

VPAT™ for Apple MacBook Pro (2016)

The following Voluntary Product Accessibility information refers to the **Apple MacBook Pro (2016)**. For more information on the accessibility features of this product and to learn more about this product's features, visit www.apple.com/macbook-pro and www.apple.com/accessibility

VPAT™ Voluntary Product Accessibility Template Summary Table

| Criteria | Supporting Features | Remarks and Explanations |
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| Section 1194.21 Software Applications and Operating Systems | Please refer to the macOS VPAT at www.apple.com/accessibility. | MacBook Pro comes with the macOS operating system. Accessibility information for macOS is available at www.apple.com/accessibility/ . |
| Section 1194.22 Web-based Internet Information and Applications | Not Applicable | |
| Section 1194.23 Telecommunications Products | Please refer to the attached VPAT | Section 1194.23(k) and its subparts apply to the MacBook Pro. |
| Section 1194.24 Video and Multi-media Products | Not Applicable | |
| Section 1194.25 Self-Contained, Closed Products | Not Applicable | MacBook Pro is not a self-contained, closed product. |
| Section 1194.26 Desktop and Portable Computers | Please refer to the attached VPAT | |
| Section 1194.31 Functional Performance Criteria | Please refer to the attached VPAT and to the macOS VPAT at www.apple.com/accessibility. | |
| Section 1194.41 Information, Documentation and Support | Please refer to the attached VPAT | |

Section 1194.23 Telecommunications Products – Detail

| Criteria | Supporting Features | Remarks and Explanations |
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| (a) Telecommunications products or systems which provide a function allowing voice communication and which do not themselves provide a TTY functionality shall provide a standard non- acoustic connection point for TTYs. Microphones shall be capable of being turned on and off to allow the user to intermix speech with TTY use. | Not applicable | |
| (b) Telecommunications products which include voice communication functionality shall support all commonly used cross-manufacturer non- proprietary standard TTY signal protocols. | Not applicable | |
| (c) Voice mail, auto-attendant, and interactive voice response telecommunications systems shall be usable by TTY users with their TTYs. | Not applicable | |
| (d) Voice mail, messaging, auto-attendant, and interactive voice response telecommunications systems that require a response from a user within a time interval, shall give an alert when the time interval is about to run out, and shall provide sufficient time for the user to indicate more time is required. | Not applicable | |
| (e) Where provided, caller identification and similar telecommunications functions shall also be available for users of TTYs, and for users who cannot see displays. | Not applicable | |

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| <p>(f) For transmitted voice signals, telecommunications products shall provide a gain adjustable up to a minimum of 20 dB. For incremental volume control, at least one intermediate step of 12 dB of gain shall be provided.</p> | <p>Not applicable</p> | |
| <p>(g) If the telecommunications product allows a user to adjust the receive volume, a function shall be provided to automatically reset the volume to the default level after every use.</p> | <p>Not applicable</p> | |
| <p>(h) Where a telecommunications product delivers output by an audio transducer which is normally held up to the ear, a means for effective magnetic wireless coupling to hearing technologies shall be provided.</p> | <p>Not applicable</p> | |
| <p>(i) Interference to hearing technologies (including hearing aids, cochlear implants, and assistive listening devices) shall be reduced to the lowest possible level that allows a user of hearing technologies to utilize the telecommunications product.</p> | <p>Not applicable</p> | |
| <p>(j) Products that transmit or conduct information or communication, shall pass through cross-manufacturer, non-proprietary, industry- standard codes, translation protocols, formats or other information necessary to provide the information or communication in a usable format. Technologies which use encoding, signal compression, format transformation, or similar techniques shall not remove information needed for access or shall restore it upon delivery.</p> | <p>Not applicable</p> | |

