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Voluntary Product Accessibility Template®

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Name of Product: 12" MDUPC Marine Display/Computer

Vender Company Name: Comark Corporation

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Section 1194.21 Software Applications and Operating Systems – Detail

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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.	Supports - Windows provides standard keyboard navigation capabilities, including control over input focus location, mnemonics and shortcuts. Provided keyboard also has a number of dedicated shortcut keys.	
(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.	Supports - Tested applications do not interfere with Microsoft Windows accessibility features, nor with the accessibility features of other tested products.	
(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.	Supports - The input focus is clearly indicated on screen and is programmatically exposed for use by assistive technology applications.	
(d) Sufficient information about a user interface element including the identity, operation and state of the element shall	Supports - Information about UI elements, including text equivalents	

be available to Assistive Technology. When an image represents a program element, the information conveyed by the image must also be available in text.	for images, is made available to assistive technology.	
(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.	Supports - Icons and other graphical components are used with consistent meanings within applications.	
(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.	Supports - Required textual information is made available through standard Windows Application Programming Interfaces (APIs).	
(g) Applications shall not override user selected contrast and color selections and other individual display attributes.	Supports - User-selected contrast and color settings and other display attributes are maintained.	
(h) When animation is displayed, the information shall be displayable in at least one non-animated presentation mode at the option of the user.	Supports - Animation is not used as the sole means for conveying important information.	
(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.	Supports - Differences in color are not relied on as the sole means of conveying visual information.	
(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.	Supports - Color and contrast can be adjusted within the operating system. A variety of pre-set options are provided that allow a range of contrast levels, including white-on-black and black-on-white. User can also customize settings.	
(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.	Supports - This product family supports a software blink rate of less than 2 Hz or greater than 55 Hz. The cursor blink rate can be adjusted to less than 2 Hz	
(l) When electronic forms are used, the	Supports - The use of	

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.	standard controls would enable suitably designed forms to be accessible, including any user instructions and cues.	
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**Section 1194.22 Web-based Internet
information and applications – Detail**

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<i>Criteria</i>	Supporting Features	Remarks and explanations
(a) A text equivalent for every non-text element shall be provided (e.g., via "alt", "longdesc", or in element content).	Not applicable	
(b) Equivalent alternatives for any multimedia presentation shall be synchronized with the presentation.	Not applicable	
(c) Web pages shall be designed so that all information conveyed with color is also available without color, for example from context or markup.	Not applicable	
(d) Documents shall be organized so they are readable without requiring an associated style sheet.	Not applicable	
(e) Redundant text links shall be provided for each active region of a server-side image map.	Not applicable	
(f) Client-side image maps shall be provided instead of server-side image maps except where the regions cannot be defined with an available geometric shape.	Not applicable	
(g) Row and column headers shall be identified for data tables.	Not applicable	

<p>(h) Markup shall be used to associate data cells and header cells for data tables that have two or more logical levels of row or column headers.</p>	<p>Not applicable</p>	
<p>(i) Frames shall be titled with text that facilitates frame identification and navigation</p>	<p>Not applicable</p>	
<p>(j) Pages shall be designed to avoid causing the screen to flicker with a frequency greater than 2 Hz and lower than 55 Hz.</p>	<p>Not applicable</p>	
<p>(k) A text-only page, with equivalent information or functionality, shall be provided to make a web site comply with the provisions of this part, when compliance cannot be accomplished in any other way. The content of the text-only page shall be updated whenever the primary page changes.</p>	<p>Not applicable</p>	
<p>(l) When pages utilize scripting languages to display content, or to create interface elements, the information provided by the script shall be identified with functional text that can be read by Assistive Technology.</p>	<p>Not applicable</p>	
<p>(m) When a web page requires that an applet, plug-in or other application be present on the client system to interpret page content, the page must provide a link to a plug-in or applet that complies with §1194.21(a) through (l).</p>	<p>Not applicable</p>	
<p>(n) When electronic forms are designed to be completed on-line, 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.</p>	<p>Not applicable</p>	
<p>(o) A method shall be provided that permits users to skip repetitive navigation links.</p>	<p>Not applicable</p>	
<p>(p) When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.</p>	<p>Not applicable</p>	

Note to 1194.22: The Board interprets paragraphs (a) through (k) of this section as consistent with the following priority 1 Checkpoints of the Web Content Accessibility Guidelines 1.0 (WCAG 1.0) (May 5 1999) published by the Web Accessibility Initiative of the World Wide Web Consortium: Paragraph (a) - 1.1, (b) - 1.4, (c) - 2.1, (d) - 6.1, (e) - 1.2, (f) - 9.1, (g) - 5.1, (h) - 5.2, (i) - 12.1, (j) - 7.1, (k) - 11.4.

