

# SmartClass+

## CAD Lab Management Platform



# The Rich-Media Advantage

The **SmartClass+** CAD lab management platform lets you share computer displays between stations in rich-media applications like CAD, image processing, and media arts. Even the most demanding of users is unable to distinguish a shared screen from the original screen – even when manipulating high-res wireframe or 3D shaded models.

## Overcoming Traditional Limitations

If you have been working with students in a rich-media environment like CAD, and have been using a software-based management system to share computer screens, then you are probably frustrated with the poor video quality that you are experiencing.

Especially so, if your school has made a recent investment in new computers with large high-quality digital LCD monitors that deliver breathtaking local graphics images.

Until recently, your options have been limited, but finally the wait is over. The **SmartClass+** secret is a hardware-based KVM switching platform capable of sharing VGA analog and/or DVI digital displays having resolutions up to 1920 x 1200 @ 60 Hz, and using a full color palette.

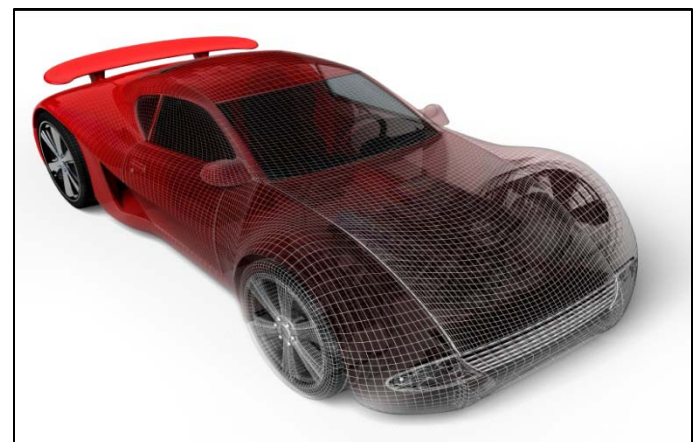
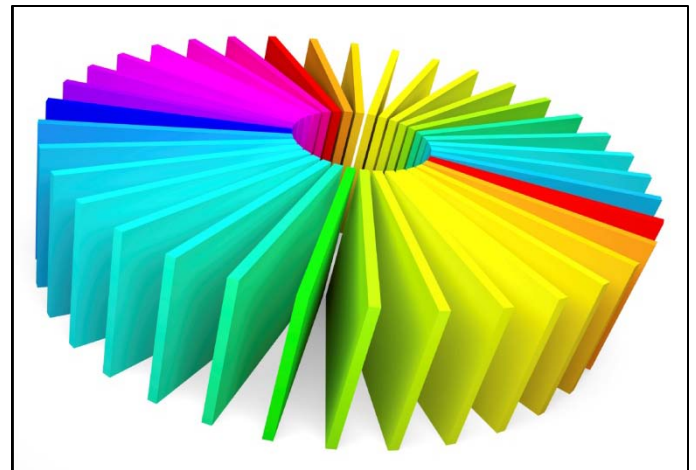
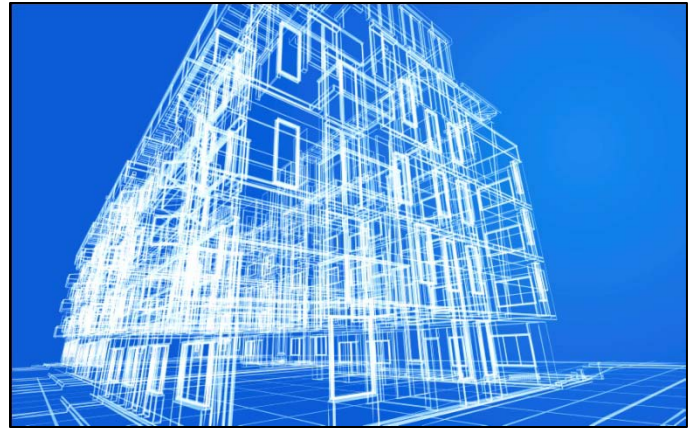
## Single & Dual-Screen Support

