Overview

Information such as the lunch menu, special events, expected guests and closure dates need to be communicated frequently in an educational environment for students and staff members. Traditional methods for communicating this information with signage offer many challenges. Methods such as printed posters and LED message boards become time consuming or complex to update and post while limiting the amount of content that can be advertised in a given space. Traditional methods might be overlooked by individuals due to the lack of attention grabbing animation or illumination. With digital signage, content can be updated quickly and seamlessly through software applications, as opposed to traditional methods which may require reprinting or complex programming. The use of animation and bright displays ensure maximum visibility to grab the attention of the audience.

How do Cables To Go solutions fit into this type of application?

Cables To Go offers a broad array of solutions to support your digital signage needs. Most lobby and reception areas typically use one or two displays at a minimal distance away from the media player or computer. Our UXGA splitter/extenders are a perfect solution for distributing the video signal to multiple displays without causing signal degradation over long distances. Our line of UXGA cabling such as RapidRun can accommodate cable installations up to 150 ft. away from the PC/media player or splitter unit to each display. In some cases a receptionist is responsible for maintaining and updating the content and may need to have access to the player or computer without adding additional peripherals or displays cluttering his or her workspace. Our line of KVM switches for digital signage applications allow the appropriate individual access to the player or computer using his or her current monitor and desktop peripherals.

Digital Signage Solution Example

A high school is interested in updating from a traditional letter board to a more advanced digital signage system. They would like to have a display in both the waiting area and at the front desk so that guests have the most visibility to the signage system. To keep costs at a minimum, a single office computer using a slideshow presentation will be used to play identical content to both displays. The computer will be placed under the receptionist's desk for easy access and maintenance. The receptionist will require access each morning to log in and start the content using only the keyboard, mouse and monitor currently on the desk. The cabling distance from the computer to the waiting room display is 15 ft. while the display at the front desk is only 6 ft. away.

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Solution Overview

The solution we recommend consists of our RapidRun modular cabling system along with a KVM switch and a 4-port VGA video splitter. Each runner cable is run from the secretary's desk to a display. 1.5ft RapidRun leads are attached to each end of the runner cables to allow for VGA connectivity. The terminated VGA leads at the secretary's desk are connected to the output of the VGA signal splitter (#29504) while the ends at each display are connected to the appropriate inputs on the monitors. The digital signage computer's VGA output is connected to the input of the VGA splitter, while the USB correction is attached to any available USB port. One of the two remaining outputs on the VGA splitter is connected with the included KVM cable to the KVM switch (#35554). The opposite end of the cable is then connected to one of the KVM switch's inputs. The remaining KVM cable is attached to the secretary's work computer's VGA and USB ports and then attached to the remaining input of the KVM switch. The output on the KVM switch is connected to the receptionist's desktop monitor, keyboard and mouse.

An alternate solution may use wireless communication to transmit video to multiple displays using the following setup:

The solution we recommend consists of our WDSDS transmitter (#29505), WDSDS receivers (#29506), DVI to VGA cables, a 2-port VGA video splitter, and a KVM switch. The digital signage computer's VGA output is connected to the input of the VGA splitter while the USB corrector is attached to any available USB port. One of the two outputs on the VGA splitter is connected with the included KVM cable to the KVM switch (#35554). The remaining KVM cable is attached to the secretary's work computer's VGA and USB ports and then attached to the remaining input of the KVM switch. The output on the KVM switch is connected to the secretary's desktop monitor, keyboard and mouse. The remaining output of the VGA splitter is connected to the WDSDS transmitter's video input using the DVI to VGA cable (#26954). Each WDSDS receiver is placed near a digital signage display and connected using DVI to VGA cables.

Solution Components

Description: TruLink® 4-Port UXGA Monitor Splitter/Extender
Application: Used to split the content from the single computer to the lobby display, front desk and the receptionist's monitor though a KVM
Part number: 29504
Quantity: 1

Description: TruLink® 2-Port VGA/ USB and PS/2 KVM Switch with Cables
Application: Used to share the desktop peripherals and monitor between the receptionist's work computer and the digital signage computer
Part number: 35554
Quantity: 1

Solution Components (continued)

Description: 6 ft RapidRun® CL2-Rated PC Runner Cable
Application: For use in connecting from the splitter/extender to the front desk display
Part number: 42134
Quantity: 1

Description: 15 ft RapidRun® CL2-Rated PC Runner Cable
Application: To connect from the splitter/extender to the waiting room display
Part number: 50710
Quantity: 1

Description: 1.5 ft RapidRun® HD15 Male Flying Lead
Application: To connect both ends of the runner cables used for the displays
Part number: 40725
Quantity: 4

Description: 6in VGA270™ HD15 UXGA M/M Monitor Cable
Application: To connect the splitter/extender to the KVM switch
Part number: 52091
Quantity: 1

Alternate Solution Components (wireless distribution)

Description: TruLink® Wireless Digital Signage Distribution System (WDSDS) Transmitter

Application: For use in transmitting digital content from the media player to the display
Part number: 29505
Quantity: 1

Description: TruLink® Wireless Digital Signage Distribution System (WDSDS) Receiver

Application: For use in receiving digital content from the media player and showing on the display
Part number: 29506
Quantity: 1 required for each display

Note: The solution described above is one of many connectivity solutions that Cables To Go can provide. For additional information on solutions for your particular application, please contact us.

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