A primary school in Hong Kong is looking for a major upgrade to its A/V multimedia system. The school requires up to 1080p signal transmission from 6 different sources (VGA and HDMI) to 1 website and 13 displays (VGA and HDMI) across their campus. The solution would need to extend up to 60 meters across 3 floors and carry a diverse range of source content, including the headmaster’s addresses during assembly and other events (camera), school announcements (camera), experiments and science projects (digital overhead projector), and educational movies (DVD player).

### Challenges
- Long distance 1080p video transmission across 3 floors.
- Broadcasting 6 different video sources (HDMI, VGA) to 13 displays throughout their campus.
- Integration and expandability of different devices with either HDMI or VGA interfaces.

### Solutions
**Video Matrix Switches**
- VM1600

**Video Extender**
- VE802

**Video Converters**
- VC180
- VC812

### Benefits
- The HDBaseT-Lite Extenders (VE802) are able to deliver 1080p HDMI video transmissions up to 70m via Cat 6a cables without requiring an external power source.

- The VC812 HDMI-to-VGA and VC180 VGA-to-HDMI converters provide complete compatibility between old and new hardware, allowing a smooth and cost-effective transition for the school.

- The VM1600’s module-like construction allows a variety of different input/output boards and ensures the solution is both dynamic and upgradeable.
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