 500 hours of typical HD recording)

#### Control interfaces

- Touchscreen or keyboard/mouse
- Web (via remote control panel, remote and scheduled action APIs available)
- Room integration (RS-232 / TCP/IP (telnet) API)

#### Form factors

- Fixed rack unit: 483 x 177 x 439mm (7 kg)

### Central Unit

#### Media storage

- Security: hardware RAID 5
- Capacity: 4 To (up to 1600 hours) upgradable to 12 Tb

#### Supported protocols

- DHCP, HTTP(S), TCP/IP, NTP, FTP(S), RTMP, RTSP, RTP/UDP, UPNP, SSH, Telnet, RS-232

#### Offline export formats

- Interactive HTML5 webinar (video in MP4, WMV and WebM) with autonomous player, attached files, search engine and theming. Compatible with all browsers, provided with Java editor
- HD dynamic podcast (with chapters for iOS de-vices) : resolution up to 1080p MP4/H264/AAC
- AVI for post-production compatible with Apple Final Cut and Adobe Premiere
- Archive: separated native quality sources + XML file (contains indexes)

#### One-touch publishing to

- USB media: NTFS, FAT16/32, HFS+, EXT2/3/4, ReiserFS
- FTP server
- Local or hosted EasyCast MediaServer. Includes a personalized video catalogue (WebTV). Cloud hosting using Amazon Web Services for high quality service. Adobe Flash (RTMP H264/AAC) and HTML5 (MP4 and HLS) formats for live and on-demand streaming
- Third party platforms : YouTube, Dailymotion, Amazon S3 / Zencoder cloud transcoder, Apple Podcast Producer. For more connectors, contact us

#### Control interfaces

- Touchscreen or keyboard/mouse

* Recommended hardware. Contact us for complete list.

### A few Applications

▶ Internal training: record on-site and videoconference sessions

▶ eLearning and Knowledge Management

▶ Distant teaching and training: Web live streaming with moderated interaction (chat, questions, comments)