Features

Rear View of Vision Screener

Front View of Vision Screener
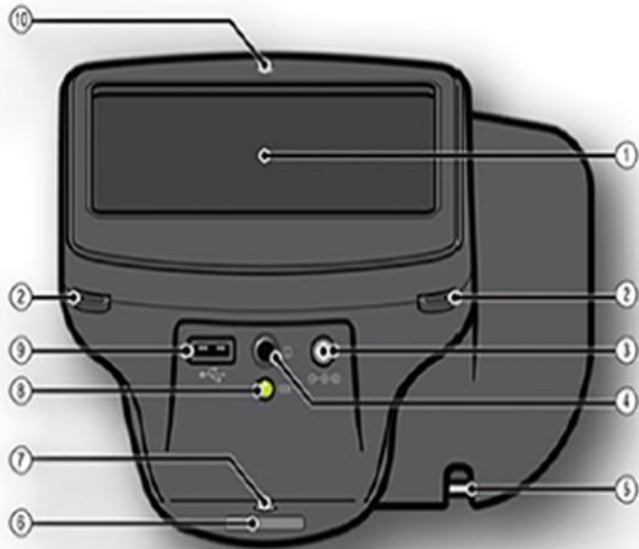
1. ………. LCD Screen
2. ………. Neck Strap Mount
3. ………. AC Power Connector
4. ………. Power Button
5. ………. Wrist Strap Mount
6. ………. Serial Number Label
7. ………. Tripod Mount
8. ………. Battery Charge Green LED Indicator
   (Flashing) or charged (Continuous)
9. ………. USB Port
10. ……... Ambient Light Sensor
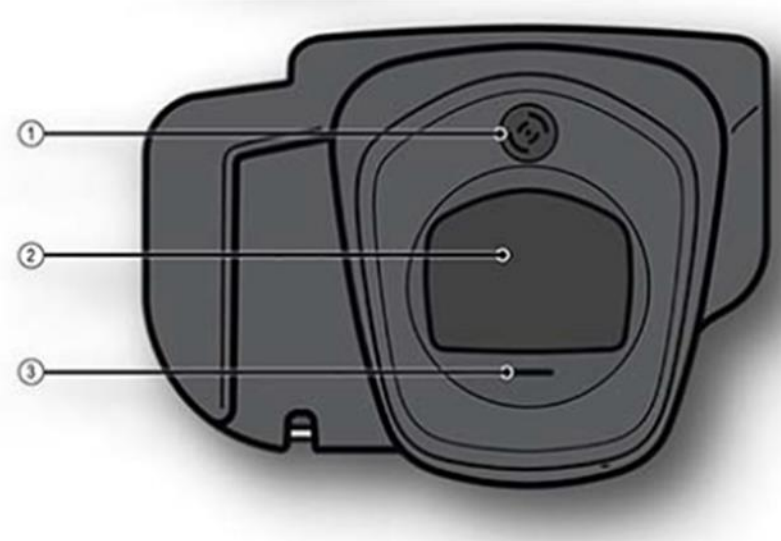
1. ………. Range Finder
2. ………. Front Glass
3. ………. Speaker

User Interface Symbols

Symbol	Description
	Battery status/level indicator
	Battery charging
	Wireless On/Off button
	Sound off
	Sound on
	Continue
	Back
	Exit

Getting Started

Charging Spot

Spot contains a rechargeable battery for mobile use. To charge the battery, tilt Spot forward and find the power connector port , then gently insert the power connector from the AC adapter, as seen below. DO NOT force the power connector into the power port on Spot. It should easily insert. Forceful insertion can cause damage to Spot and potentially void the limited warranty. Finally, plug the AC adapter into an available AC outlet. When the battery charge indicator (green LED) is steady, no further charging is required (Figure 1). Spot will also run directly off the AC power source.

Wrist Strap

ALWAYS use the included wrist strap as extra precaution to help prevent damage to Spot if it slips from your hands. Attach the wrist strap to the pin located under the handle. DO NOT carry Spot by the wrist strap. The wrist Strap is an extra precaution but does not guarantee damage will be prevented if dropped.

Tripod mount

The vision screener can be mounted to a standard photographic tripod. A ¼-20 threaded mount located on the bottom of the device is available for attaching a tripod.

