

Vuzix Blade® Dev Kit User Experience (UX) Design Guidelines

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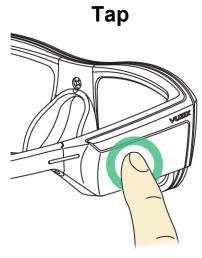
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UX Philosophy & Principles

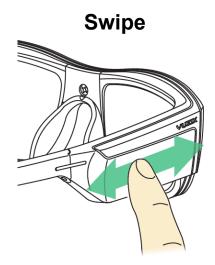
The overall user experience (UX) design philosophy for the BladeOS was to keep the user interaction simple. Voice interaction allows for hands free actions and the touch pad enables quick touch interaction. The touchpad only requires two types of interactions:

Tap and Swipe



Tap will:

- Turn on the display.
- Opens an App or performs an Action



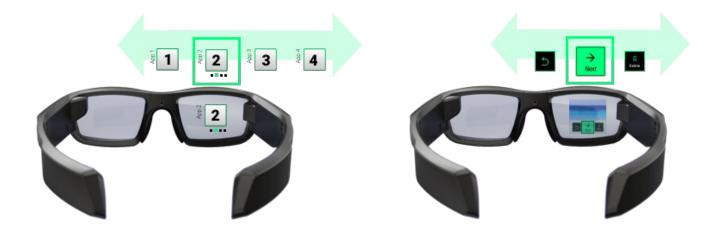
Swipe – is the primary method of Navigation. Swipe will navigate:

- Apps
- Actions
- Photos/Videos

This simple "tap and swipe" UX philosophy drives a consistent easy to learn and use method for the Blade.

Center Focus

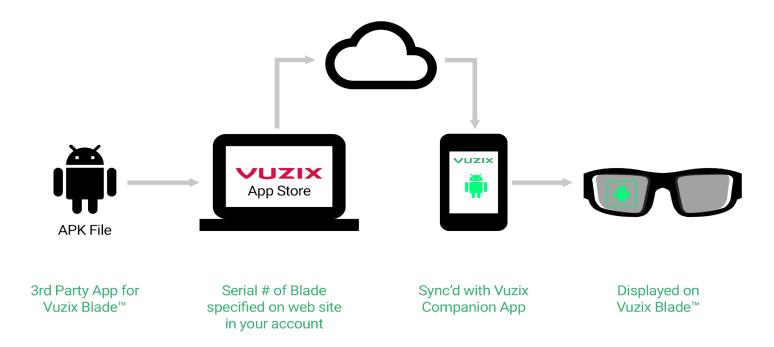
The UI Design is based on keeping one item in focus and moving items/actions/lists into that center focus area as the user swipes. For example, when navigating your Apps, the BladeOS displays one App in focus. When navigating your Actions, the BladeOS displays the currently highlighted Action in focus. This interaction is the key to the simplicity of the user interface; users DO NOT MOVE FOCUS from object to object they move objects INTO THE CENTER FOCUS AREA.



App UI Architecture

The Blade utilizes a customized version of an Android OS(BladeOS) that utilizes the Android API to allow apps to be devloped and deployed to it.

The BladeOS enables 3rd party developers to easily add Apps to the Blade glasses. The diagram below shows the basic method for getting an App onto your Vuzix BladeTM.



Software developers can add their Blade App to the Vuzix App Store, which will make it available to all Blade users.

The Vuzix Companion App continuously syncs with the Vuzix App Store, allowing a user to search, view and install a Blade apps onto their Blade. The BladeOS then displays these apps on the Vuzix Blade™.

Hardware Interactions

Button (Power)



Overview

The Blade has one physical button (1), a power button. This button can be used to power ON and power OFF the Blade.

Power NOTE: To save battery life, only turn on the display when needed.

Behavior

Pressing the Power button will power ON the Blade. A quick press and release of the Power button will turn the display ON or OFF depending on the current state. A "Press and Hold" will display a Power Off Confirmation Action Bar allowing the user to power OFF the Blade. A Press and Hold for 5-6 seconds will automatically Power OFF the Blade without displaying the confirmation.

LED





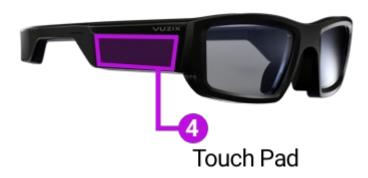
Overview

The Blade has 2 LEDs (2 & 3). The green Power LED (2) is the visual indicator the Blade's power state. The red Recording LED (3) is the visual indicator that the camera app is being accessed or a video is being recorded by the Blade.

