

Voluntary Product Accessibility Template (VPAT)

Name of Product: Canon EOS 50D (EF 28-135 IS USM KIT)

Date: June 29, 2009

Note: This document was prepared based on normal walk-up functionality. It does not include maintenance and troubleshooting procedures. **The information contained in this document is proprietary information and is not for reproduction, publication or manipulation in any way or form.** This template addresses a multitude of **Canon EOS 50D (EF 28-135 IS USM KIT)** features; however, any specific inquiries should be made to accessibility@cusa.canon.com.

The rules below refer to the Electronic and Information Technology Accessibility Standards (covered by Section 508 of the Rehabilitation Act of 1998) issued by the Architectural and Transportation Compliance Board. Comments in the "Supporting Features" column are based on the Information Technology Industry Council's suggested language for use when filling out the Voluntary Product Accessibility Template. The Remarks and Explanations column provides additional information on the evaluation results, and explains the standard functions of the **Canon EOS 50D (EF 28-135 IS USM KIT)** that can accommodate users with disabilities.

Summary Table
Voluntary Product Accessibility Template

Criteria	Supporting Features	Remarks and explanations
Section 1194.21 Software Applications and Operating Systems	Supports with exceptions*	
Section 1194.22 Web-based Internet Information and Applications	Not Applicable	Not Web-based Internet Information or Application
Section 1194.23 Telecommunications Products	Not Applicable	Not a Telecommunications Product
Section 1194.24 Video and Multi-media Products	Not Applicable	Not a Video/ Multi-media Product
Section 1194.25 Self-Contained, Closed Products	Supports with exceptions*	
Section 1194.26 Desktop and Portable Computer	Not Applicable	Not a Desktop/Portable Computer
Section 1194.31 Functional Performance Criteria	Supports with exceptions*	
Section 1194.41 Information, Documentation, and Support	Supports with exceptions*	

*Please refer to the following pages for detailed information on supporting features and exceptions.

Section 1194.21 Software Applications and Operating Systems

Criteria	Supporting Features	Remarks and explanations
(a) When software is designed to run on a system that has a keyboard, product functions shall be executable from a keyboard where the function itself or the result of performing a function can be discerned textually.	<u>EOS Utility:</u> Supports <u>Digital Photo Professional:</u> Supports <u>Zoom Browser EX:</u> Supports with exceptions	<u>EOS Utility:</u> Almost all the functions can be executed from a keyboard without use of a mouse. Some buttons cannot be accessed from a keyboard only, but their functions can be executed through the operation by using Menu bar. <u>Digital Photo Professional:</u> Almost all the functions can be executed from a keyboard without use of a mouse. Some buttons cannot be accessed from a keyboard only, but their functions can be executed through the operation by using Menu bar. <u>Zoom Browser EX:</u> Downloading images from the digital camera to a PC, a major task, can be executed from a keyboard without use of a mouse. Almost all functions available from the browser area and some print settings also can be executed from a keyboard and the menu bar. Selecting a single image can be executed using a keyboard while in the printer and layout settings window. However, pressing the print button to start the print job and navigation between Task, Folder, and Browser area cannot be executed from a keyboard.
(b) Applications shall not disrupt or disable activated features of other products that are identified as accessibility features, where those features are developed and documented according to industry standards. Applications also shall not disrupt or disable activated features of any operating system that are identified as accessibility features where the application programming interface for those accessibility features has been documented by the manufacturer of the operating system and is available to the product developer.	<u>EOS Utility:</u> Supports <u>Digital Photo Professional:</u> Supports <u>Zoom Browser EX:</u> Supports	Starting up any application does not affect the main accessibility features run on any operating system.
(c) A well defined on-screen indication of the current focus shall be provided that moves among interactive interface elements as the input focus changes. The focus shall be programmatically exposed so that Assistive Technology can track focus and focus changes.	<u>EOS Utility:</u> Supports with exception <u>Digital Photo Professional:</u>	<u>EOS Utility:</u> The screen reader can track focus and focus changes for function of [control Camera], [Accessories], [Preferences] and [Quit]. <u>Digital Photo Professional:</u> In many areas, a screen reader can track focus

