# AV teaching aids for schools, colleges, universities & specialist training

Audio visual equipment designed for the education sector





Smart-e

### **AV** for teaching

Who uses it?

Schools

Colleges

Universities

Specialist Training

Dentistry

# What are remote teaching & interactive learning solutions?

AV solutions from Smart-e gives schools, colleges, universities and specialist training centres the opportunity to provide state-of-the-art teaching vehicles, which in addition to providing clear and concise classroom aids can be tailored to provide remote teaching (allowing a tutor located anywhere in the world to display themselves and content to multiple schools and classrooms simultaneously), as well as interactive teaching where information is displayed alongside a student's computer and enables them to interact with the lesson, comparing their work with the instructor's, directly on their screen.

#### Where it's used?

Classrooms

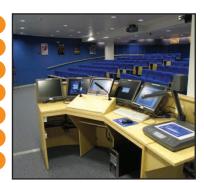
Language Labs.

Lecture Theatres

**Practical Suites** 

Computer Rooms

... and much more



#### AV teaching aids are used for:

- · Remote teaching across schools
- Interactive learning
- Targeted teaching
- Mixing AV teaching aids
- · Flexible teaching
- Grouping differing abilities
- · PCs used for a more visual aid
- Group or individual learning

#### Targeted teaching

Teaching levels, and/or subjects can be targeted to individuals and/or groups within the same classroom, at the same time.

#### Remote teaching

A system can be used to maximise teaching resources through remote teaching. A tutor located anywhere in the world can display themselves and content to multiple schools and classrooms simultaneously. This is especially beneficial where classrooms are located in remote areas and access to teaching staff is limited, where specialised tutoring is not available locally, or for interactive lectures from international specialists.

#### Interactive learning

Information can be displayed alongside a student's local computer, allowing the student to interact with the lesson and compare their work with the instructor's, directly on their screen.

#### remote teaching

#### How does it work?

Use a variety of source devices to get information across to students. With the Smart-e solution you can use a mix of DVDs, visulizers, training videos, content live from the Internet, the latest High Definition terrestrial and satellite TV programmes, and of course a PC, to get your message across. Images from all the devices (up to three at the same time) can be displayed on either an individual student PC screen, transmitted onto a shared projector screen, or LCD or plasma TV screen.

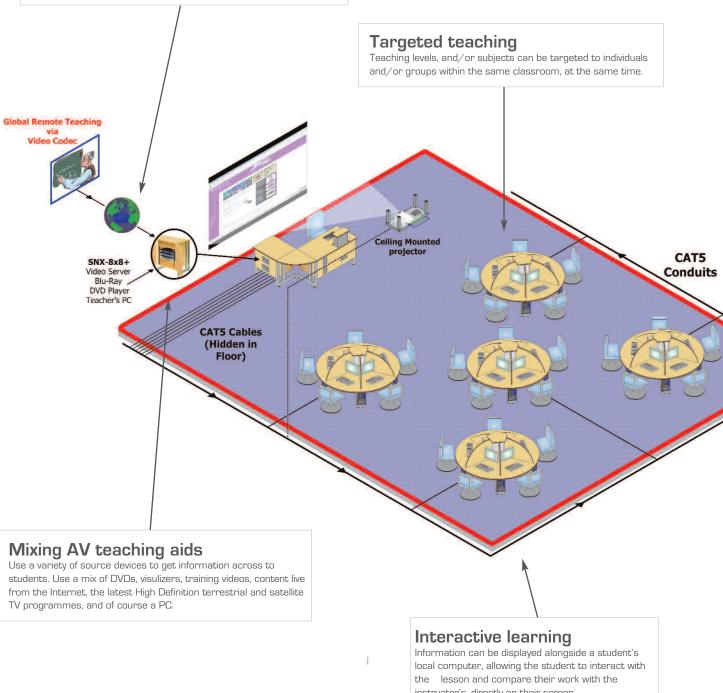
#### interactive learning



# A typical classroom solution featuring remote teaching

#### Remote teaching

Maximise teaching resources through remote teaching. A tutor located anywhere in the world can display themselves and content to multiple schools and classrooms simultaneously.

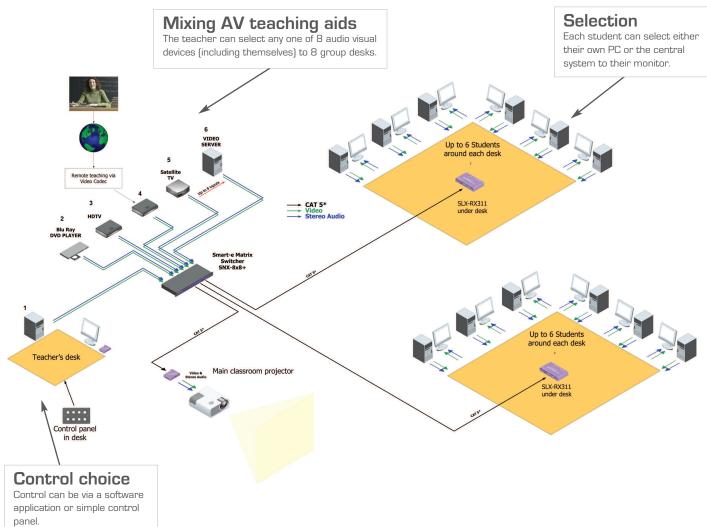


"It has been shown that students' ability to digest information is better when the information is targeted directly towards the student rather than to the class as a whole"

instructor's, directly on their screen.



