

Subpart 1194.25 Self-Contained, Closed Products The following features are derived from Section 508	
sufficient time for him to indicate that he needs additional	radio lock, which has a user programmable
time to respond [ N/A ]	time limit. The remainder of functions are not
	time limited because activities are recreate-
	able and recoverable.
For touch screen or contact-sensitive control input provide:	Keys can be discerned without activation.
1. Controls / keys tactilely discernable without activating [ N/A ]	
2. Controls / keys operable with one hand [X]	Yes
3. Controls / keys that don't require tight grasping, pinching or	PTT, volume, and channel selection require
twisting of the wrist [X]	moderate pressure to avoid inadvertent
	button/switch activation. This is by design for
	environmental aspects of use.
4. Maximum force required to activate controls / keys is 5 lbs	Yes
(22.2N) [X]	
5. If key repeat supported, delay key repeat at least 2 seconds [X]	Programmable timelonger and shorter
6. Key repeat adjustable to 2 seconds per character [ X ]	Programmable timelonger and shorter
7. Locking toggle controls / keys status – visually discernable,	YesKeypad and radio lock
and discernable through touch or sound [X]	
Provide an alternative form of identification / activation that	Yes
doesn't require the user to possess particular biological	
characteristics [X]	
Products that provide audio output shall:	Yes
<ol> <li>Provide audio signal at a standard signal level through an industry standard connector allowing private listening [X]</li> </ol>	
2. Provide ability to interrupt, pause, and restart the audio at	Audio will be lost, but connection can always
anytime [X]	be re-established.
For products that deliver voice output in a public area:	Yes
1. Incremental volume control shall be provided with output	
amplification up to a level of at least 65 dB [ X ]	
2. Where ambient noise of the environment is above 45 dB,	Yes via knob selection, or support for special
volume gain of at least 20 dB above the ambient level shall be	headgear to allow for this feature.
user selectable [X]	
3. A function shall automatically reset the volume to the default	No Need
level after every use [ ]	
	This functionality is not required due to the fact
	that the power/volume switch is designed such
	that the user controls the volume level at time
	of power up.
Color coding shall not be used as the only means of	Color LED use is indifferent to color actually
conveying information, indicating an action, prompting a	shown. The lit LED means users actions are
response, or distinguishing a visual element [X]	occurring.
User adjustable color and contrast settings – shall provide a range of color selections and variety of contrast lovels $[N/A]$	No Contrast settingcontrast is pre-tested and
range of color selections and variety of contrast levels [N/A]	optimized for user environment. Certain items do not meet thissecure
Reduce / eliminate screen flicker or image flashing.	enunciator, priority scan enunciator, and low
Recommended ranges: 2 Hz or lower or 55 Hz or higher [ ]	I CHUNCIALUI, DHUNLY SCAN CHUNCIALUI, AND IOW



For products that are freestanding, non-portable and intended for use in one location with operable controls: 1. 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 a maximum protrusion of the product within the 48 inch length [ N/A ]	N/A
2. 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 [ N/A ]	N/A
3. Where any operable control is more than 10 inches and not more than 24 inches behind the reference plane, the height shall be 46 in. maximum and 15 in. minimum above the floor [ N/A ]	N/A
4. Operable controls shall not be more than 24 inches behind the reference plane [ N/A ]	N/A
For any of the above feature requirements, are there alternative technologies / features that would result in substantially equivalent or greater access to and use of the product for people with disabilities? 1a. Identify required feature above	N/A
1b. Equivalent alternative	N/A
2a. Identify required feature above	N/A
2b. Equivalent alternative	N/A
3a. Identify required feature above	
	N/A



#### Rehabilitation Act Amendments of 1998, Section 508 Subpart 1194.23 Telecommunications Products The following features are derived from Section 508 **COMMENTS** Standard non-acoustic connection point for TTYs (2.5mm No...TTY not a valid choice for portable device nor is it adoptable for user environment. iack) [] Adjustable on/off microphone to allow intermix of speech No...TTY not a valid choice for portable device and TTY use [] nor is it adoptable for user environment. No...TTY not a valid choice for portable device Supports commonly used cross-manufacturer nonproprietary standard TTY signal protocols [ ] nor is it adoptable for user environment. Voice mail, messaging, auto attendant, interactive voice No...TTY not a valid choice for portable device response systems shall be usable by TTYs [ ] nor is it adoptable for user environment. Voice mail, messaging, auto-attendant, interactive voice Does not have time-out function response systems that require response time from user shall give alert that time is about to run out, will allow for extension of time [ N/A ] Caller I.D. (and similar functions) shall function with TTYs[ ] No...TTY not a valid choice for portable device nor is it adoptable for user environment. Caller I.D. (and similar functions) shall function for people No...this is based upon a pre-defined user list. who cannot see [ ] For voice signals - adjustable volume control gain of up to Yes a minimum of 20 dB [ X ] For voice signals - incremental volume control shall have at Yes least one intermediate step of 12 dB gain [X] If product allows user to adjust the "receive" volume - there No, volume always matches volume knob. will be an automatic volume reset to the default level after each use [] Audio transducer normally held up to the ear - provide a This is not valid choice for adoption in user means for effective wireless coupling for hearing environment. The radio operates like a technologies [N/A] speakerphone. Interference to hearing aids, cochlear implants and This is not valid choice for adoption in user environment. The radio operates like a assistive listening systems will be reduced to the lowest possible level to allow usability [ N/A ] speakerphone. Pass through cross-manufacturer, non-proprietary, Yes, APCO Standards. industry-standard codes, translation protocols, formats or other information necessary to provide usable format [X] Controls / keys tactilely discernable without activating [X] Yes Controls / keys operable with one hand [X] Yes Controls / keys shall not require tight grasping, pinching, or PTT, volume, and channel selection require twisting of wrist [X] moderate pressure to avoid inadvertent button/switch activation. This is by design for environmental aspects of use. Force required to activate controls / keys is 5 lbs (22.2N) Yes maximum [X] If key repeat supported - delay before key repeat shall be Yes. Programmable response time at least 2 seconds [X] Key repeat rate adjustable to 2 seconds per character [X] Adjusted in software from 1/4 sec to 6 1/4 sec.