	<p>Supports with exceptions</p> <p><u>Zoom Browser EX:</u> Supports with exceptions</p>	<p>and focus changes. However, in some elements on Browser Area and Tool palette, no focus is programmatically exposed, so that a screen reader cannot track focus and focus changes.</p> <p><u>Zoom Browser EX:</u> In many areas, a screen reader can track focus and focus changes. However, in some elements, no focus is programmatically exposed, so that a screen reader cannot track focus and focus changes.</p>
(d) Sufficient information about a user interface element including the identity, operation and state of the element shall be available to Assistive Technology. When an image represents a program element, the information conveyed by the image must also be available in text.	<p><u>EOS Utility:</u> Supports with exceptions</p> <p><u>Digital Photo Professional:</u> Supports with exceptions</p> <p><u>Zoom Browser EX:</u> Supports with exceptions</p>	<p><u>EOS Utility:</u> The screen reader can read the identity, operation, or status for function of [control Camera], [Accessories], [Preferences] and [Quit].</p> <p><u>Digital Photo Professional:</u> In many areas, a screen reader can read the identity, operation, or status. However, a screen reader is unable to read the identity, operation, or status for some functions of the Browser Area and Tool palette.</p> <p><u>Zoom Browser EX:</u> In many areas, a screen reader can read the identity, operation, or status. However, a screen reader is unable to read the identity, operation, or status for some functions of the Browser Area and Task Area.</p>
(e) When bitmap images are used to identify controls, status indicators, or other programmatic elements, the meaning assigned to those images shall be consistent throughout an application's performance.	<p><u>EOS Utility:</u> Supports</p> <p><u>Digital Photo Professional:</u> Supports</p> <p><u>Zoom Browser EX:</u> Supports</p>	<p>The bitmap image indicates the function's identity and state. The meaning assigned to that image is consistent throughout the application's performance.</p>
(f) Textual information shall be provided through operating system functions for displaying text. The minimum information that shall be made available is text content, text input caret location, and text attributes.	<p><u>EOS Utility:</u> Supports with exceptions</p>	<p><u>EOS Utility:</u> Textual information is provided through operating system functions for displaying text. A screen reader can track text content, text input caret location and text attributes for function of [control Camera], [Accessories], [Preferences] and [Quit].</p>

	<u>Digital Photo Professional:</u> Supports <u>Zoom Browser EX:</u> Supports	<u>Digital Photo Professional& Zoom Browser EX:</u> Textual information is provided through operating system functions for displaying text. A screen reader can track text content, text input caret location and text attributes.
(g) Applications shall not override user selected contrast and color selections and other individual display attributes.	<u>EOS Utility:</u> Supports <u>Digital Photo Professional:</u> Supports <u>Zoom Browser EX:</u> Supports	Starting up this application does not affect main display attributes set on any operating system.
(h) When animation is displayed, the information shall be displayable in at least one non-animated presentation mode at the option of the user.	<u>EOS Utility:</u> Not Applicable <u>Digital Photo Professional:</u> Not Applicable <u>Zoom Browser EX:</u> Supports	<u>Digital Photo Professional:</u> Animation not used. <u>Zoom Browser EX:</u> Animation displayed in Zoom Browser EX when pressing the “Back”, “Forward”, or “Up” buttons on the Display Control Panel is displayable by switching the display mode to Scroll or Preview.
(i) Color-coding shall not be used as the only means of conveying information, indicating an action, prompting a response, or distinguishing a visual element.	<u>EOS Utility:</u> Not Applicable <u>Digital Photo Professional:</u> Does Not Support <u>Zoom Browser EX:</u> Supports	<u>Digital Photo Professional:</u> Color code is used as the only means to adjust color tone in the Tool Pallet. <u>Zoom Browser EX:</u> Color-coding is not used.
(j) When a product permits a user to adjust color and contrast settings, a variety of color selections capable of producing a range of contrast levels shall be provided.	<u>EOS Utility:</u> Not Applicable	