- 1. Power LED (Green) indicates POWER status of the Blade glasses.
 - a. While Charging
 - i. Slow Blink Power < 90%
 - ii. Off Power \geq 90%
 - b. Booting
 - i. On
 - c. Powered on
 - i. Fast Blink Power < 15%
 - ii. Off Power \geq 15%

- 2. Camera Access LED (Red) indicates Camera is active (Preview, Stream, Video Recording, Picture Taking) on the Blade.
 - a. LED ON Blade glasses are accessing the camera features.
 - b. LED OFF Blade glasses are NOT accessing the camera.

Touchpad

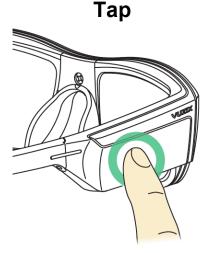


Overview

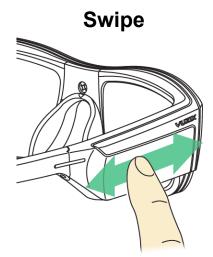
The touchpad allows for interaction with the Blade. Taps and Swipes are the primary gestures required to interact with the Blade glasses. Additional touchpad <u>gestures</u> are supported as shortcuts for common interactions.

Behavior

There are two primary interactions:



- Tap will:
 - a. Turn on the display.
 - b. Opens an App or performs an Action

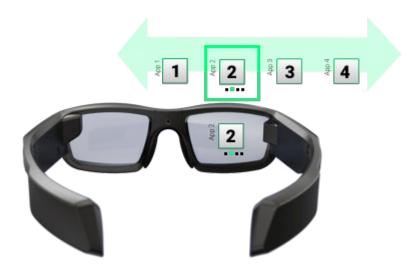


Swipe – is the primary method of Navigation. Swipe will navigate:

- c. Apps
- d. Actions
- e. Photos/Videos

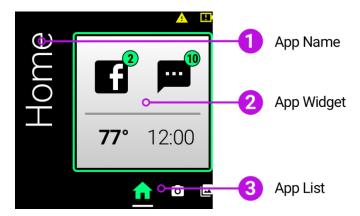
UI Interaction Elements

Apps



Overview

The BladeOS displays a list of apps horizontally allowing users to view different product features. Additional apps can be added through the Vuzix Companion App and the Vuzix App Store. The BladeOS is designed to display one app at a time and users can view additional apps by swiping the touchpad or using voice commands. A list of apps is displayed across the bottom of the display (as mini-icons) to inform the user where they are within the overall list of apps. The app object (as shown below) is made up of several UI elements:



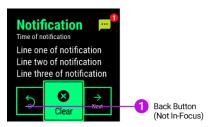
- 1. App Name (Vertical right aligned)
- 2. App Widget Square space allowing an App to display its key features, status or an icon
- 3. List of Apps (bottom) These mini-icons displayed in a horizontal list at the bottom of the UI with the current App slightly larger and highlighted.

To maintain the BladeOS philosophy of simplicity, only offer "required" UI elements in the Blade app and move more complicated interactions and features to the associated mobile app settings screen in the Vuzix Companion Mobile App. For example, transferring photos and videos can overcomplicate the user experience on the Blade glasses; those features are placed in the Photos screen in the Vuzix Mobile Companion App. The media transfer feature does not appear anywhere in the BladeOS and helps simplify the overall presentation and interactions for users. When a feature borders the edge of the screen you should consider reducing the margin as to minimize its impact on the field of view. There is likely padding on most of your elements by default and removing or reducing it when it borders the edge of the screen will create a more functional viewing experience.

Behavior

Apps are displayed in a horizontal list when the display turns on. Users can navigate each app by swiping the touchpad forward or backward or using <u>voice commands</u>.

Action Bar







Notification - Action Bar

Camera App - Action Bar

Photo App - Action Bar

Overview

The action bar displays a horizontal list of buttons shown at the bottom of the display. The UI architecture has a "center-focus" user interface providing the user feedback as to what action will be taken if the touchpad single tap or voice command is spoken. Actions move into the center focus UI region when the user swipes the touchpad. When designing your app, be sure to ALWAYS make the left most action the "Back" action. This will allow the user to navigate to the previous screen (up 1 level) * in a consistent way throughout the interface.