# Multi-source AV solution for the classroom, with remote teaching aid





#### Control & select

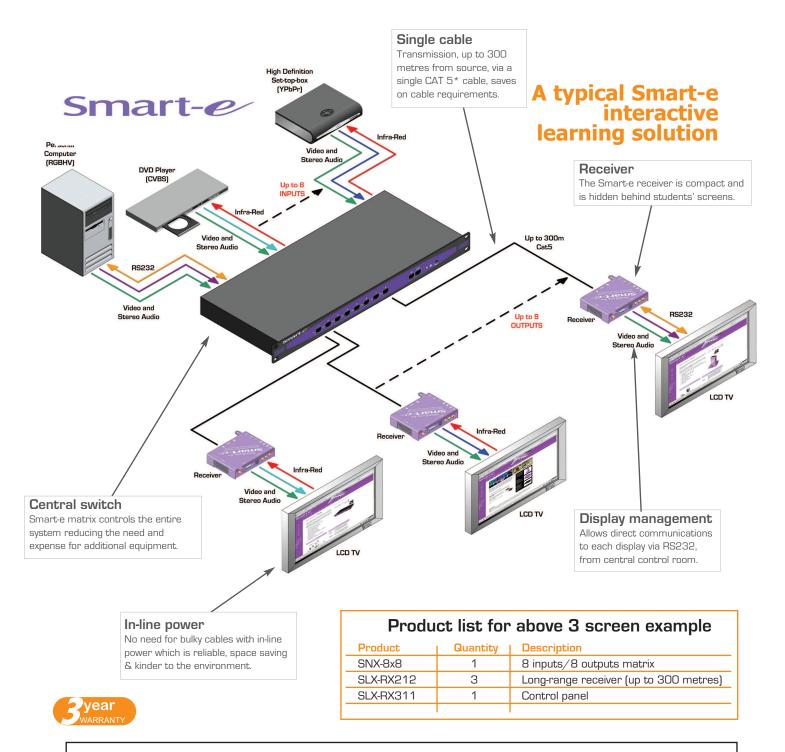
A teacher has full control of the system and can dictate content to each student group. Using a simple control panel there are two levels of control function.

- From the control panel the teacher can select any of the eight AV devices to any or all the desk groups
- multiple desk groups can see the same image and sound.

 A teacher can decide which of the desk groups view the centralised image and/or their own PC.



The above Smart-e solution has been incorporated into a desk construction with five PC stations which allows AV selection between the students and the central AV resources. This example show 5 stations, however up to 6 students could share this configuration, selecting between local and remote AV soruces.



#### Why choose Smart-e solutions?

Smart-e has extensive experience of designing and manufacturing cost effective AV solutions. Our systems are:

Compact unit offers extra space saving qualities

**Single cable** technology is more reliable, space saving and frees up cable for other services

**High Video Quality** ideal for larger displays that provide more detail, and a clearer, sharper, more realistic picture quality

**Display management** allows direct communications to each display via RS232, from control room

In line power is highly reliable, space saving and kinder to the environment

**Centralised AV resources** means there is less clutter whilst providing a cost effective, 'greener', reliable system

**Power saving** scheduled screen on/off reduces power costs

**Robust**, all Smart-e equipment is built to last, and has a 3 year warranty

**Ease of maintenance**, all components can be replaced and/or maintained quickly and easily

**CAT 5\* cable**, all Smart-e equipment is designed to work on CAT 5, 5e, 6, 7 and 8 structured cabling

**Scalable** options range from 1 to an infinite number of screens

**Preventative maintenance**, automatically tracks status of equipment, and alerts operator of low lamp life, loss of power etc., reducing downtime

### Smart-e/

#### **About Smart-e Limited**

Smart-e Limited is a UK designer & manufacturer of professional solutions providing integrated control of audio, video, computer, and IP, for use in corporate communications, presentation system, entertainment, remote teaching & interactive learning, security surveillance, digital signage, and marine environments.

#### Technically advanced UK design & manufacture

In-house expertise in the research and design of the hardware and software that drives the solutions, enables Smart-e to adapt to new technologies rapidly, whilst UK manufacture allows for shorter lead times and removes third-party reliance.

Available either off-the-shelf or adapted for specialist applications, Smart-e systems deliver the most comprehensive and technically advanced solutions for transmission of all formats of analogue and digital media over CAT 5 [5e, 6, 7 and 8] structured cabling, providing high performance, HDTV compatible links from PCs, laptops, DVDs, set-top-boxes, Blu-ray, visualisers, and cameras, to plasma and LCD screens, video walls, smartboards and projectors. New equipment is being developed all the time, so if you can't find what you are looking for, simply contact us.



Smart-e SNX-16x16 distribution matrix

#### The 'green' credentials

Centralising power to the matrix results in some impressive power consumption savings

- Only one mains AC to DC conversion improves efficiency thereby lowering power consumption
- Using an efficient low power DC-DC conversion in the receiver units, provides effective power conversion from 24V to +/-5V
- RS232 passthrough allows displays to be turned off when inactive

#### **AV** solutions from Smart-e

#### Presentations Systems



## Corporate Comms.



#### Digital Signage



#### Entertainment Systems



# Interactive & Remote Teaching



### **Security & Surveillance**