	<u>Digital Photo Professional:</u> Not Applicable <u>Zoom Browser EX:</u> Not Applicable	
(k) Software shall not use flashing or blinking text, objects, or other elements having a flash or blink frequency greater than 2 Hz and lower than 55 Hz.	<u>EOS Utility:</u> Not Applicable <u>Digital Photo Professional:</u> Not Applicable <u>Zoom Browser EX:</u> Not Applicable	
(l) When electronic forms are used, the form shall allow people using Assistive Technology to access the information, field elements, and functionality required for completion and submission of the form, including all directions and cues.	<u>EOS Utility:</u> Not Applicable <u>Digital Photo Professional:</u> Supports with exceptions <u>Zoom Browser EX:</u> Supports with exceptions	<u>Digital Photo Professional and Zoom Browser EX:</u> In many areas, a screen reader cannot access field elements, or functionality within each electronic form.

Section 1194.25 Self-Contained, Closed Products

Criteria	Supporting Features	Remarks and explanations
(a) Self contained products shall be usable by people with disabilities without requiring an end-user to attach Assistive Technology to the product. Personal headsets for private listening are not Assistive Technology.	Supports with exceptions	There are features that could be improved to increase usability for users with visual and mobility impairments. (See Remarks and Explanations in Section 1191.31.) Because some degree of user vision is assumed as a precondition in the design of a digital camera, the “fundamental alteration exception applies” for some design elements.
(b) When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.	Supports with exceptions	The time limit for auto power off can be extended in Set-up menu. However-, in many cases, a timed response is required before a setting / feature/ parameter returns to its original status, but no pre-alert is given to the users. Some users may need more time before the time out.
(c) Where a product utilizes touch screens or contact-sensitive controls, an input method shall be provided that complies with §1194.23 (k) (1) through (4).		Refer to details in subsections k-1 through k-4 below.
(1194.23k-1) Products, which have mechanically operated controls or keys, shall comply with the following: Controls and keys shall be tactilely discernible without activating the controls or keys.	Supports	All the controls/keys on the product are tactilely discernible without activating them with a force less than 30g.
(1194.23k-2) Controls and keys shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate controls and keys shall be 5 lbs. (22.2 N) maximum.	Supports with an exception	Almost all the controls and keys meet the requirement.
(1194.23k-3) If key repeat is supported, the delay before repeat shall be adjustable to at least 2 seconds. Key-repeat rate shall be adjustable to 2 seconds per character.	Does not Support	To magnify or trim an image or correct white balance, key-repeat is used with Multi-controller keys, Enlarge button, or Index/Reduce button. The delay before the key-repeat starts and the key-repeat rate are not adjustable.
(1194.23k-4) The status of all locking or toggle controls or keys shall be visually discernible, and discernible either through touch or sound.	Supports with exceptions	The status of many locking/toggle controls and keys are discernible visually and tactilely. Shutter button and Flash Button are examples of those that can be discerned through vision and sound. However, the status after selecting a menu item or function is not discernible through touch or sound in some cases (Menu button, Main dial, Multi-controller, Setting button, and etc.)
(d) When biometric forms of user identification or control are used, an alternative form of identification	Not Applicable	