**SmartClass +** supports both single-screen and dual-screen environments.

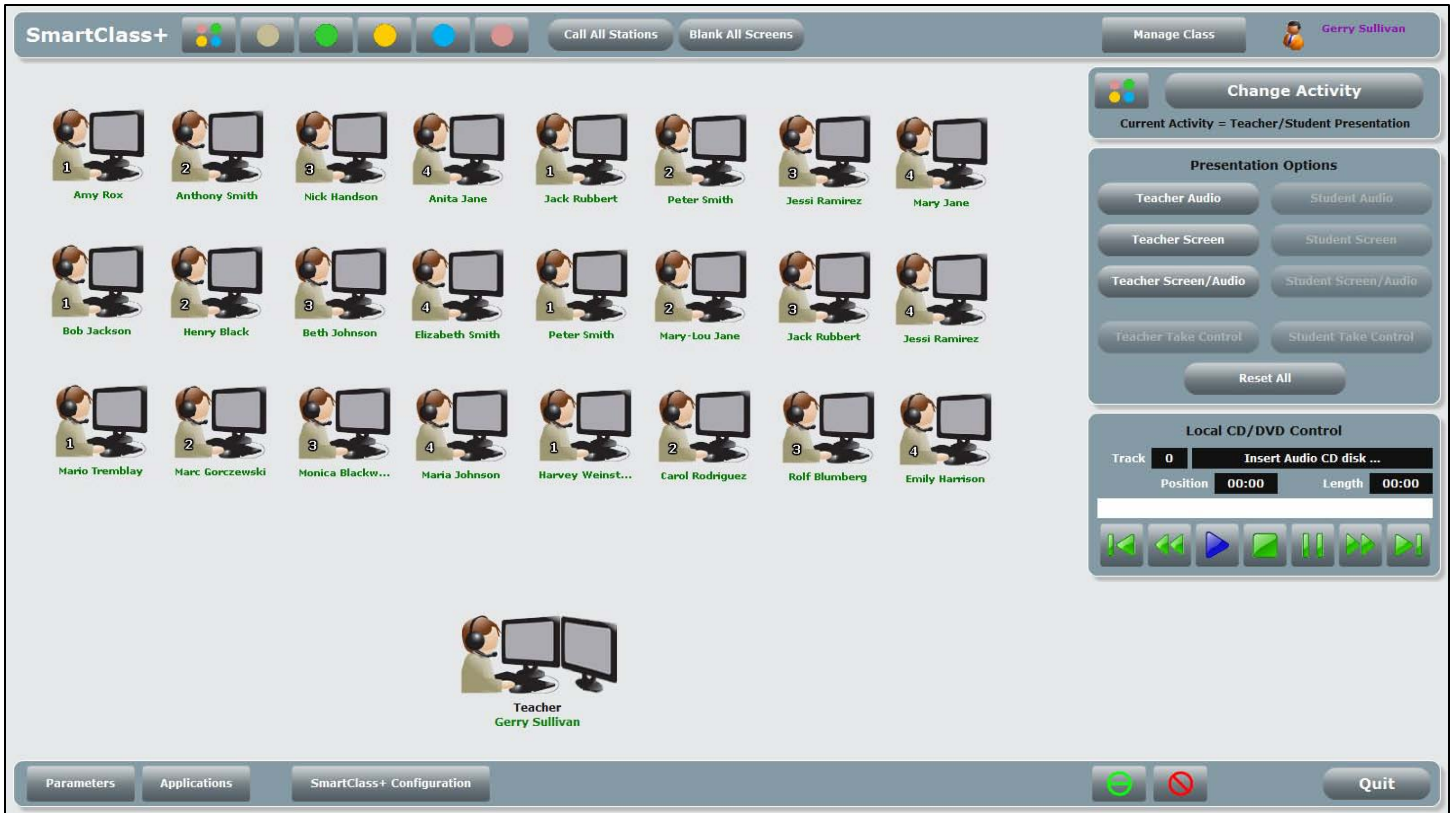


## Audio Intercom Support

**SmartClass+** can be equipped with an optional audio intercom layer that enables teachers to discreetly monitor and/or speak with students.



