

## ATEN HDMI Solution Establishes Effective Educational System

HDMI Matrix Switch VM5404H, HDBaseT Extender VE812 & HDMI Converter VC180/VC480

### OVERVIEW

#### Cooking School, Japan

In cooking schools, students need to cook food at their own table while following their instructor's demonstrations. In order to enhance the teaching-learning experience, the school decided to use cameras to transmit close-up video of what the instructor is cooking and broadcast it to monitors for students at different locations to easily see. Moreover, the teacher will also need to switch to a real-time view of a digital recipe / textbook, so a seamless switch between cameras and digital data on a PC will be critical.



### CHALLENGES

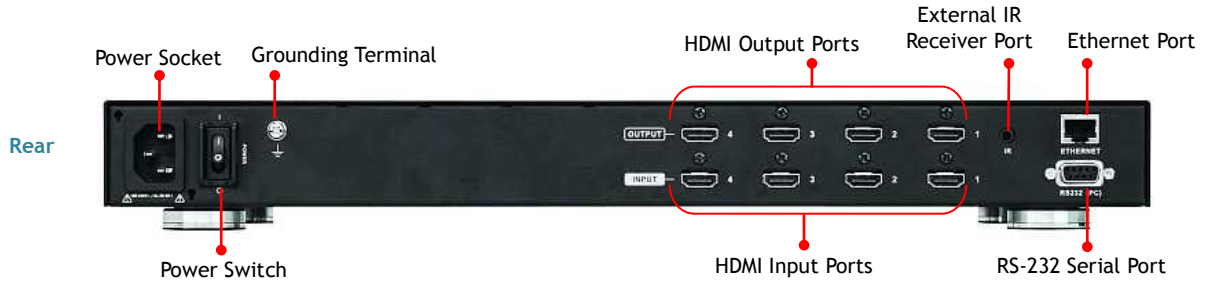
- They wanted to take close-up videos of the cooking instructor's hands and broadcast it to monitors installed at different locations in the classroom so that students can see every detail.
- There were varying distances between source devices and monitors.
- They also wanted to seamlessly switch between live-view displays and displaying the recipe / textbooks.
- It's a hassle for them to connect and use different devices with various interfaces, including HDMI (monitor), SDI (video camera) and VGA (PC).