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| (k) Products which have mechanically operated controls or keys, shall comply with the following: | | |
| (1) Controls and keys shall be tactilely discernible without activating the controls or keys. | Supported | Keyboard keys (F and J) have discernible nubs to assist users in Keyboard orientation. |
| (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. | Supported | Force Touch trackpad features can all be accomplished in alternate, acceptable ways. Sticky Keys, Mouse Keys and Slow Keys can be used for one hand operation. |
| (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. | Supported | Key repeat can be configured at the system level. |
| (4) The status of all locking or toggle controls or keys shall be visually discernible, and discernible either through touch or sound. | Supported with minor exceptions | <ol style="list-style-type: none"> 1. Caps Lock is the only key with a visible locking indicator on the keyboard itself: it shows a light when caps lock is on, but this is not discernible by touch. 2. When the Sticky Keys feature is turned on, the locking status of the Shift, Control, Option, and the Command keys is made visible on the screen. 3. Visual and audible indicators are adjustable via the Accessibility panel in System Preferences. 4. VoiceOver can announce when modifier keys are pressed |

Section 1194.26 Desktop and Portable Computers – Detail

| Criteria | Supporting Features | Remarks and Explanations |
|---|---------------------------------|---|
| (a) All mechanically operated controls and keys shall comply with §1194.23 (k) (1) through (4). | Supported with minor exceptions | See section 1194.23 (k) (1) through (4). |
| (b) If a product utilizes touchscreens or touch-operated controls, an input method shall be provided that complies with §1194.23 (k) (1) through (4). | Not applicable | |
| (c) When biometric forms of user identification or control are used, an alternative form of identification or activation, which does not require the user to possess particular biological characteristics, shall also be provided. | Not applicable | |
| (d) Where provided, at least one of each type of expansion slots, ports and connectors shall comply with publicly available industry standards. | Supported with minor exceptions | All expansion slots, ports, and connectors are compliant with publicly available industry standards, included, but not limited to: Thunderbolt 3 and USB-C. |

Section 1194.31 Functional Performance Criteria – Detail

| 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. | Supported with exceptions | <p>macOS includes a built-in screen reader called VoiceOver for the blind and visually impaired and includes accessible applications and utilities.</p> <p>macOS includes built-in support for over 50 USB and wireless refreshable braille displays so they start instantly when you connect them. macOS also includes support for over 30 braille tables supporting a wide range of languages.</p> <p>Information about VoiceOver is available from http://www.apple.com/accessibility/osx/voiceover/</p> |
| (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. | Supported | Visually impaired users can take advantage of Zoom, the screen magnifier built into macOS. |
| (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 | Supported | Visual alerts can be used in place of, or in conjunction with, audible alerts. |

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| <p>(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.</p> | <p>Supported</p> | <p>Volume can be controlled at the system level. External speakers can be attached if necessary for further amplification.</p> |
| <p>(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.</p> | <p>Supported</p> | <p>Speech is not required for operation or information retrieval.</p> |
| <p>(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.</p> | <p>Supported</p> | <p>Sticky Keys and Slow Keys can be used to avoid simultaneous actions.</p> <p>Additionally, Switch Control allows you to control the Mac using an adaptive device such as a switch, a joystick, the space bar on a keyboard, or a single tap on the Multi-touch trackpad.</p> <p>Operation and information retrieval are controlled via the operating system, and are documented in the macOS VPAT document at http://www.apple.com/accessibility/.</p> |

Section 1194.41 Information, Documentation and Support – Detail

| Criteria | Supporting Features | Remarks and Explanations |
|---|---------------------|--|
| (a) Product support documentation provided to end-users shall be made available in alternate formats upon request, at no additional charge | Partially supported | PDF support documentation is available at www.apple.com/support/macbookpro . |
| (b) End-users shall have access to a description of the accessibility and compatibility features of products in alternate formats or alternate methods upon request, at no additional charge. | Supported | Information about Apple access technologies is available at www.apple.com/accessibility . |
| (c) Support services for products shall accommodate the communication needs of end-users with disabilities. | Supported | E-mail support and discussion groups are available at www.apple.com/support/macbook-pro/ . |

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