Powering Spot On and Off

To power on Spot, press and release the power button. The system will take approximately 30 seconds to complete its start-up process. When complete you will be at the Main Menu or Home Screen.

To power off Spot, hold the power button for about 2 seconds. A confirmation screen will appear to confirm shutdown of the device.
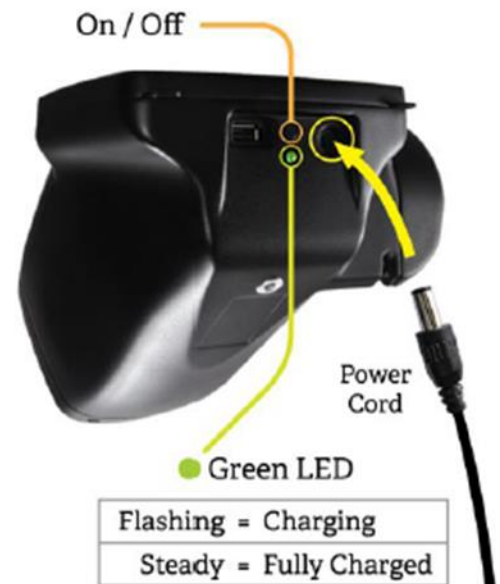

On / Off

Power Cord

● Green LED

| Flashing = Charging |
| Steady = Fully Charged |

Figure 1

Display Window

When the vision screener is powered on, the main menu or **Home** Screen will appear.

Figure 2

Touch Screen Display Options:

1. **Age Range – <u>USE THIS OPTION TO START VISION SCREENING</u>**

To begin instant screening, with no personal subject data, select the age range of the student from the listed age options.

2. **START Button – <u>DO NOT USE THIS OPTION</u>**

The START button will allow you to enter first and last name, gender & date of birth/Age, etc.

3. **Icons on Bottom of Screen**

- **Queue** – View/Select queued subjects from a list; <u>**Will Not Be Used**</u>
- **History** – View completed records. Select this option at the end of the day to delete all data.
- **Tools** – A variety of options to customize the vision screener.

Helpful hints
• **No activity on the vision screener** — After 60 seconds the display screen will dim; after 5 minutes the it will automatically turn black to conserve battery power. Tap the display screen to 'wake up' the vision screener or press the power button. If the screen does not light up, plug in the power cord and try again.
• **To change the time-out duration** to 30 sec, 1 min or 2 min, go to **Tools** and select **Results** icon.
• **You can turn the capture sound on/off** by pressing the icon in the top right corner of the capture screen.
• **To delete ALL records from the vision screener**—Go to the **History** screen and select **Clear All** icon. Select **Delete** to delete all records.
• **Avoid powering off during a screening** — Once in the screening mode, exit by selecting the **Exit** button, then power down the device normally.
• **Low Battery** — When the battery level reaches a very low level, a notice will appear to the user indicating they should insert the power cable or the device will shut down. If no power cable is inserted, the device will automatically shut down due to low voltage.

System restart
1. To power cycle the vision screener - press and hold the **On/Off** button until a confirmation screen appears. Select **Confirm** to power off.
2. When the screen turns black, wait 30 seconds and then press the power button to turn the vision screener back on. Ensure the device has power by plugging in the power cord.
System freeze
In the event the vision screener locks up and is unresponsive to touch, you will need to perform a hard system reset.
1. Press the **On/Off** button.
2. If the **Power Off** window appears, select **Confirm** to shutdown the device.
3. If not, **press and hold** the **On/Off** button until the screen goes black, then release the **On/Off** button.
4. Wait about one minute then perform the normal start-up process.

Setup

- Ensure that room lighting is appropriate for vision screening. Turn off lights and close blinds or curtains, if possible. The child's back should be positioned to the interfering light source.

- Avoid direct light into the patient's eyes from: ambient light sources, exterior lights, incandescent and halogen lights.