or activation, which does not require the user to possess particular biological characteristics, shall also be provided.		
(e) When products provide auditory output, the audio signal shall be provided at a standard signal level through an industry standard connector that will allow for private listening. The product must provide the ability to interrupt, pause, and restart the audio at anytime.	Not Applicable	
(f) When products deliver voice output in a public area, incremental volume control shall be provided with output amplification up to a level of at least 65 dB. Where the ambient noise level of the environment is above 45 dB, a volume gain of at least 20 dB above the ambient level shall be user selectable. A function shall be provided to automatically reset the volume to the default level after every use.	Not Applicable	
(g) Color coding shall not be used as the only means of conveying information, indicating an action, prompting a response, or distinguishing a visual element.	Not Applicable	
(h) When a product permits a user to adjust color and contrast settings, a range of color selections capable of producing a variety of contrast levels shall be provided.	Not Applicable	
(i) Products shall be designed to avoid causing the screen to flicker with a frequency greater than 2 Hz and lower than 55 Hz.	Supports	All the screen flicker frequency meets the requirement.
(j) (1) Products which are freestanding, non-portable, and intended to be used in one location and which have operable controls shall comply with the following: The position of any operable control shall be determined with respect to a vertical plane, which is 48 inches in length, centered on the operable control, and at the maximum protrusion of the product within the 48 inch length on products which are freestanding, non-portable, and intended to be used in one location and which have operable controls. (j) (2) Products which are freestanding, non-portable, and intended to be used in one location and which have operable controls shall comply with the following: Where any operable control is 10 inches or less behind the reference plane, the height shall be 54 inches maximum and 15 inches minimum above	Not Applicable	

<p>the floor.</p> <p>(j)(3) Products which are freestanding, non-portable, and intended to be used in one location and which have operable controls shall comply with the following: Where any operable control is more than 10 inches and not more than 24 inches behind the reference plane, the height shall be 46 inches maximum and 15 inches minimum above the floor.</p> <p>(j)(4) Products which are freestanding, non-portable, and intended to be used in one location and which have operable controls shall comply with the following: Operable controls shall not be more than 24 inches behind the reference plane.</p>		
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Section 1194.31 Functional Performance Criteria

Criteria	Supporting Features	Remarks and explanations
(a) At least one mode of operation and information retrieval that does not require user vision shall be provided, or support for Assistive Technology used by people who are blind or visually impaired shall be provided.	Not Applicable - Fundamental Alteration Exception Applies	The purpose of this product (which is to take visual images) requires some degree of user vision. Therefore, the "Fundamental Alteration Exception" applies to this criterion.
(b) At least one mode of operation and information retrieval that does not require visual acuity greater than 20/70 shall be provided in audio and enlarged print output working together or independently, or support for Assistive Technology used by people who are visually impaired shall be provided.	Supports	Visual acuity greater than 20/70 is generally not required for use of this product.
(c) At least one mode of operation and information retrieval that does not require user hearing shall be provided, or support for Assistive Technology used by people who are deaf or hard of hearing shall be provided.	Supports	User hearing is generally not required for use of this product.
(d) Where audio information is important for the use of a product, at least one mode of operation and information retrieval shall be provided in an enhanced auditory fashion, or support for assistive hearing devices shall be provided.	Not Applicable	
(e) At least one mode of operation and information retrieval that does not require user speech shall be provided, or support for Assistive Technology used by people with disabilities shall be provided.	Supports	User speech is generally not required to operate this product.
(f) At least one mode of operation and information retrieval that does not require fine motor control or simultaneous actions and that is operable with limited reach and strength shall be provided.	Supports with exception	To perform basic shooting (power on/off, pressing shutter button, playback images, and etc.), this product is operable with limited reach and strength. However, when installing or removing battery, simultaneous action (slide the lever and open the cover) is required to open the battery cover. Users who have limited use of their upper body may experience other difficulties. (See Remarks and Explanations in Section 1194.21 (a) and (l), 1194.25 (b), (c) k-2, and (c) k-3 for more detailed information.)

Section 1194.41 Information, Documentation, and Support

Criteria	Supporting Features	Remarks and explanations
(a) Product support documentation available to end-users is available in alternate formats upon request, at no additional charge.	Supports	Product support documentation will be provided upon request in electronic format, at no additional charge.
(b) End-users have access to a description of the accessibility and compatibility features of products in alternate formats and alternate methods upon request, at no additional charge.	Supports with Exception	An evaluation of the accessibility features of products will be provided upon request in electronic format, at no additional charge.
c) Support services for products accommodate the communication needs of end-users with disabilities.	Supports	Canon U.S.A., Inc. provides support services accommodating users with disabilities through OK CANON assistance, TTY support at (866)251-3752. Canon otherwise available to U.S. federal government agencies through Federal Relay.

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