* Back is not required if there are only 2 actions where one of those actions will take the user up 1 level. For example, in the Photo App - Delete Picture UI, the Cancel also performs the Back function. The user can also go back by using a gesture (2 finger tap).

Behavior

The user can display the Action bar by tapping the touchpad once. The user can navigate through the various actions by swiping the touchpad or giving a voice command. The primary action has center focus so when the user "taps" on the touchpad, the action (in focus) is performed.

Warning Bar



Overview

The warning/information bar is displayed across the top portion of the UI. The warning/information bar is reserved to display information to the user that something is wrong (i.e., low storage) or to give the current status of the system (i.e., battery percentage, compass).

Notifications



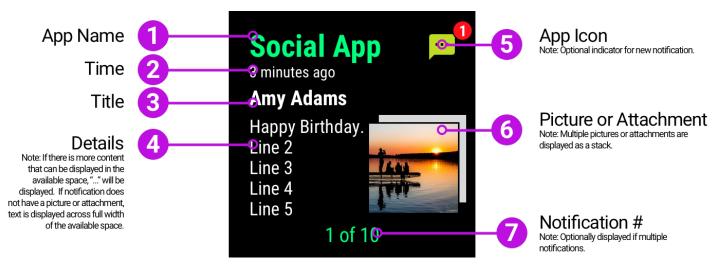
Message App Notification Full screen



Message App Notification Banner

Overview

To keep users informed, smartphones utilize notifications to display information.



A full screen notification (as shown above) has several key UI Elements:

- 1. App name Name of the app that sent the notification.
- 2. Time When that notification was received.
- 3. Title Name of the person who sent the notification.
- 4. Details Textual information within the notification.
- 5. App Icon Visual representation of the App that sent the notification and optional indicator if a new notification.
- 6. Picture/Attachment Visual preview of any pictures, videos or attachments. If there are multiple pictures/attachments, display them as a "stack".
- 7. Notification # Current notification number in relation to the total number of notifications.

Behavior

Notifications are collected in the "Home" App and are displayed one at a time. The most recent notifications are displayed first and the user can swipe forward (back to front – displaying the next notification using a push left animation). A simple swipe (front-to-back or back-to-front) allows the user to easily navigate to each notification.

A shortcut gesture (two-finger swipe forward) will clear the currently displayed notification and display the next notification in line. Users can "Clear All" notifications by the shortcut gesture (two-finger swipe backward) on any notification.

If the notification enables the user to reply, a "Reply" action button will be displayed allowing the user to respond to the notification. Some notifications may appear with an Action bar displayed allowing the user to quickly take action.

Lists





Overview

A List UI control is used to display a set of choices, for example, a list of "Settings" or a list of "Contacts." The "center focus" UI interaction is used for lists and is consistent with the overall interaction style of the BladeOS. Selecting the list item in the center focus area will be open that item. Additional information about that list item can optionally be displayed below.

Behavior

Swiping back and forward navigates the list of choices. Tapping or issuing a voice command will select that choice.

Sliders





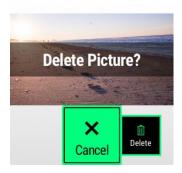
Overview

The Slider UI element allows the user to select from a range of fixed values. The slider should be displayed in a horizontal manner to support the natural "swiping" (forward and backward) of the touchpad. Sliders can either be shown having discrete values (small range of values, around 10 or fewer) or a continuous slider (when the range is large).

Behavior

Swiping (forward and backward) automatically changes the value. The UI interaction of swiping forward increases the selected value (i.e., 5 to 6 to 7 to ...10). Tapping on the touchpad ("Back Action button in focus") or issuing a voice command (Save or Back) will save the current setting value and go back up one level.

Confirmation



Overview

Confirmation UI's allow the user to confirm an action. An action bar is displayed with two choices (i.e., Cancel and Delete). If a destructive action (i.e., Delete picture) is performed, the confirmation UI default action should be defaulted to the Cancel action and not Delete. This presentation helps avoid accidental deletion (negative consequences) for your end users.

Status



Overview

Displaying an apps status is done within the App's widget or within the app itself. For example, the Home widget displays the fact that the Blade has received notifications. Within the Camera app, a strip above the action menu is used to indicate the Blade is recording video (red circle and REC).

