

Vernier Software & Technology

Accessibility Conformance Report

Revised Section 508 Edition – VPAT® Version 2.4

Name of Product/Version: LabQuest Viewer App for iPad®

Product Description: App that displays and controls one or more LabQuest device screens using an iPad.

Report Date: June 15, 2020

Contact Information: support@vernier.com

Notes: The primary use of this app is for teachers using an iPad and a projector (or interactive whiteboard) to display the screen of a LabQuest data collection interface for demonstrations and class discussions. Since the screen contents of a LabQuest can be displayed on a iPad screen and the device interactions completed by interacting with the iPad touch screen, this app can be beneficial for individuals that have limited sight and/or restrictive fine-motor skills that want to use a LabQuest device.

This app is not designed for use by the blind. For blind users that are also using LabQuest 2, we recommend the [SciVoice Talking LabQuest version 2](#) available from Independence Science. The Talking LabQuest 2 is a LabQuest 2 unit running specialized software that adds the talking functionality to the device. For more information, contact Independence Science at 1-866-862-9665 or visit their web site <http://independencescience.com>.

Evaluation Methods Used: Testing is based on general product knowledge

Applicable Standards/Guidelines

This report covers the degree of conformance for the following accessibility standard/guidelines:

Standard/Guideline
Web Content Accessibility Guidelines 2.0 for levels A and AA
Revised Section 508 standards published January 18, 2017 and corrected January 22, 2018

Terms

The terms used in the Conformance Level information are defined as follows:

- **Supports:** The functionality of the product has at least one method that meets the criterion without known defects or meets with equivalent facilitation.
- **Partially Supports:** Some functionality of the product does not meet the criterion.
- **Does Not Support:** The majority of product functionality does not meet the criterion.
- **Not Applicable:** The criterion is not relevant to the product.

WCAG 2.0 Report

This information also documents conformance with the following:

- Chapter 5 – 501.1 Scope, 504.2 Content Creation or Editing
- Chapter 6 – 602.3 Electronic Support Documentation

Note: When reporting on conformance with the WCAG 2.0 Success Criteria, they are scoped for full pages, complete processes, and accessibility-Supports ways of using technology as documented in the [WCAG 2.0 Conformance Requirements](#).

Success Criteria, Levels A and AA

Notes: This entry is for software and Supports documents. LabQuest Viewer app is not a Web or Authoring tool. The main feature of this app is the VNC display of the screen of a LabQuest device. Programmatic control of the screen is done on the LabQuest itself and not in the LabQuest Viewer app. Information on what is being displayed on the LabQuest screen is not available to assistive technologies through the LabQuest Viewer app. Other features of the app, such as those related to the selection of LabQuest units to display, are Supports with assistive technologies.

Criteria	Conformance Level	Remarks and Explanations
<u>1.1.1 Non-text Content</u> (Level A) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) 602.3 (Support Docs) 	Electronic Docs: Supports Software: Does Not Support	The displayed screen of a LabQuest cannot be read by assistive devices nor is there equivalent alternative text that serves the same purpose.
<u>1.2.1 Audio-only and Video-only (Prerecorded)</u> (Level A) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) 602.3 (Support Docs) 	Electronic Docs: Not Applicable Software: Not Applicable	There is no prerecorded audio or video content used in the app or user documentation of LabQuest Viewer app.
<u>1.2.2 Captions (Prerecorded)</u> (Level A) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) 602.3 (Support Docs) 	Electronic Docs: Not Applicable Software: Not Applicable	There is no prerecorded audio content used in the app or user documentation of LabQuest Viewer app.
<u>1.2.3 Audio Description or Media Alternative (Prerecorded)</u> (Level A) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) 602.3 (Support Docs) 	Electronic Docs: Not Applicable Software: Not Applicable	There is no prerecorded audio content used in the app or user documentation of LabQuest Viewer app.
<u>1.2.4 Captions (Live)</u> (Level AA) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) 602.3 (Support Docs) 	Electronic Docs: Not Applicable Software: Not Applicable	There is no live audio content or synchronized media used in the app or user documentation of LabQuest Viewer app.

