Color Detection Server

Overview

The Color Detection Server monitors computers for color changes in order to automatically trigger alarms, improving response times and enhancing productivity in control room environments.

The Color Detection Server automatically analyzes computer screen images on desktops or video walls for color changes, without requiring any integration with the computer's applications. It is able to monitor up to 50 points simultaneously on a single computer screen or video wall, regardless of the number of applications. Furthermore, a single Color Detection Server can monitor up to 25 computer screens or video walls, yielding the ability to monitor hundreds of points. Color changes are common in SCADA or other control room applications, where indicators are displaying the status of situations, machines, contacts, etc. With the Color Detection Server, signals can be automatically detected to inform operators quickly so they can react appropriately.

How it Works

Detection points are defined by an array of pixels. Each point is defined by a color change specification (e.g. green turns to red) that shall trigger an alarm or an event. Once an alarm/event is triggered, a command is sent. This command may launch a layout or a scrolling message on the video wall or perform an action on another device like locking a door or sounding an alarm.
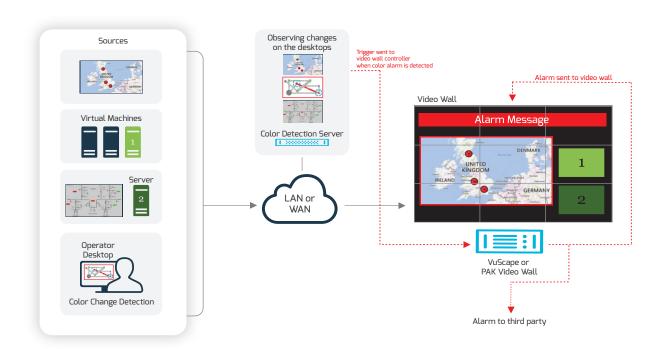

Diagram: Color Detection Workflow

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Background Analyses

While operators perform their daily tasks, the Color Detection Server is constantly analyzing signals in the background. Only when a signal or an event is detected, operators get a notification or the signal is automatically displayed on the operator display or video wall. When working with a large number of signals, this background analysis simplifies control room operations and improves the visual workspace of control room operators.

VNC Software Capture

Each PC that needs to be analyzed, requires a VNC/capture server installed that can be integrated to detect color changes. The Color Detection Server can process up to 25 VNC sources simultaneously.

Features

- ✔ Monitor up to 50 points per screen or video wall
- ✔ Monitor up to 25 computers or video walls
- ✔ Adjustable color changes (e.g. red to green)
- ✔ Monitor and analyze color changes on pixel arrays

- ✔ Trigger individual alarm per monitoring points
- ✔ Send commands to API of VuWall products and define scripts to visualize these alarms
- ✔ Send commands to 3rd party devices or relay contacts

Technical Specifications

Product Name	Color Detection Server	
Part Number	VW-ColorDetection-for-VW-Server running on VW-Server-MP-4*	VW-ColorDetection-for-ApplicationServer running on VW-Server-1U-R-4*
Dimensions	165 x 190 x 43mm (WxDxH) 6.5 x 7.5 x 1.7" (WxDxH)	437 x 503 x 43mm (WxDxH) 17.2 x 19.85 x 1.7" (WxDxH)
Weight	1.3kg / 2.9lbs	10 kg / 22 lbs
Power	External power supply with 100-240VAC	2x 100-240VAC
Power Consumption	120W	400W
Power Supply	Single	Redundant
Operating Conditions	0-40°C / 32-104°F Humidity 10-90%	5-35°C / 41-95°F Humidity: 10-90%
Warranty	3 years	
Network Interface		
Connectors and Standards	2 x RJ45, 1 GbE (each)	
IP Version & IP Addressing	IPv4 and IPv6, Static IP (Default) and DHCP	
Software		
Management	VuWall TRx and Color Detection Software	
Supported Devices	Up to 25 VuWall VNC sources	

VW-Server-MP-4
*(sold seperately)

VW-Server-1U-R-4
*(sold seperately)

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