Visual Design

Animation

Animations on the Blade should be primarily used to help the user navigate your app. Animated screen transitions (like navigating between Widgets on the App Rail or presenting a notification) help the user understand the structure of the interface.

Be sure to keep animations extremely brief and very simple. Unlike smartphones, the Blade experience is meant to be "glance-able" and unobtrusive, keeping the user informed in the quickest way.

App Animations should have a specific purpose, like drawing attention to a single piece of information; adding complex animations because they look cool will simply clutter your app and frustrate your users. Subtle, delightful animations that enhance the user experience can help you make the most of the limited screen space and help users focus on what's important.

Color

Color is a critical component of making apps usable on the BladeOS. High contrast and saturated colors will work best for the Blade's transparent display system.

The primary colors chosen for the BladeOS are MINT GREEN and WHITE. These colors were specifically chosen because they are easy to see against variable backgrounds and transparency of the Vuzix™ Blade screen. Other colors like yellow and red are also core colors but should be reserved for alerts, warnings and new notifications. While this may seem like a limited core color pallet, these colors work great to maximize the readability, legibility and overall customer experience with the Blade smart glasses system.

Core Color Pallet

Opacity 100%
R 0
G 255
B 125
Hex 00FF7D

Opacity 100% R 255 G 255 B 255 Hex FFFFF Opacity 100% R 242 G 241 B 0 Hex F2F100 Opacity 100% R 242 G 27 B 0 Hex FC101B

While this is the core OS color pallet, you can certainly use other colors including your brand colors to distinguish it from other apps. Be sure to choose your colors carefully, ESPECIALLY when displaying text. Since the Blade display is transparent, colors will "shift" and change when displayed in different environments and lighting conditions. What looks great inside a dimly lit office with solid gray walls will look completely different outdoors on a sunny, cloud-free day with trees and cars in the background.

Your customers will be using your app in many different environments and may be in motion (walking, jogging, etc.); be sure to test your design in many different situations including the outdoors to ensure your designs are useable and text is readable.

Color Considerations

Be aware of color-blind users and how different people perceive color. Be sure to choose an effective pallet that clearly presents your apps information. Do not ONLY rely on color to communicate a message. Supplement your app with graphics, and labels to clearly communicate status, state, and actions.

The key consideration when choosing color is the environment your app will be used. For example, if your app is going to be used primarily in sunny conditions (like a sailing app), you will want to optimize your color pallet for bright conditions.

Blade provides two standard themes that are optimized for outdoor and indoor lighting conditions. When designing your app, you can define appropriate colors and backgrounds that will help your users interact with your app and these themes. See THEMES section for details.

Typography

The BladeOS uses Google's open source fonts Roboto and Roboto Condensed.

https://fonts.google.com/specimen/Roboto

https://fonts.google.com/specimen/Roboto+Condensed

The Roboto family offers a wide variety of weights and styles that are not only easy to read but accessible to everyone.

Roboto Regular Roboto Medium Roboto Bold Roboto Black

Roboto Thin

Roboto Condensed Regular Roboto Condensed Light **Roboto Condensed Bold**

Good typography is way more than just picking the right font. While Roboto is designed to be an easy to read sans-serif typeface, apply good design principals to your typography to ensure the best app experience for your customers.

Size your type to be readable.

Customers will be using your app while on the go and large type is *generally* easier to read than small (light) letterforms.

Use "notification style" type where users need to read several lines of text. We recommend no smaller than a 40 px text size for this situation. Roboto Condensed can be used to maximize the number of words you can fit on the screen while maintaining readability.

Notification
Time of notification
Line one of notification
Line two of notification
Line three of notification
Line four of notification
Line five of notification
Line six of notification

boto Condensed Bold 60 px

The absolute minimum type size recommended anywhere in your app is 25 px (Roboto Condensed 25 px is used for non-focused action bar buttons in the BladeOS as a reference.) While still legible, using this size for large quantities of text would definitely not be recommended.



Adding too many type styles and sizes to your layouts will make your app look complex. Limit the number of type style and sizes and focus your designs on the key piece of information that is most important to your user. In the directions app example below the primary focus is on the directional icon. The distance to travel in that direction is next in importance. Both pieces of information share a common color and are juxtaposed so the user can quickly understand the message. The detailed text and units (miles) are supplementary and share the same typeface and size.