Criteria	Conformance Level	Remarks and Explanations
<u>1.2.5 Audio Description (Prerecorded)</u> (Level AA) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) 602.3 (Support Docs) 	Electronic Docs: Not Applicable Software: Not Applicable	There is no prerecorded video content used in the app or user documentation of LabQuest Viewer app.
<u>1.3.1 Info and Relationships</u> (Level A) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) 602.3 (Support Docs) 	Electronic Docs: Supports Software: Partially Supports	The structure and relationships conveyed through presentation on the displayed LabQuest screen cannot be programmatically determined and not available in text.
<u>1.3.2 Meaningful Sequence</u> (Level A) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) 602.3 (Support Docs) 	Electronic Docs: Supports Software: Partially Supports	The content presentation sequence of the displayed LabQuest screen cannot be programmatically determined.
<u>1.3.3 Sensory Characteristics</u> (Level A) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) 602.3 (Support Docs) 	Electronic Docs: Supports Software: Partially Supports	Navigating the displayed LabQuest screen depends solely on visual location of the elements.
<u>1.4.1 Use of Color</u> (Level A) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) 602.3 (Support Docs) 	Electronic Docs: Supports Software: Supports	The LabQuest Viewer app does not rely on color.
<u>1.4.2 Audio Control</u> (Level A) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) 602.3 (Support Docs) 	Electronic Docs: Not Applicable Software: Not Applicable	The LabQuest Viewer app does not use audio.

Criteria	Conformance Level	Remarks and Explanations
<u>1.4.3 Contrast (Minimum)</u> (Level AA) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) 602.3 (Support Docs) 	Electronic Docs: Supports Software: Supports	LabQuest Viewer app adheres to the contrast rule.
<u>1.4.4 Resize text</u> (Level AA) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) 602.3 (Support Docs) 	Electronic Docs: Supports Software: Supports	LabQuest Viewer app text can be resized via screen resolution changes without loss of readability of the text.
<u>1.4.5 Images of Text</u> (Level AA) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) 602.3 (Support Docs) 	Electronic Docs: Supports Software: Does not Support	Text can be part of a displayed LabQuest screen and therefore can be considered an image of text with respect to the LabQuest Viewer app. The size of the displayed LabQuest screen is not user customizable.
<u>2.1.1 Keyboard</u> (Level A) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) 602.3 (Support Docs) 	Electronic Docs: Supports Software: Partially Supports	Keyboard shortcuts related to the displayed LabQuest screen are not applicable to the LabQuest.
<u>2.1.2 No Keyboard Trap</u> (Level A) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) 602.3 (Support Docs) 	Electronic Docs: Supports Software: Supports	LabQuest Viewer app does not contain any known keyboard traps within the app.
<u>2.2.1 Timing Adjustable</u> (Level A) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) 602.3 (Support Docs) 	Electronic Docs: Not Applicable Software: Supports	There are no time limits set for content within the LabQuest Viewer app.

Criteria	Conformance Level	Remarks and Explanations
2.2.2 Pause, Stop, Hide (Level A) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) 602.3 (Support Docs) 	Electronic Docs: Not Applicable Software: Supports	Changes to a displayed LabQuest screen are controlled by changes made to the LabQuest itself. The LabQuest only has automatic updates of information during data collection. The rate of updates is controlled through user settings on the LabQuest and must be applied prior to initiating data collection.
2.3.1 Three Flashes or Below Threshold (Level A) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) 602.3 (Support Docs) 	Electronic Docs: Supports Software: Supports	LabQuest Viewer app does not use flashing to convey user information.
2.4.1 Bypass Blocks (Level A) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) – Does not apply to non-web software 602.3 (Support Docs) – Does not apply to non-web docs 	Electronic Docs: Supports	LabQuest Viewer app user documentation does not knowingly use repeated blocks of content.
2.4.2 Page Titled (Level A) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) 602.3 (Support Docs) 	Electronic Docs: Supports Software: Supports	LabQuest Viewer app user documentation pages are titled. LabQuest Viewer app is a single-page application.
2.4.3 Focus Order (Level A) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) 602.3 (Support Docs) 	Electronic Docs: Supports Software: Partially Supports	Focus order of the elements of the displayed LabQuest screen are not included in the focus order of the LabQuest Viewer app.
2.4.4 Link Purpose (In Context) (Level A) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) 602.3 (Support Docs) 	Electronic Docs: Supports Software: Not Applicable	LabQuest Viewer app user documentation uses readable link text. LabQuest Viewer app does not utilize links.

Criteria	Conformance Level	Remarks and Explanations
<u>2.4.5 Multiple Ways</u> (Level AA) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) – Does not apply to non-web software 602.3 (Support Docs) – Does not apply to non-web docs 	Not Applicable	LabQuest Viewer app is not web-based app and user documentation is not web-based content.
<u>2.4.6 Headings and Labels</u> (Level AA) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) 602.3 (Support Docs) 	Electronic Docs: Supports Software: Supports	LabQuest Viewer app uses descriptive heading labels when used in the app.
<u>2.4.7 Focus Visible</u> (Level AA) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) 602.3 (Support Docs) 	Electronic Docs: Supports Software: Supports	LabQuest Viewer app uses visual indicators to represent which section of the app has focus.
<u>3.1.1 Language of Page</u> (Level A) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) 602.3 (Support Docs) 	Electronic Docs: Does Not Support Software: Supports	LabQuest Viewer app user documentation is always in English. The language has not been programmatically set. LabQuest Viewer app programmatically uses the default language of the operating system of the iPad.
<u>3.1.2 Language of Parts</u> (Level AA) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) 602.3 (Support Docs) 	Electronic Docs: Does Not Support Software: Does Not Support	The language of the LabQuest Viewer add documentation cannot be determined programmatically. It is always in English. The language of a displayed LabQuest does not necessarily match the language used by the LabQuest Viewer app. The LabQuest Viewer app cannot programmatically determine the language of a displayed LabQuest.

