LocusMaps on Digital Display Hardware Recommendations

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Overview

This document describes LocusLabs recommended hardware and software for operating LocusMaps on Digital Display. A software application for providing users a safe touchless experience for on-demand information such as maps, directions, using pre-installed, static, non-interactive displays.

Best Practices

The best thing about the touchless screen needs of LocusMaps on Digital Display, is the wide array of options available. Here is a list of some best practices from LocusLabs.

1. Commercial Grade, Large-format, Non-touch capacity digital screens
2. LocusMaps On Digital Display is designed as a full-screen application in portrait mode, running at 16:9 resolution, at 1080 x 1920 pixels at 40Hz.
3. A recommended minimum panel bit depth of 6 bits.

Hardware Recommendations

Displays

There are a number of vendors such as Samsung, LG, Dell and others that provide commercial-grade high resolution displays. We recommend the following non-interactive display features:

1. 24 inch or larger non-interactive, commercial grade display.
2. 16:9 aspect ratio
3. 1080 x 1920 pixels (standard HD).
4. Portrait Mode
5. Requires public internet connection to Amazon AWS

Computer

LocusMaps on Digital Display can run on a dedicated computer or be installed on screens, using the LocusVMS. LocusLabs Maps on Digital Display requires computers that are compatible with either Windows OS or Mac OS.

If you dedicate a computer to the display(s). For the best visual experience, we recommend the following specifications.

1. Minimum Computing Specifications
    a. Intel computer with Pentium 4 or later
    b. 4 GB of RAM / 128 GB storage (HD or SSD)
    c. Dedicated graphics (GPU)
        i. Integrated graphics

Software Recommendations

Application & Management Tool

LocusMaps on Digital Display is configured and deployed via LocusVMS. LocusVMS is accessed using an internet browser or laptop or desktop devices running Windows or Mac OS. LocusLabs hosts both the LocusVMS & LocusMaps on Digital Display applications.

LocusMaps on Digital Display is a hosted software application. Customers configure using a laptop of desktop and deploy screen configurations to a URL from the LocusVMS management tool. Each application URL is unique.

Operating System

Windows 10 or newer
Mac OS Big Sur or newer
Linux and Chrome OS are not supported at this time

Web Browser

This hosted software application runs as a full-screen Web browser application on a non-interactive display. We recommend utilizing the latest version of Google Chrome web browser.

Internet Connections

LocusMaps On Digital Display requires a persistent, stable Internet connection to Amazon AWS. Internet connections over Ethernet are preferred but a stable high-speed Wi-Fi connection will work as well.

Appendix

General Screen Size, Resolution, Viewing Distance Reference Guides
- https://www.rgb.com/display-size-resolution-and-ideal-viewing-distance
- https://medium.com/@telemetrytv/choosing-the-right-tv-display-for-digital-signage-551da184f62d

Display Screen Recommendations
- LG SM5KE 32" Class Full HD Commercial IPS LED Display
  LG UH5F-H 43" Class 4K UHD Digital Signage & Conference Room Smart IPS LED Display
- LG UH7F-B Series 49" UHD IPS Signage Display
- LG SM5KE 55" Class Full HD Commercial IPS LED Display

The LocusMaps on Digital Display offers two distinct QR Code visual sizes.
- Normal: Overlays QR code in the footer with Map Instance above.
- Full Screen: includes Title and Description. Screen oscillates between QR Code and Map Instance.

When using the QR Code feature, please use the following formula to calculate the most ideal viewing distance and screen size used.
- Distance Between QR Code and Scanner (phone camera) ÷ 10 = QR Code Size

Visit http://www.locuslabs.com/specs for updated LocusLabs product specifications.