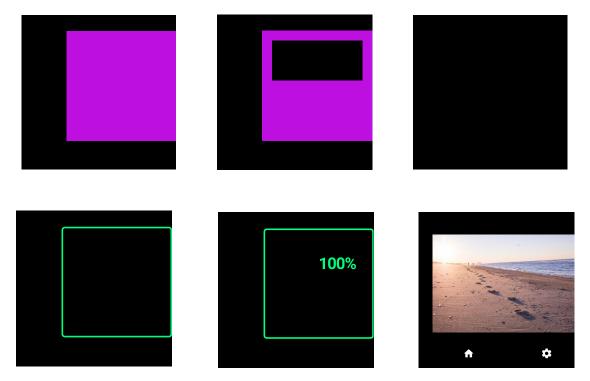
Avoid using thin weight fonts like Roboto Thin and Roboto Condensed Light at small sizes. A good example of using Roboto Thin is the title of widgets. The Photos widget below uses Roboto Light and is 90px in size, making it easy to read.



Layouts

Blade Apps are launched from a widget screen on the "Rail."

The widget functions as a summary for the purpose or status of your App. The user, at a glance, should be able to clearly understand the function and status of your App. We recommend the following layouts as a good starting point for building your app's widget screen.



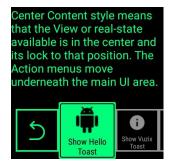
Consistent layouts with ample spacing around your critical information will help make your app easy to read and understand for your customers.

Avoid displaying too much information on the screen at one time. Design your app layouts and information to be glanced at. Reserve buttons and actions to action bars that can be called up with a simple tap. The screen space within your app is limited to 480 x 480 pixels so be sure to use most of your screen space while keeping your app uncluttered and your user informed.

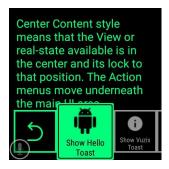




When you do need to add elements to your screen space be sure to remove as much padding on the edge of the screen as possible to keep the margin small. This is just another way to make the most of your screen space.



No padding



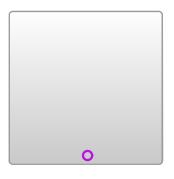
3mm Padding

Themes – Light & Dark

The BladeOS has two color themes: Light and Dark.

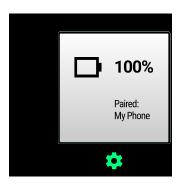
LIGHT THEME (Outdoor use)

LIGHT is designed specifically for seeing your Blade display clearly in bright conditions. This mode uses an opaque white to gray linear gradient at a 90° angle from top to bottom.



acity 100% R 200 G 200 B 200 Hex C8C8C8

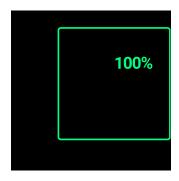
This gradient is used in other places including the background of the widgets found on the App Rail and the background for the Action Bar. This opaque field of color provides high contrast to help the displayed information stand out from the bright background.





Not only does the LIGHT THEME use different gradient backgrounds but can also use different icons (fill colors like SOLID WHITE on BLACK - transparent). Be sure to not only test your screens indoors, but outdoors as well.

DARK THEME (Indoor use)

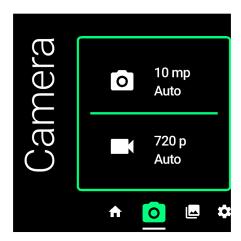


Since the Blade uses a "projection system" similar to a conference room projector, the color BLACK is actually displayed as "no color at all," fully transparent.

The DARK THEME works great in indoor conditions and resembles a traditional transparent "heads-up display" presentation. MINT GREEN and WHITE colors work best for text, icons and borders are easy to distinguish from complex indoor environments.

Icons

The Icons used on the BladeOS leverage the Google Material Design Icon set. This collection of icons uses bold geometric, symmetrical shapes that are easily recognizable even when scaled to small sizes (like the icons on the Blade Icon Rail).



Consistency across the icons in your app will help your users with recognition and recall. Although not mandatory, it is recommended that you consider utilizing the Material Design icons system. This will ensure consistency and legibility of the icons used in your App.





