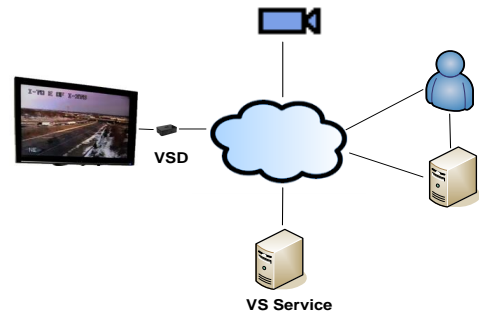# Remote Video Display Solution

The Turnkey Technology Remote Video Display Solution (RVDS) allows you to display a video stream on a remote video monitor, via our Video Streamer Device. This solution is ideal for controlling the video displayed in remote traffic management centers, 911 centers, or even information kiosks.

Our Video Streamer Device is connected to each monitor you wish to control remotely. Central server software is used to provide secure access to these devices to command them to display video, such as a traffic camera.

The user can interact directly with this system using a provided graphical user interface (GUI) accessible in their web browser. A system interface is also provided to allow you to integrate with your existing system.

The Components

Monitor (you provide)

Can be a computer monitor or TV. HDMI input suggested, but can also use DVI, VGA, or any other interface for which an HDMI conversion cable exists.

Video Streaming Device

A single board computer (SBC) containing our custom configuration and software. You connect this device to your monitor via HDMI, and connect it to your network. It requires Internet access to display video from the Internet, and access to any other network from which you wish to display video.

Video Source (you provide)

The video sources that can be displayed are any RTMP video streams accessible to the Video Streaming Device, such as traffic cameras on the Internet.

Video Streamer Service

The central software that runs on hardware that you provide. Runs on Windows or Linux, commands Video Streaming Devices to display video without the need for direct access by a user. Includes a web-based user interface for configuration, status, and control.
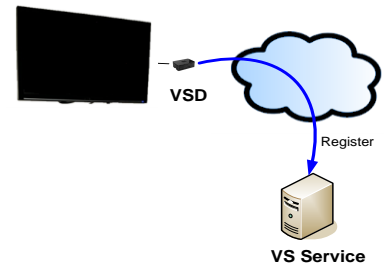
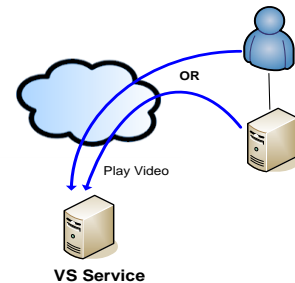## External System (optional, you provide)

Our system provides a REST interface to allow you to integrate it into an existing system, allowing your users to control the video displayed on remote monitors.
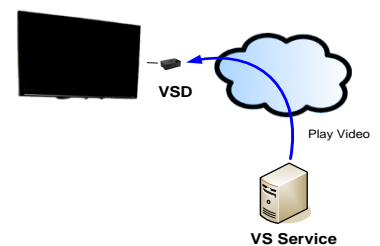
How it Works

1. Each Video Streaming Device registers itself with the central Video Streamer Service upon startup, and maintains the connection to allow inbound commands. It will continually attempt to register until successful, and retry if the connection is lost, allowing you to start system components in any order. This is an outbound connection to a known service, therefore minimizing firewall and security issues.

2. The user, via our web-based user interface, **or** via your system (if integrated), selects the video to be displayed on a monitor, and our software (or yours) sends a command to the Video Streamer Service identifying the monitor and video stream.

3. The central Video Streamer Service commands the Video Streamer Device to play a video stream, via its already established network connection. No new inbound connection is required.

4. The Video Streamer Device streams the video from its source (such as the Internet) and because it is connected to a monitor, the video appears on that monitor.