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Section 1194.23 Telecommunications Products

– Detail

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Criteria	Supporting Features	Remarks and explanations
(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 – Not a Telecommunications Product or System	
(b) Telecommunications products which include voice communication functionality shall support all commonly used cross-manufacturer non-proprietary standard TTY signal protocols.	Not applicable – Not a Telecommunications Product or System	
(c) Voice mail, auto-attendant, and interactive voice response telecommunications systems shall be usable by TTY users with their TTYs.	Not applicable – Not a Telecommunications Product or System	
(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	Not applicable – Not a Telecommunications Product or System	

when the time interval is about to run out, and shall provide sufficient time for the user to indicate more time is required.		
(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 – Not a Telecommunications Product or System	
(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.	Not applicable – Not a Telecommunications Product or System	
(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.	Not applicable – Not a Telecommunications Product or System	
(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.	Not applicable – Not a Telecommunications Product or System	
(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.	Not applicable – Not a Telecommunications Product or System	
(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.	Not applicable – Not a Telecommunications Product or System	
(k)(1) Products which have	Not applicable – Not a	

mechanically operated controls or keys shall comply with the following: Controls and Keys shall be tactilely discernible without activating the controls or keys.	Telecommunications Product or System	
(k)(2) Products which have mechanically operated controls or keys shall comply with the following: Controls and Keys shall be operable with one hand and shall not require tight grasping, pinching, twisting of the wrist. The force required to activate controls and keys shall be 5 lbs. (22.2N) maximum.	Not applicable – Not a Telecommunications Product or System	
(k)(3) Products which have mechanically operated controls or keys shall comply with the following: 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.	Not applicable – Not a Telecommunications Product or System	
(k)(4) Products which have mechanically operated controls or keys shall comply with the following: The status of all locking or toggle controls or keys shall be visually discernible, and discernible either through touch or sound.	Not applicable – Not a Telecommunications Product or System	

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Section 1194.24 Video and Multi-media

Products – Detail

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Criteria	Supporting Features	Remarks and explanations
a) All analog television displays 13 inches and larger, and computer	Not applicable – Does not have analog television receiver or display circuitry.	

<p>equipment that includes analog television receiver or display circuitry, shall be equipped with caption decoder circuitry which appropriately receives, decodes, and displays closed captions from broadcast, cable, videotape, and DVD signals. As soon as practicable, but not later than July 1, 2002, widescreen digital television (DTV) displays measuring at least 7.8 inches vertically, DTV sets with conventional displays measuring at least 13 inches vertically, and stand-alone DTV tuners, whether or not they are marketed with display screens, and computer equipment that includes DTV receiver or display circuitry, shall be equipped with caption decoder circuitry which appropriately receives, decodes, and displays closed captions from broadcast, cable, videotape, and DVD signals.</p>		
<p>(b) Television tuners, including tuner cards for use in computers, shall be equipped with secondary audio program playback circuitry.</p>	<p>Not applicable – Does not have tuner capabilities.</p>	
<p>(c) All training and informational video and multimedia productions which support the agency's mission, regardless of format, that contain speech or other audio information necessary for the comprehension of the content, shall be open or</p>	<p>Not applicable – Contains no user required multimedia presentations. However, product supports open and closed captioned material.</p>	

closed captioned.		
(d) All training and informational video and multimedia productions which support the agency's mission, regardless of format, that contain visual information necessary for the comprehension of the content, shall be audio described.	Not applicable – Contains no user required multimedia presentations. However, product allows audio support of video presentations.	
(e) Display or presentation of alternate text presentation or audio descriptions shall be user-selectable unless permanent.	Not applicable – Contains no user required multimedia presentations. However, product allows user selection unless permanent.	

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Section 1194.25 Self-Contained, Closed Products – Detail

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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.	Not applicable – Not a self-contained, closed product (See Note)	Note: If this product will be used as part of a self-contained or closed product, please contact Comark for additional information.
(b) When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.	Not applicable – Not a self-contained, closed product (See Note)	Note: If this product will be used as part of a self-contained or closed product, please contact Comark for additional information.