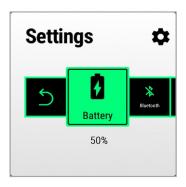




The Rail icons that appear below your widget represent your app. Rely on simplicity for this icon. Use a unique shape and don't add too many details; an overly complex icon, especially at this small size (30 x 30 px @ 1x), will look muddy and be difficult to recognize. Provide a single focal point or image and avoid any text in your icons. Full words will be too small to read; an alternative to icons is to simply use the first letter of your app (mnemonic) as the key design element. The letter will function as a unique icon and relate back to your brand.

The core Blade Apps appear MINT GREEN in the selected state, and WHITE in the non-selected state. We recommend following this convention if you choose to maximize the recognition and contrast; however, you may choose to use your brand colors.

The same style of icon is used on Action Buttons and in Settings.







High contrasting icons void of gradients and shadows will work best on the Blade display. Try to achieve a balance of solid light and dark areas in your icons to provide maximum contrast. These icons will have accompanying text below, so your customers will not just be relying on your icon to understand the action.

Imagery

The Imagery you plan to use within your app can help you differentiate your app from others. As discussed in the color section, images using saturated colors and high contrasting images will work best for the Blade display.



Both Illustrations and photography can be used to communicate different concepts. Photography works best to communicate specific things, like people, and places. Illustrations tend to communicate complex concepts and abstract metaphors.

In either case be sure to pick images that not only communicate your message, but also work well with the Blade display system. Like animations, adding imagery to your app to simply "make it look cool" will likely add unnecessary complexity and get in the way of your customers understanding of the important information you're displaying.

Voice Interactions / Voice Assistants

Overview

The Vuzix Blade provides advanced speech recognition, enabling hands-free voice navigation of the user interface. Natural voice control allows the user to perform many common Blade actions.

Vuzix also includes advance capabilities to use other 3Rd Party Voice assistance like Amazon Alexa and Google Assistant.

To initiate voice recognition, say the trigger phrase "Hello Vuzix" plus a command "Take a picture."



Command List

- Hello Vuzix Activates the listener
- Hello Blade Activates the listener
- Go Left Basic directional navigation
- Move Left Basic directional navigation
- Go Right Basic directional navigation
- Move Right Basic directional navigation
- Go Up Basic directional navigation
- Move Up Basic directional navigation
- Go Down Basic directional navigation
- Move Down Basic directional navigation
- Pick This Activates the item that currently has focus
- Select This Activates the item that currently has focus
- Confirm Activates the item that currently has focus
- Okay Activates the item that currently has focus
- Open Activates the item that currently has focus
- Scroll Down Basic directional navigation
- Scroll Left Basic directional navigation
- Scroll Right Basic directional navigation
- Scroll Up Basic directional navigation
- Cancel Navigates backward in the history stack
- Close Navigates backward in the history stack
- Go Back Navigates backward in the history stack
- Done Navigates backward in the history stack
- Go Home Triggers the Home action
- Quit Triggers the Home action
- Exit Triggers the Home action
- Stop Stops the scrolling action

- Show Menu Brings up context menu for current UI screen
- Next Advances to the next item in an ordered collection of items
- Previous Goes backward by one item in an ordered collection of items
- Go Forward Navigates forward in the history stack
- Page Up Navigates up one page
- Page Down Navigates down one page
- Volume Up Increases volume by 5
- Volume Down Decreases volume by 5
- Speech Settings Opens Speech Settings menu
- Speech Commands Opens the current Speech Command list
- Command List Opens the current Speech Command list
- Hey Google Opens Google Assistant*
- Hey Alexa Opens Alexa Assistant**
- Get Assistant Opens user selectable assistant***
- Start Recording Opens Camera app to the record function (to begin recording, use the 'Select This' or 'Pick This' command)
- Take a Picture Opens Camera app to the picture function (to take a picture, use the 'Select This' or 'Pick This' command)
- View Notifications Opens the Notification Manager
- Open Notifications Opens the Notification Manager
- Clear Notifications Clears all Notifications
- Voice Off Stops the listener

Gestures

Gestures are BladeOS specific shortcuts utilized by the touchpad. Below are some BladeOS specific shortcuts (Table 1).