# Powerful and Easy-to-Use

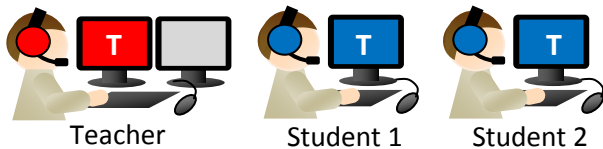


## Intuitive System Dashboard

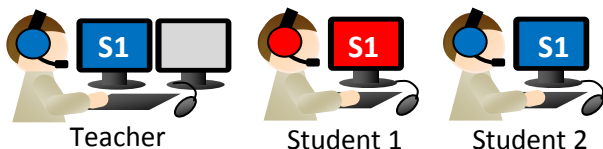
The SmartClass+ system is managed from an all new graphical user interface called the dashboard, (as shown above). Dashboard navigation is structured to ensure that teachers can quickly master the system. Clear visual feedback, logical control organization, and step-by-step guidance all assure ease-of-use.

## Powerful Management Functions

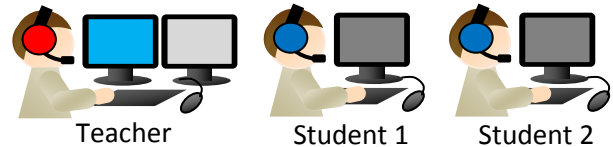
- **Broadcast:** Send the instructor's screen and sound to the class for teacher presentations.



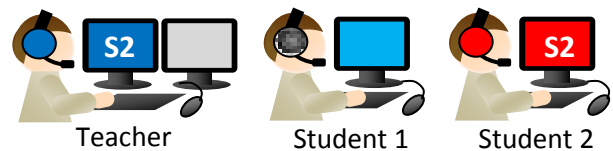
- **Model:** Send any student's screen and sound to the class for student presentations.



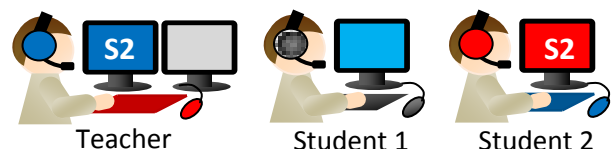
- **Blank Screens:** Blank student screens and lock all keyboards and mice to focus student attention on the instructor for oral presentations.



- **Monitor/Autoscan:** Monitor individual student screens or scan the entire class to ensure students stay on topic.

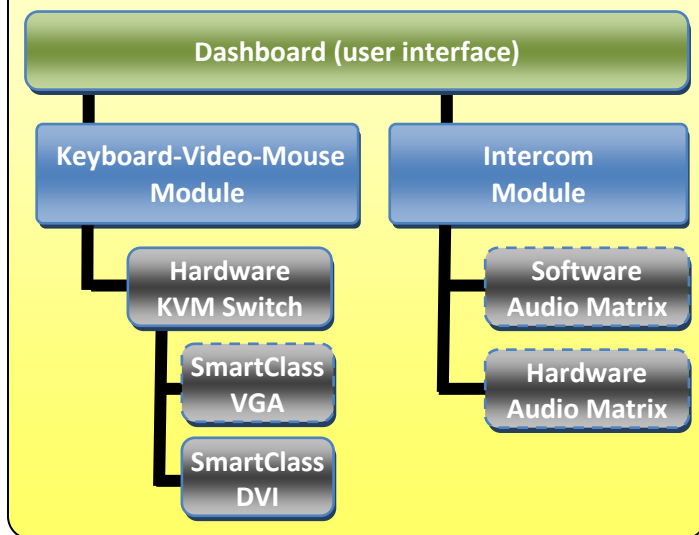


- **Remote Control:** Take remote control of any student station using your keyboard and mouse to demonstrate an idea or a solution.