Locking toggle controls / keys – visually discernable and discernable either through touch or sound [ X ]	Yes. Keypad and radio lock are visually and sound discernable.
For any of the above feature requirements, are there alternative technologies / features that would result in substantially equivalent or greater access to and use of the product for people with disabilities? 1a. Identify required feature above	Use of short messaging instead of TTY on radios that have keypads.
1b. Equivalent alternative	Short Text Messaging in future
2a. Identify required feature above	Structure and location of physical controls
2b. Equivalent alternative	Console use for statically located personal
3a. Identify required feature above	
3b. Equivalent alternative	

Rehabilitation Act Amendments of 1998, Section 508 Subpart 1194.31 Functional Performance Criteria		
The following features are derived from Section 508 COMMENTS		
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. [X]	Yes. Consistent control design and audio response allows for non-visual support. Model I is example. Information LEDs can be user disabled because of this feature.	
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. [X]	Yes. Consistent control design and audio response allows for non-visual support. Model I is example. Information LEDs can be user disabled because of this feature.	
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. [X]	Yes. Consistent visual responses allows for non-hearing support. Tones are capable of being disabled because of this feature. Audio functionality, though, is the main purpose of this device.	
Where audio information is important for the use of the 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. [X]	Temple Transducer allows for enhanced auditory behavior.	
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. [ ]	NoAudio support is basis of product. Removal of audio functionality will severely limit the use of the product.	
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. [X]	Surveillance microphone accessories for limited reach or strength.	



Additional Disability Access Features For Consideration	
	COMMENTS
Hearing	leave for simpleting with and better deviation
Visual alert for "power on" and "power off", low	Icons for signal strength and battery level on
battery, no service, volume [X]	Model II and III.
Numbers dislad displayed on someon [V]	Volume knob location for power and audio levels
Numbers dialed displayed on screen [X]	Yes for Model II and III.
Accessories [X]	Temple Transducer, Surveillance microphone, pit crew headphones for loud environments.
Other Visual Alerts [ X ]	Visual alerts for all radio status events
Speech	
2-way text messaging [X]	Available in future
Cognition	
Use consistent colors / shapes for specific function	Yes
keys [ X ]	
Group similar functions together [X]	Yes
Provide moving text in at least one static mode at	Model II or Model III
option of user [X]	
Eliminate time dependent responses [X]	Any time response scenarios are able to be re-
	established
Provide prompts / cues to assist with complex	Limited multiple step operations. Button
series of steps [ X ]	shortcuts are available via customer
	configuration.
Use of standardized icons [ X ]	Standardized between all radio products and
	Motorola PCS products.
User adjusted scroll speed [ X ]	Button hold adjusts scroll speed
Vision	
Easy tactile differentiation between keys and main	Yes. Nubs on side buttons and standard
surface of product (keys matte non-slip, keys raised	ergonomics.
off surface of product) [X]	
Easy tactile differentiation of function keys (tactile or	Yes
shape differentiation, standardized Motorola key	
location) [X]	Vaa
Tactile orientation on plug that is not self oriented	Yes
[X] Racklit kovpad [ X ]	Yes
Backlit keypad [ X ] Backlit display [ X ]	Yes
Minimize glare – display and control surfaces [X]	Yes
High contrast display – brightness contrast between	Nominal contrast is 4:1
6:1 and 15:1 [ ]	
Use of symbols / icons may be easier to read than	Yes
fine print [X]	
Different audio indication for "power on" and "power	Yes. When the radio is turned on you hear the
off" [X]	popple click and tone. When you turn the radio
	off, you hear the popple click.
Different audio tones emitted for function keys	Depending on the function, keypad is invalid and



compared to number keys [ X ]	user hears invalid tone, while valid buttons give
	valid tone.
Audible low battery warning [X]	Yes. There are user editable thresholds for the
	Smart Battery.
Volume control - audible indicator [X]	Volume feature makes a constant tone so that
	the volume level can be set via knob turn.
Key activation to require distinct depression / tactile feedback [X]	Use of poppels for tactile feel.
If information is conveyed via color differentiation	Color is associated with the user-selected
include one other mode [X]	function. Light emitting diodes merely represent
	user activation of the featurescan list edit or
	transmit receive, low battery, etc
Auditory feedback from keys ("click, voice mode	Yes
that announces keys when pressed) [ X ]	
Manual Dexterity, Reach, Strength	
Shape of device – easy to hold [ X ]	Designed for customer grip and most used
	button (PTT) easiest to reach.
If two keys (keyboard products) must be depressed	This situation does not exist in standard radio
simultaneously, provide option to allow them to be	operationsexcept to place the radio in test
activated sequentially [ ]	mode (depot process only)
Make all actions reversible or request confirmation [X]	All reversible except transmission of audio via
	PTT, which is the intended use of device.
Controls / keys with non-slip surfaces [ X ]	Textured surfaces
Easy "in" / "out" battery [X]	Button activation
Non-slip grips on sides of device [ X ]	Textured surfaces
Photosensitive Epilepsy	
Reduce / eliminate screen flicker or image flashing.	Certain items do not meet thissecure enunciator,
Recommended ranges of 2 Hz or lower or 55 Hz or higher [ ]	priority scan enunciator, and low battery indicator.

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