

Public Administration Institute Prague raises video quality with Axis IP cameras.

State-of-the-art system for lecture synchronization made by T-SOFT brings e-learning to a new level.

**Organization:**

Public Administration Institute (IVS Prague)

Location:

Czech Republic

Industry segment:

Education

Application:

remote teaching, monitoring and recording

Axis partner:

T-SOFT a.s.

Mission

The main purpose of the project was to upgrade the training facility equipment of the Public Administration Institute in Prague (IVS), to promote modern methods of training, education, conference events and of acquiring synchronised AV recordings using PreVid applications, which are also used to promote and complement the sales of training services with samples. Employing a mobile workplace with Axis cameras supports the organisation's strategic plan to expand with organising the events into new locations and offer new and complementary types of services.

Solution

The project of enhancing training methods follows up a comprehensive overhaul of the training premises and consists of several parts. The obsolete analog technology in the main lecture hall was first replaced, then a mobile (portable) system was installed (including the Axis camera, notebook, audio system and the PreVid application), which ensures fast acquisition and processing of video recordings at any location.

The mobile system is used during events held outside permanent facilities throughout the Czech Republic. The given combination makes it possible to cover parallel events, ensure a professional recording quality even outside permanent training facilities, the possibility to offer innovative services, create promotional video recordings with just in-house staff, etc. This innovative approach reduces operating expenses and brings new methods of use. IT staff and trainers operate the IP cameras.

Result

The mobile system (consisting of components made by Axis and T-SOFT) is used at events held outside buildings. The resulting recordings are posted on the website of the Public Administration Institute in Prague (IVS), and they can be played on mobile devices and also offered as new and complementary services. For these purposes, a camera and notebook were selected that feature an outstanding mechanical resilience, recording quality and sufficient recording processing speed.

“Thanks to open standard of IP-cameras Axis and high quality images, we composed a solution which is not only affordable and easy to use, but also represents an elegant approach towards the digital era for all educational institutions and conference facilities.”

Libor Daměk, sales consultant T-SOFT a.s..

Non-traditional camera system for educational purposes

The client's original idea of enhancing training services and upgrading their training facilities came at a time when it was possible to install a new type of software solution (T-SOFT's PreVid application), which allows the client to make synchronised camera recordings combined with a computer presentation. The application's intuitive controls allowed the administrator and camera operator to be quickly trained. This allows the client to make recordings using their own resources, renders the recording processing easier and speeds up offering and publishing such recordings.

Technical description of solution

A new PTZ camera (AXIS P5415-E PTZ HDTV) was installed in the main lecture hall for 150 people. The camera features a sufficient 18x optical zoom, is connected to an audio mixing console, and controlled within the intranet using a web-based application. That application acquires the first camera recording from the lecture hall. In parallel, a synchronised recording is acquired from the desktop of the lecturer's computer.

Both recordings are processed automatically into one resulting MP4 file using the PIP (Picture in Picture) method, or as two separate files. You can view an example of such a recording on an instructional video made by PreVid that has been uploaded on YouTube (CZ or EN). The resulting recordings can be played in a web browser, on a mobile device or multimedia equipment that supports the playback of the MP4 standard format.

The second camera used in the mobile set (AXIS Q1775 HDTV featuring a 10x optical zoom and designed to make HD recordings) is connected to a notebook that has an SSD drive and the PreVid application installed. The system includes a small mixing console with a set of wireless microphones and a stand.

Cameras prove themselves

The actual project implementation was completed within a single month. In the following month, the camera was used to record the "Drought and Floods" conference that was held in the main lecture hall of IVS' Training Center in Benešov. The quality of the recording acquired (video and audio) was of a professional level. The mobile set began to be used in lecture halls located in Prague and Benešov, as well as at events held outside these premises. Preparation has also started to record promotional videos of training courses and to offer the making of such synchronised recordings as a service for other organizations.