# SmartClass+ Technology Overview

## SmartClass+ CAD Lab Platform



### Powerful KVM Module

KVM stands for Keyboard-Video-Mouse. This module is used for sharing video screens amongst stations, and for managing keyboard-mouse remote control of stations. A simple block diagram of the SmartClass DVI switching option is shown at right.

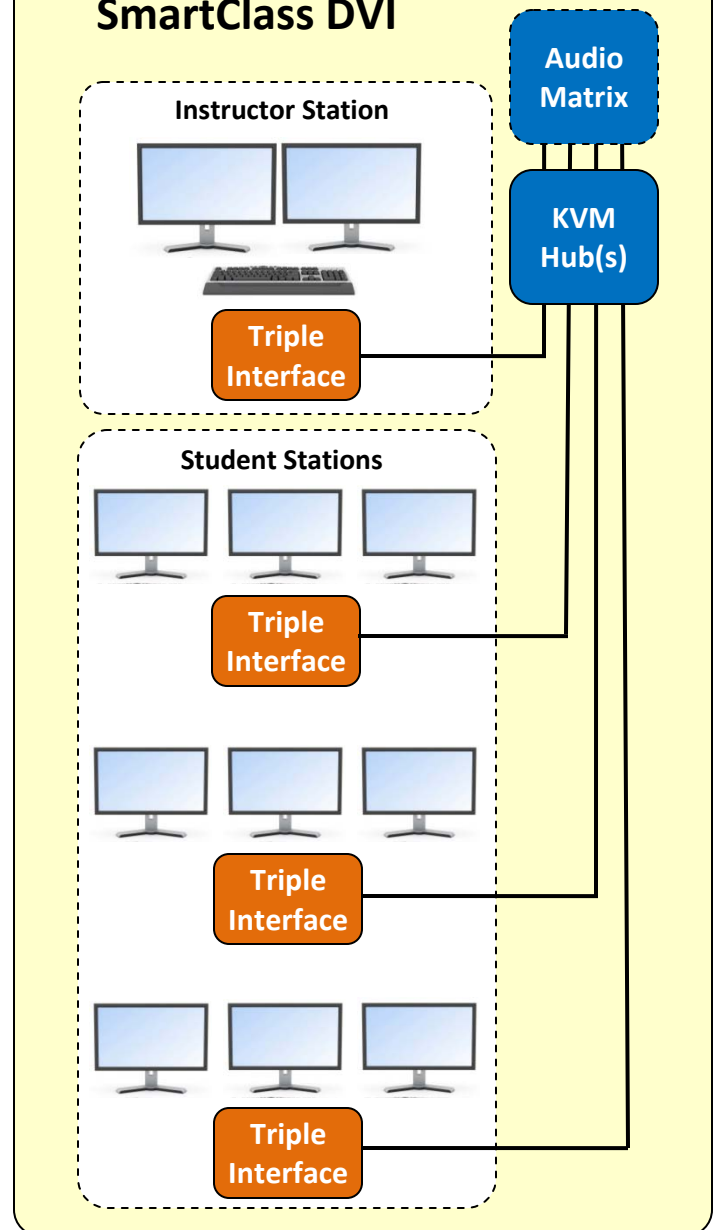
The KVM module physically intercepts the monitor, keyboard, and mouse connections between individual computer workstations and their peripherals, and connects them through a local "interface" module.

Interfaces (typically supporting multiple workstations) are connected to central switching equipment using dedicated CAT-5 (or CAT-6) cabling. This offloads all shared video from the school's data network and assures sufficient bandwidth for sharing full resolution, full color palette video signals.

KVM switching options include SmartClass VGA (for managing analog VGA connections) and the new SmartClass DVI (for managing single-link digital DVI connections).

All systems feature a star wiring topology with centralized switching hubs. Connection distances between the central equipment and the interfaces are up to 150 feet (with VGA) or up to 75 feet (with DVI).

## SmartClass DVI



### Optional Intercom Module

The Intercom, which supports inter-station audio communications, features matrix-switching technology with multiple independent communication channels. We offer all-software and hardware versions of the Intercom audio matrix to meet differing user needs for economy and audio quality.