

Case Study

Coatbridge College



Coatbridge College



Project: Specialist Dental Training Facility



Project Overview

Coatbridge College were an award winning establishment building a new dental training facility. Looking for a highly featured and technical solution, they requested their dental supplier KaVo to assist with installing a solution they had seen elsewhere.

KaVo in turn recommended Phoenix AV to install the requested AV solution; however on seeing the training requirement, Phoenix AV researched the training methods and systems, eventually coming up with a revolutionary and award winning solution for the College.



LOCATION

Strathclyde Business Park,
Belshill, Glasgow



DATE

January - February 2011



PHOENIX STATUS

Recommended Sub-Contractor



NET VALUE

£34,979.00



MAIN EQUIPMENT

- INSIDE Endoscope - Electron Controllers

We may be small, but we make a big impact

Already an award winning establishment, Glasgow's Coatbridge College Dental School was not only committed to developing the dental team and offers qualifications to those individuals considering a variety of dental career progression routes in Dental Nursing and Dental Technology, but also supported individuals employed within dentistry by providing continual professional development training and post qualifications, including Diploma in Orthodontic Therapy, Oral Health Education/Promotion, Dental Radiography, Dental Practice Management and Dental Administrators/Receptionist qualifications.

KaVo were to provide a number of training pods where students would work on a dummy 'Phantom Head' to hone their skills. An overhead CCTV camera above the trainer would show the students what was being done.

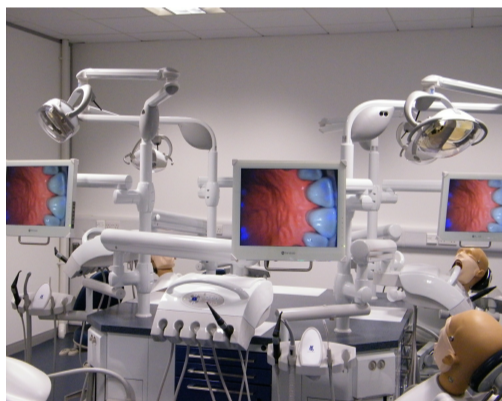
Phoenix AV immediately identified the fact that image quality would be poor with the trainers head and hands in the way. Hand-held intraoral devices were no good due to limited resolution; however Phoenix AV were informed by the dental staff that there were no other solutions available.

Design Solution

The Phoenix AV team spent a week researching the dental field and eventually found a company based in Italy called Faro, specialising in dental endoscopes. They produced an endoscopic camera system with built in LED lights that allowed the dentist to operate via a high definition monitor rather than leaning over the patient. Benefits included better views of the mouth and teeth and minimal back strain for the dentist.

Phoenix AV immediately recognised its potential and after meeting with the manufacturer in Milan, brought back the first INSIDE Endoscope system in the UK.

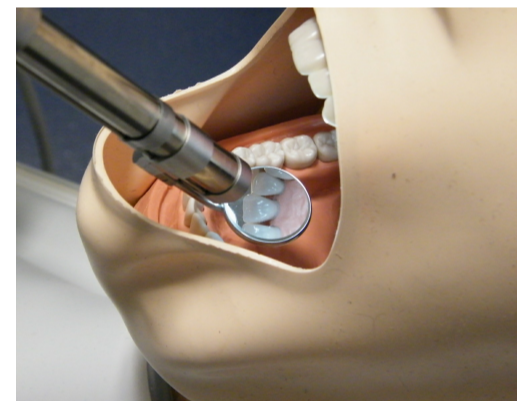
By connecting the INSIDE Endoscope to the instructors pod and through a matrix and control system, the instructor could now show any part of the Phantom Head's mouth and teeth totally unobstructed including looking into cavity areas within the gum. These images could be sent to all the 11 students' individual monitors as well as a large wall mounted 84" screen for visitors. Furthermore, the images could be recorded for playback, still images taken or even used in conjunction with video conferencing.



Dual Position DSE Pod
Phantom Head and Monitor



Visitor Area
63" Plasma Screen



Endoscope Mirror inside the
Trainer's Phantom Head

Innovative Solutions

Phoenix AV was able to approach the project from a totally fresh viewpoint, utilising an outstanding piece of technology from another country and using it to provide the solution in a way not previously considered by the manufacturer.

Achieving Excellence



The project went on to win the College in March 2011, the Scotland's Colleges Business to College Winners Award for Workforce Development 2010.

Furthermore, the INSIDE Endoscope was later installed at private practices as well as the UCL in London.

The projects impact did not stop there; amazingly the manufacturers had not considered its use for training and following the Belshill Project, Phoenix AV received calls from Denmark, France and Germany for details about its value in training.

