



# Video Solutions for **Education**

Classes & campus events any time, from anywhere



# Video Solutions for Education

Optibase presents a comprehensive, powerful and flexible solution for delivering real-time and on-demand IPTV video to PC, Mac and TV screens for distance learning, campus TV and entertainment applications.

Optibase, a leading provider of IPTV solutions, is enabling schools, colleges and universities to offer exciting new interactive education and entertainment services to their students and staff. Now, using a solution based on EZ TV and the MGW platforms, lectures, performances and other video content can be broadcast live or on-demand at top video quality across campuses and school districts, to desktops and TVs of students and staff.

## Video-assisted learning makes it easy to get to class every time, from anywhere

Optibase educational solutions provide networked campuses with a full range of tools for video-based applications. Students and faculty can attend or observe classes virtually from their dorm rooms or offices by viewing a live video stream delivered directly from a classroom, lecture hall or laboratory. Recordings of classes can be accessed on-demand at any time, enabling students to time-shift classes when scheduling conflicts arise and making missed lectures a thing of the past. Administrators or instructors can also create playlists of recorded classes, presentations or lectures for scheduled broadcast.

## Expanding the school's student base

The Optibase solution can help expand the school's potential student base by bringing classes to students, wherever they are and whenever they are available. Students who live in geographically remote areas or whose mobility is limited can "attend" live or on-demand classes via the Internet without commuting, while those who work during class hours can view lectures at their convenience. Through distance learning, classes in unusual subjects that appeal to small groups of students can achieve sufficient enrollment to be financially viable. Students attending classes at satellite campuses can interact with their peers and lecturers in real-time.

## Bringing campus events and news to students, alumni and the larger community

College life offers much more than classes and term papers, and the Optibase EZ TV solution enriches extracurricular events as well. Sports, guest lectures, graduation ceremonies and campus-wide events can be encoded by Optibase's portable encoding platforms and broadcast over the Internet to satellite campuses, alumni and the larger community. Live broadcast of emergency bulletins, breaking news and useful announcements can help inform and alert students and faculty to important and timely information.

Student generated content, such as short films produced in on-site studios, can be made accessible to students, strengthening school spirit and a sense of community. Content can also be made accessible to potential employers, as appropriate, and serve as a video portfolio. The Optibase EZ TV solution also makes distribution of off-air television channels to dorm rooms and public areas simple, providing a cost-effective alternative to legacy campus TV systems.





### Optibase educational solution components

Optibase video encoders and players make these cutting edge educational applications possible. The MGW (Media Gateway) family of products includes a full range of video streaming solutions, from streaming high-quality video at low bit rates to be played over limited network connections to HDTV feeds that are played on large screen monitors around campus.

**MGW FlashStreamer**, Optibase's portable and compact encoder, is unique in that it permits presentations, alongside a video of the presenter, to be streamed over the Internet using industry-standard Adobe® Flash® technology. This capability ensures that viewers can experience the lecture on any web-browser exactly as they would in a lecture hall, without any additional software.

**MGW 400** encoder provides low-latency encoding of high quality video at low bit rates for cost-effective streaming. Its built-in storage allows operators to stream video over IP while simultaneously creating and storing MPEG files. Stored assets can be retrieved offline, uploaded as VOD and/or scheduled for playback.

**MGW 1100** encoder offers advanced live encoding, transcoding and streaming, simultaneously transmitting up to 12 channels of content from different sources in a variety of formats. It can be integrated with the Cluster Manager, Optibase's professional management suite, which enables multiple MGW platforms to be intuitively and easily managed from one centralized location.



**EZ TV System** gives students personalized access to all school-related video material from the web browser on their laptop or desktop computer. Up to 16 videos can be viewed concurrently on one screen in mosaic format and students can continue to use the computer for other tasks, such as writing or information gathering, while the videos play. Videos can also be viewed on TV screens using IP set-top-boxes, both for convenience in a dorm room and for formal applications such as satellite class sites.