### ATEN SOLUTION

VM5404H

4 x 4 HDMI Matrix Switch with Scaler





VE812  
HDMI Over Single Cat 5 Extender

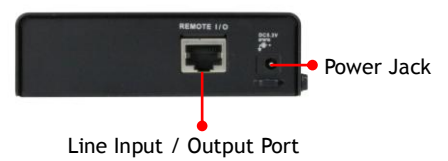
**Front: Transmitter**



**Front: Receiver**

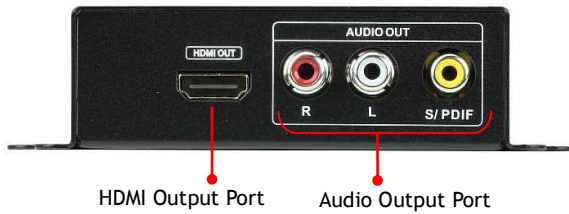


**Rear: Transmitter / Receiver**

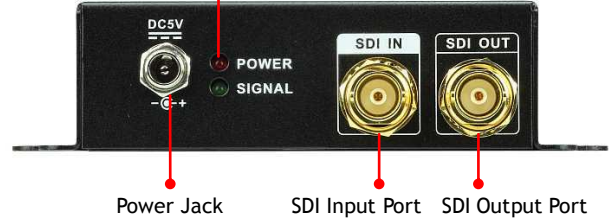


VC480  
3G/HD/SD-SDI to HDMI Converter

**Front**

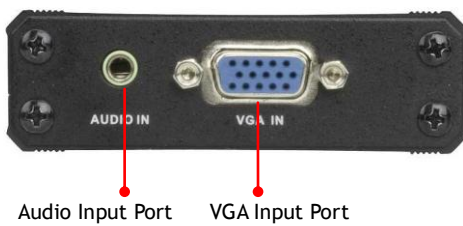


**Rear**

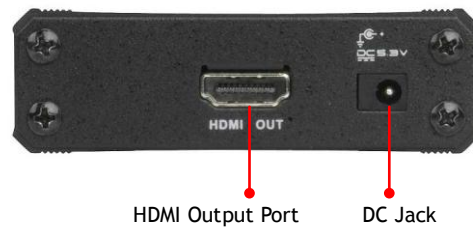


VC180  
VGA to HDMI Converter with Audio

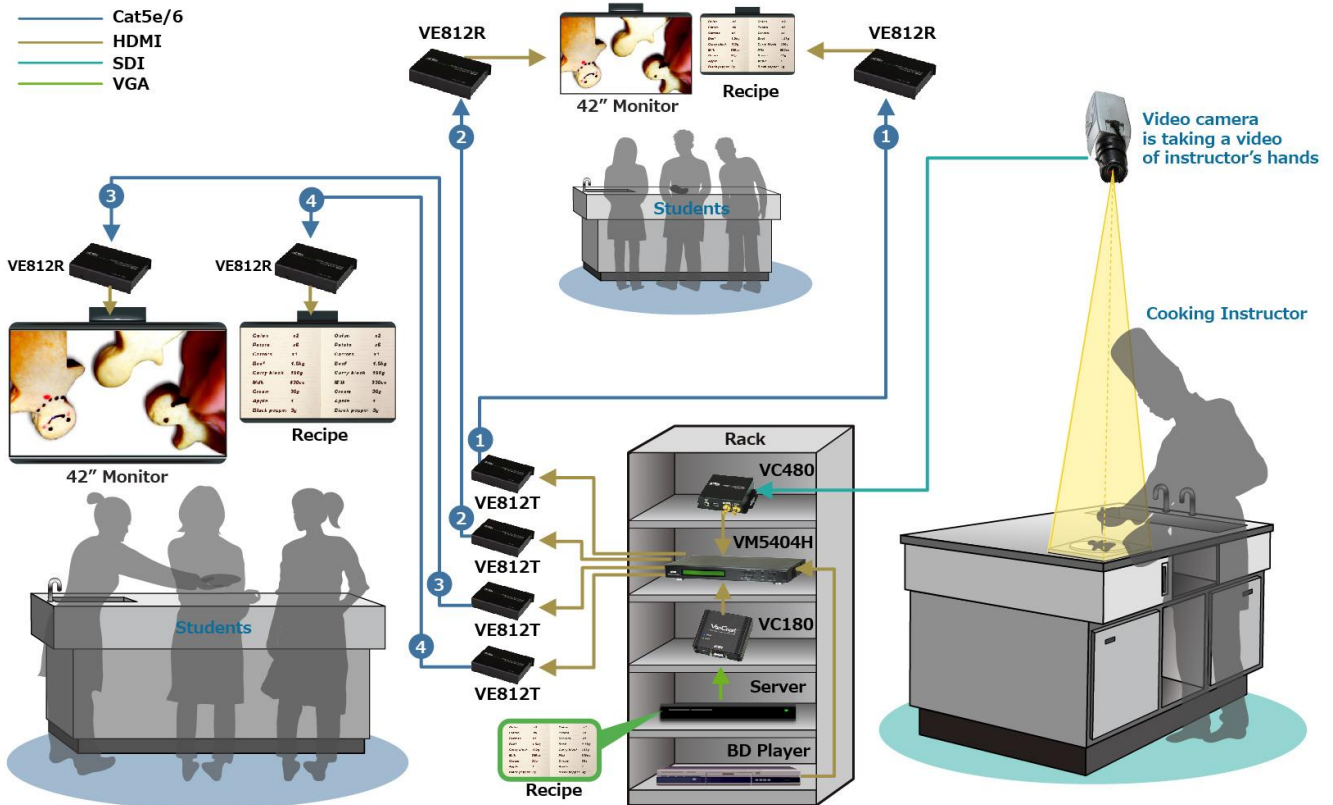
**Front**



**Rear**



## SOLUTION ARCHITECTURE



## FEATURES & BENEFITS

- **A Closer View with No Blind Spot** – The VM5404H can route up to 4 sources to 4 displays so that numerous devices can be connected to display content: A PC for recipes as well as cameras for capturing the instructor's cooking technique and steps so that students can watch from different locations within the classroom.
- **Display Anywhere You Like** – The VE812 implements HDBaseT extension technology, allowing a long-distance video display and a simplified cable deployment with only one Cat 5e/6 cable.
- **Without Missing Anything** – ATEN's Seamless Switch™ technology provides ultra-low latency video switching for students to see all instructions without missing any steps when the teacher switches among live-views and displaying the recipe/textbooks.
- **Effortless Integration** – The VC480 and VC 180 can respectively convert SDI (cameras) and VGA (PC) input signals into the HDMI format for monitors, which helps to integrate all the devices in the cooking school and greatly improves teaching efficiency.