<p>(c) Where a product utilizes touchscreens or contact-sensitive controls, an input method shall be provided that complies with §1194.23 (k) (1) through (4).</p>	<p>Not applicable – Not a self-contained, closed product (See Note)</p>	<p>Note: If this product will be used as part of a self-contained or closed product, please contact Comark for additional information.</p>
<p>(d) 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.</p>	<p>Supports - Product does not use biometric forms of user identification or control.</p>	
<p>(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.</p>	<p>Not applicable – Not a self-contained, closed product (See Note)</p>	<p>Note: If this product will be used as part of a self-contained or closed product, please contact Comark for additional information.</p>
<p>(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.</p>	<p>Not applicable – Not a self-contained, closed product (See Note)</p>	<p>Note: If this product will be used as part of a self-contained or closed product, please contact Comark for additional information.</p>
<p>(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.</p>	<p>Not applicable – Not a self-contained, closed product (See Note)</p>	<p>Note: If this product will be used as part of a self-contained or closed product, please contact Comark for additional information.</p>

<p>(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.</p>	<p>Not applicable – Not a self-contained, closed product (See Note)</p>	<p>Note: If this product will be used as part of a self-contained or closed product, please contact Comark for additional information.</p>
<p>(i) Products shall be designed to avoid causing the screen to flicker with a frequency greater than 2 Hz and lower than 55 Hz.</p>	<p>Not applicable – Not a self-contained, closed product (See Note)</p>	<p>Note: If this product will be used as part of a self-contained or closed product, please contact Comark for additional information.</p>
<p>(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.</p>	<p>Not applicable – Not a self-contained, closed product (See Note)</p>	<p>Note: If this product will be used as part of a self-contained or closed product, please contact Comark for additional information.</p>
<p>(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 the floor.</p>	<p>Not applicable – Not a self-contained, closed product (See Note)</p>	<p>Note: If this product will be used as part of a self-contained or closed product, please contact Comark for additional information.</p>
<p>(j)(3) Products which are freestanding, non-portable,</p>	<p>Not applicable – Not a self-contained, closed</p>	<p>Note: If this product will be used as part of a self-</p>

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.	product (See Note)	contained or closed product, please contact Comark for additional information.
(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.	Not applicable – Not a self-contained, closed product (See Note)	Note: If this product will be used as part of a self-contained or closed product, please contact Comark for additional information.

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Section 1194.26 Desktop and Portable Computers – Detail

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Criteria	Supporting Features	Remarks and explanations
(a) All mechanically operated controls and keys shall comply with §1194.23 (k) (1) through (4).	Supports - Please refer to 1194.23 (k1 thru k4).	
(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).	Supports - Product can be used with keyboard.	Consult Factory for more information.

(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.	Supports - Product does not use biometric forms of user identification or control.	
(d) Where provided, at least one of each type of expansion slots, ports and connectors shall comply with publicly available industry standards	Supports - All expansion slots, interface ports and connectors are industry standard. (Front-access USB, Firewire, and audio connectors are provided.)	

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Section 1194.31 Functional Performance

Criteria – Detail

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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.	Supports - This product supports the use of assistive technology such as screen readers for access by people who are blind or visually impaired. (Tested with JAWS for Windows version 6.20.) (See Note)	Note: Use of screen readers would be subject to the same issues affecting input focus (see 1194.21c).
(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	Supports - This product supports the use of assistive technology such as screen readers and screen magnifiers for access by people who are visually impaired. Additionally, on-screen font	

<p>independently, or support for Assistive Technology used by people who are visually impaired shall be provided.</p>	<p>sizes, contrast and display resolution can all be adjusted to support users with low vision. (Tested with JAWS for Windows version 6.20.)</p>	
<p>(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</p>	<p>Supports - User hearing is not required to use this product. However, the Accessibility Options “SoundSentry” and “ShowSounds” do provide for visual alternatives to system-generated sounds and audible warnings.</p>	
<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>Supports - Audio information is not needed for the use of this product. However, a sound volume control is provided, and the use of assistive hearing devices is supported.</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>Supports - User speech is not required to use this product.</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>Supports - This product supports the use of alternative input devices. Additionally, settings are provided to accommodate a lack of fine motor control, and to avoid the need for simultaneous actions. All force requirements in 1194.26(a) are met.</p>	

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**Section 1194.41 Information, Documentation
and Support – Detail**

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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	Supports – Product support documentation describing normal operation is available in softcopy to be used by screen readers, or to be printed by Braille embossers.	
(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.	Supports.	Consult Factory for more information.
(c) Support services for products shall accommodate the communication needs of end-users with disabilities.	Supports.	Consult Factory for more information.

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