Criteria	Conformance Level	Remarks and Explanations
<u>3.2.1 On Focus</u> (Level A) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) 602.3 (Support Docs) 	Electronic Docs: Supports Software: Supports	LabQuest Viewer app does not change the context of an object when it receives focus in the app or in the user documentation.
<u>3.2.2 On Input</u> (Level A) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) 602.3 (Support Docs) 	Electronic Docs: Supports Software: Supports	LabQuest Viewer app does not automatically change the context of a user interface component when a setting within the user interface component is changed.
<u>3.2.3 Consistent Navigation</u> (Level AA) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) – Does not apply to non-web software 602.3 (Support Docs) – Does not apply to non-web docs 	Electronic Docs: Not Applicable Software: Not Applicable	LabQuest Viewer app is not web-based software and user documentation is not web-based content.
<u>3.2.4 Consistent Identification</u> (Level AA) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) – Does not apply to non-web software 602.3 (Support Docs) – Does not apply to non-web docs 	Electronic Docs: Not Applicable Software: Not Applicable	LabQuest Viewer app is not web-based software and user documentation is not web-based content.
<u>3.3.1 Error Identification</u> (Level A) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) 602.3 (Support Docs) 	Electronic Docs: Supports Software: Supports	LabQuest Viewer app identifies error conditions and the error is described in text.
<u>3.3.2 Labels or Instructions</u> (Level A) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) 602.3 (Support Docs) 	Electronic Docs: Supports Software: Supports	LabQuest Viewer app includes labels on all user input fields.

Criteria	Conformance Level	Remarks and Explanations
<u>3.3.3 Error Suggestion</u> (Level AA) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) 602.3 (Support Docs) 	Electronic Docs: Supports Software: Supports	LabQuest Viewer app provides error information whenever an error condition is automatically detected and suggested corrections are known.
<u>3.3.4 Error Prevention (Legal, Financial, Data)</u> (Level AA) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) 602.3 (Support Docs) 	Electronic Docs: Supports Software: Supports	LabQuest Viewer app does not interact with any systems or web pages that would have a user make a legal commitment or financial transaction of any kind. LabQuest Viewer app does not link to user-controllable data in any data base.
<u>4.1.1 Parsing</u> (Level A) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) 602.3 (Support Docs) 	Electronic Docs: Supports Software: Supports	LabQuest Viewer app follows all rules involving parsing of content provided using markup languages.
<u>4.1.2 Name, Role, Value</u> (Level A) Also applies to: Revised Section 508 <ul style="list-style-type: none"> 501 (Software) 602.3 (Support Docs) 	Electronic Docs: Supports Software: Supports	LabQuest Viewer app adheres to name and role guidelines for all UI elements and notification of changes to these items are available to assistive technologies.

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Chapter 3: [Functional Performance Criteria \(FPC\)](#)

Notes: The main feature of this app is the VNC display of the screen of a LabQuest device. Programmatic control of the screen is done on the LabQuest itself and not in the LabQuest Viewer app. Information on what is being displayed on the LabQuest screen is not available to assistive technologies through the LabQuest Viewer app. Other features of the app, such as those related to the selection of LabQuest units to display, are Supports with assistive technologies.

Criteria	Conformance Level	Remarks and Explanations
302.1 Without Vision	Does Not Support	The LabQuest Viewer app is not designed for users without vision.
302.2 With Limited Vision	Partially Supports	The LabQuest Viewer app is not designed for limited vision users that require an auditory mode of operation.
302.3 Without Perception of Color	Supports	Perception of color is not required when using LabQuest Viewer app.
302.4 Without Hearing	Supports	Perception of sound is not required when using LabQuest Viewer app.
302.5 With Limited Hearing	Supports	Perception of sound is not required when using LabQuest Viewer app.
302.6 Without Speech	Supports	Speech is not used for input with LabQuest Viewer app.
302.7 With Limited Manipulation	Partially Supports	This is limited by the usability of an iPad® tablet's touch interface.
302.8 With Limited Reach and Strength	Supports	Reach and Strength not required when using LabQuest Viewer app.
302.9 With Limited Language, Cognitive, and Learning Abilities	Partially Supports	LabQuest Viewer app can be used by K-5 level students with general support from an instructor.

Chapter 4: [Hardware](#)

Notes: LabQuest Viewer app is an iPad® app. Hardware standards do not apply to this product.