Whether streaming live and on-demand footage from classrooms and lecture halls to students and faculty, broadcasting campus events over the Internet to the general community or providing entertainment to the dorms, EZ TV is your ideal choice for an advanced educational IPTV video distribution solution that is highly reliable, quick to deploy and easy to maintain.

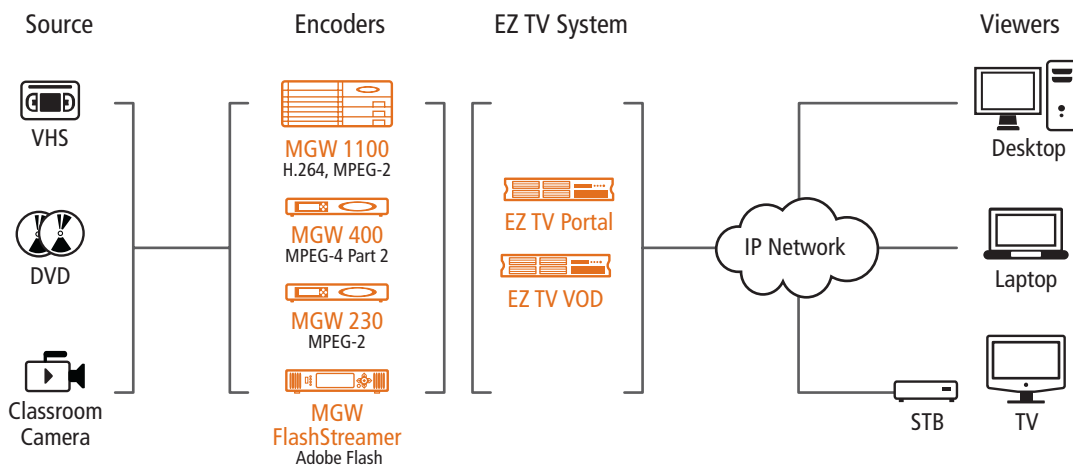
## Applications

- Live and on-demand solution for primary schools, high schools and universities
- Live streaming of classes, sports and cultural events
- Distance learning from home or satellite campuses
- Distribution of off-air and cable TV to dorm rooms and recreation areas
- Encoding and recording of campus events for on-demand access
- Simultaneous viewing of video and presentations

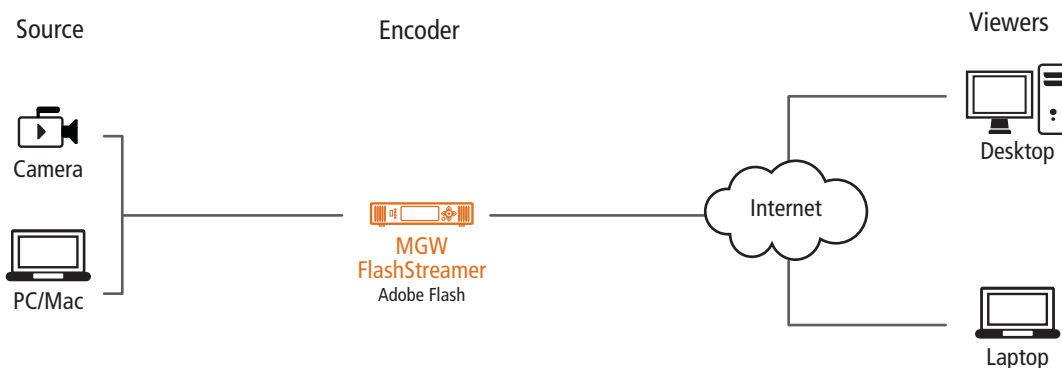
## Benefits

- Video can be played on PC and Mac computers or on TVs
- Automatic browser-based player installation and easy-to-use intuitive interface
- Group and individual access privileges controlled through Microsoft® Active Directory database
- Simultaneous viewing of multiple videos
- Distribution via local IP network and over the Internet
- Encodes TV channels to H.264 and MPEG-2 streams
- Top video quality at low bit rates
- Playlists of lectures, classes or events can be created and scheduled for broadcast

### Streaming Live and On Demand Lectures and TV Channels



### Streaming Live Events, Classes and TV Presentations



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