

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, despite the number of applications. Furthermore, a single Color Detection Server can monitor up to 50 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.

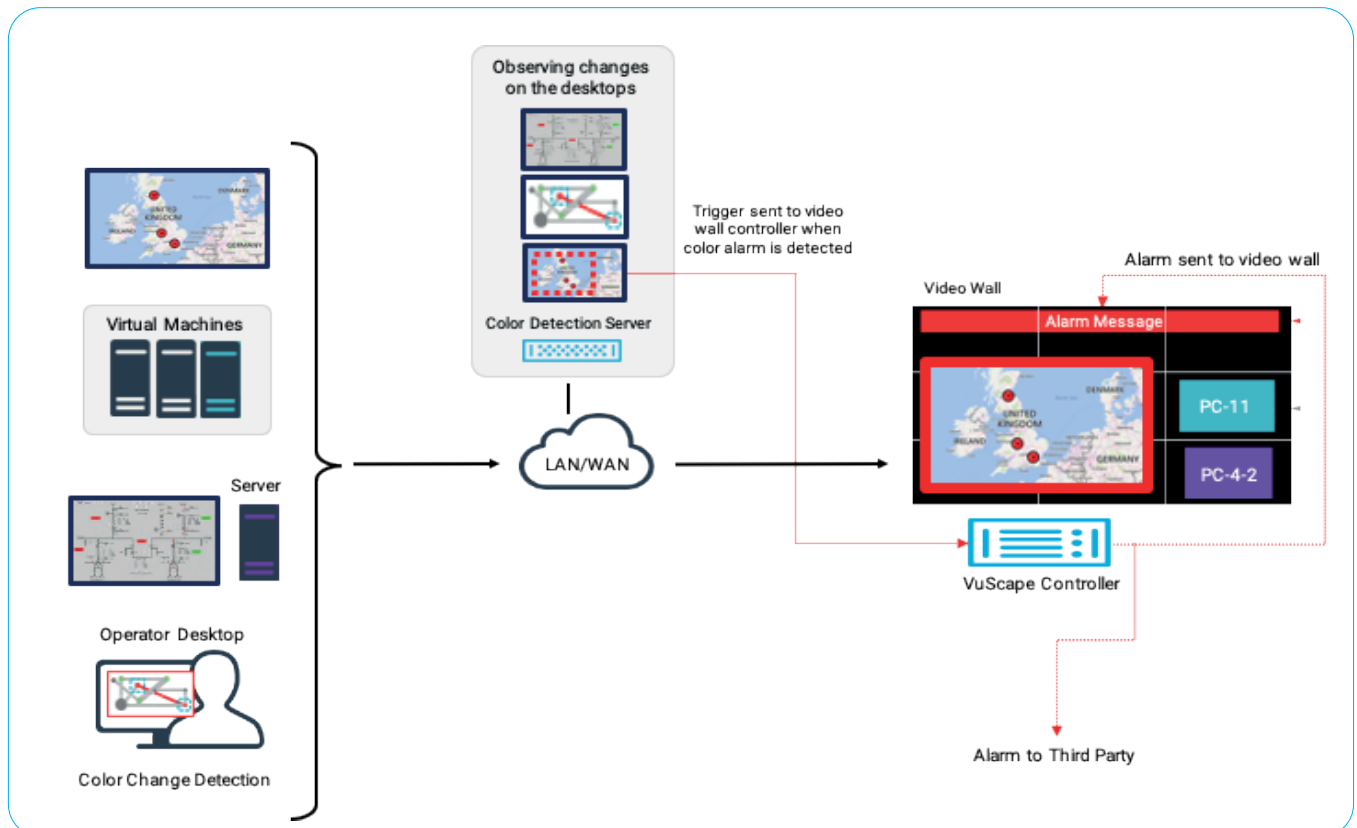


Diagram: Color Detection Workflow

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 lot 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 and can be integrated to detect color changes. The Color Detection Server can process up to 50 VNC sources simultaneously.



Color Detection Server

Features

- Monitor up to 50 points per computer or video wall
- Monitor up to 50 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

	Color Detection Server
CPU/RAM	Intel i5 / 8GB RAM
OS	Windows 10 IOT Enterprise LTSC
Enclosure	19" 1RU
Power	100-240 VAC, 350W
Operating Temperature	0 - 40°C (32 - 104°F)
Detection	up to 50 VuWall VNC sources
Capture Server OS Supported	Windows 10, Windows 7, Linux

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