Chapter 5: [Software](#)

Notes: The main feature of this app is the VNC display of the screen of a LabQuest device. Programmatic control of the screen is done on the LabQuest itself and not in the LabQuest Viewer app. Information on what is being displayed on the LabQuest screen is not available to assistive technologies through the LabQuest Viewer app. Other features of the app, such as those related to the selection of LabQuest units to display, are Supports with assistive technologies.

Criteria	Conformance Level	Remarks and Explanations
501.1 Scope – Incorporation of WCAG 2.0 AA	See WCAG 2.0 section	See information in WCAG 2.0 section
502 Interoperability with Assistive Technology		
502.2.1 User Control of Accessibility Features	Supports	LabQuest Viewer does not include any accessibility features.
502.2.2 No Disruption of Accessibility Features	Supports	LabQuest Viewer app does not disrupt platform features designated accessibility features.
502.3 Accessibility Services		
502.3.1 Object Information	Partially Supports	An object's role, state(s), properties, boundary, name, and description from the displayed LabQuest screen are not programmatically determinable.
502.3.2 Modification of Object Information	Partially Supports	States and properties from the displayed LabQuest screen that can be set by the user are not capable of being set programmatically.
502.3.3 Row, Column, and Headers	Partially Supports	Objects from the displayed LabQuest screen that are in a data table are not programmatically determinable.
502.3.4 Values	Partially Supports	Any value(s), and any set or range of allowable values associated with an object from the displayed LabQuest screen are not programmatically determinable.
502.3.5 Modification of Values	Partially Supports	Values from the displayed LabQuest screen that can be set by the user cannot be set programmatically.
502.3.6 Label Relationships	Partially Supports	Any relationship that a component has as a label for another component, or of being labeled by another component from the displayed LabQuest screen cannot be determined programmatically.

Criteria	Conformance Level	Remarks and Explanations
502.3.7 Hierarchical Relationships	Partially Supports	Any hierarchical (parent-child) relationship that a component has as a container for, or being contained by, another component from the displayed LabQuest screen cannot be determined programmatically.
502.3.8 Text	Partially Supports	The content of text objects, text attributes, and the boundary of text rendered to the screen from the displayed LabQuest screen cannot be determined programmatically.
502.3.9 Modification of Text	Partially Supports	Text that can be set by the user from the displayed LabQuest screen cannot be set programmatically.
502.3.10 List of Actions	Partially Supports	A list of all actions that can be executed from the displayed LabQuest screen cannot be determined programmatically.
502.3.11 Actions on Objects	Partially Supports	Assistive technology cannot be used to programmatically execute available actions on a displayed LabQuest screen.
502.3.12 Focus Cursor	Partially Supports	The app does not expose information and mechanisms necessary to track focus, text insertion point, and selection attributes on a displayed LabQuest screen.
502.3.13 Modification of Focus Cursor	Partially Supports	Focus, text insertion point, and selection attributes that can be set by the user on a displayed LabQuest screen cannot be set programmatically.
502.3.14 Event Notification	Partially Supports	Notification of events relevant to user interactions, including but not limited to, changes in the component's state(s), value, name, description, or boundary, are not available to assistive technology for a displayed LabQuest screen.
502.4 Platform Accessibility Features	Supports	LabQuest Viewer app is not platform software.
<u>503 Applications</u>		
503.2 User Preferences	Supports	LabQuest Viewer app permits user preferences from platform settings for color, contrast, font type, font size, and focus cursor.

Criteria	Conformance Level	Remarks and Explanations
503.3 Alternative User Interfaces	Not Applicable	LabQuest Viewer app does not use alternative user interfaces.
<i>503.4 User Controls for Captions and Audio Description</i>		
503.4.1 Caption Controls	Not Applicable	LabQuest Viewer app does not display videos with synchronized audio.
503.4.2 Audio Description Controls	Not Applicable	LabQuest Viewer app does not provide audio description user controls.
<u>504 Authoring Tools</u>	Not Applicable	LabQuest Viewer app is not an authoring tool.

Chapter 6: [Support Documentation and Services](#)

Criteria	Conformance Level	Remarks and Explanations
601.1 Scope		
602 Support Documentation		
602.2 Accessibility and Compatibility Features	Does Not Support	LabQuest Viewer app documentation does not include accessibility and compatibility information.
602.3 Electronic Support Documentation	See WCAG 2.0 section	See information in WCAG 2.0 section
602.4 Alternate Formats for Non-Electronic Support Documentation	Supports	Support documentation is provided in electronic format.
603 Support Services		
603.2 Information on Accessibility and Compatibility Features	Does Not Support	Support services do not include information on accessibility and compatibility features.
603.3 Accommodation of Communication Needs	Does Not Support	Support services do not include accommodation of communication needs.