Table 1. **BladeOS** Shortcuts

Wake Up/Select [One Finger, Single Tap]	If Blade is sleeping, the tap wakes the Blade up. While the screen is on, selects item in focus.
Menu [One Finger Hold for a Second]	Fires the Menu key. Keyboard - When on Keyboard, brings the menu for that key or character.
Scrub Video and Keyboard Navigation [One Finger, Swipe forward and backward]	Navigate the horizontal list. When video is playing, swiping moves the video scrubber forward/backward, where total length of video is mapped to total length of touchpad Keyboard - When keyboard is displayed, swiping moves the control forward/backward between keys.

Keyboard Navigation [One Finger, Swipe up and down]	Navigate the vertical list. Keyboard - When keyboard is displayed, swiping up and down changes the rows.
Back [Two Finger, Single Tap]	Close Action Bar – If action bar displayed, closes action bar and goes back one screen. Close Apps – If App list displayed, slides the apps into right side of glasses and turns off display.
Home [Two Finger, Hold for One Second]	Navigates to the list of Apps and focuses on first App in list (Home).
Delete or Clear Current and Display Next [Two Finger, Swipe forward]	Photos/Videos - Delete action, displays the confirmation to delete a photo or video. Notification - Clears currently displayed notification and displays next notification. Allows for clearing of "individual" notifications without having to "tap" to view actions and "tap" again to clear. Keyboard - Adds a space in the input field. Apps - Depends on the app that is currently being used.

Backspace	Backspace.
[Two Finger, Swipe	'
backward]	Keyboard - When keyboard is displayed, 2 finger swipe backwards deletes the previous char.
Volume Up/Down	Increases (up) or Decreases (down) volume.
[Two Finger, Up or Down]	Also applies if App is running in the background.
Mute	Mutes system volume
[Two Finger, Swipe Down and Hold for One Second]	

Screen-Off [Three Finger Tap]	Turns the screen off
Virtual Assistant [Three Finger, Hold for One Second]	Shortcut to any virtual assistant on the Blade (i.e. Alexa)

Device Feedback

Model 494 Only: The Blade Upgraded is equipped with stereo speakers to allow users to enjoy audio content, without needing a connected headset. With the addition of the speakers on this model, the Blade Upgraded devices no longer have haptic feedback available.

Model 447 Only: The Blade features dual haptic feedback motors to supplement the visual user interface. These "vibrations" are meant to support "success" and provide feedback for "awareness" and "attention."

Haptic feedback is currently available on both sides of the Blade.

Developers can utilize the Haptic Feedback to represent their desired actions or attentions.

Single Side of Blade vibration

Vibrations on either the left or side of the Blade are used to direct "action" to the Touchpad. These vibrations can be customized by the developer using the Haptics API developed by Vuzix. To control both sides simultaneously, developers can use the standard Android Vibrator API.

Example of Usage:





- Single vibrations can be used for simple feedback of attention and awareness.
- **Double** vibrations can be used for attention. The double vibrations should be performed within 250 milliseconds of each other.

BLE/Wi-Fi

The Blade glasses support two methods of wireless communication: Bluetooth Low Energy and Wi-Fi.

Bluetooth

Bluetooth allows for communication between the glasses and other Bluetooth enable devices. Bluetooth is required to be ON to communicate with the other device, initiate Pair or manage other Bluetooth settings. Bluetooth pairing can be initiated from either the device or the Blade. To check the Bluetooth status, go to the Settings App and its Widget should display the status. In addition, open the "Settings, Bluetooth" and view the "Pair" choice. If paired successfully, a paired indicator will be displayed along with the smartphone name. If not paired, a "Not Paired" status would be displayed.

Bluetooth Low Energy (BLE)

Bluetooth Low Energy allows for communication between the glasses and other BLE devices. Bluetooth is required to be ON to receive communications from your other devices. To check the BLE status, go to the Settings App, Bluetooth should display the status. In addition, open the "Settings, Bluetooth" and view the "Pair" choice. If paired successfully, a paired indicator will be displayed along with the device name. If not paired, a "Not Paired" status would be displayed.

Wi-Fi

Wi-Fi enables the Blade glasses to communicate directly with the internet or an intranet. To check the Wi-Fi status, open the "Settings" and view the "Wi-Fi" choice. The associated values (ON/OFF and Network name/No Wi-Fi network) are values displayed below the settings. Wi-Fi connectivity may be required for certain apps to work successfully. The Blade only supports the 2.4 GHz Wi-Fi band.

Micro SD Card

The user can "extend" the storage capacity of the Blade by adding a Micro SD card. The current maximum supported SD-Card is 512GB in FAT32 format.