- Explain the process to child and parent/guardian

- Ergonomic design is comfortable for screener while capturing from a non-invasive 3.3 feet distance

Incandescent Lights

Sunlight & Windows

1 meter

Preferred Operator Position
Operator seated in a chair with device placed on top of tripod platform. Slowly move device forward and back on platform . Operator assisted by helper.
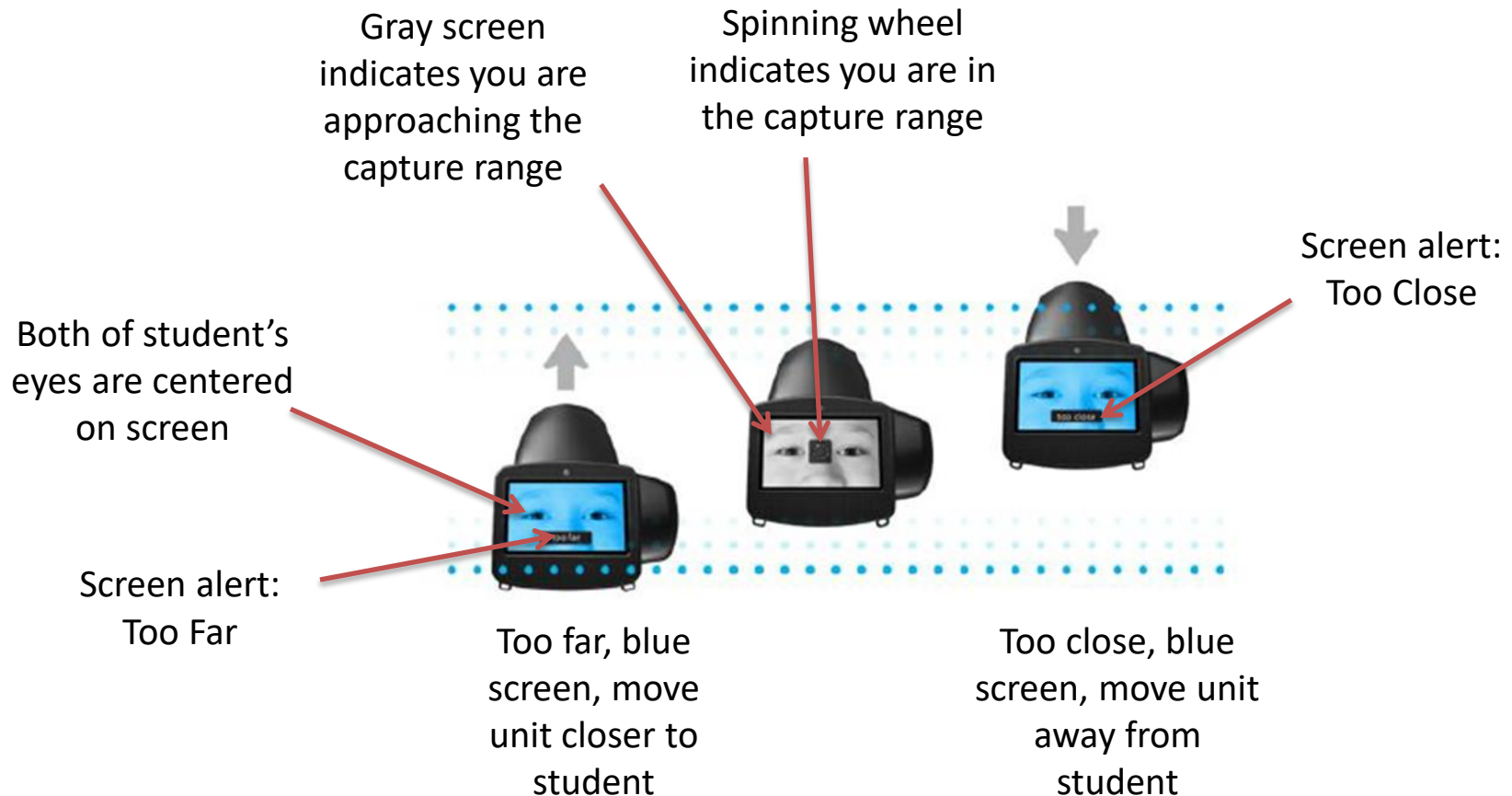
VISION SCREENING A STUDENT

Set-up the tripod with the platform top . Position the center of the tripod platform approximately 1 meter from student. Using the wrist strap, place the Spot Screener on top of the platform. Adjust the tripod platform position up or down until the subjects eyes are aligned with the screener. Slowly move the Spot Screener forward and back on the tripod platform until the display screen turns from blue to gray, indicating you approaching the capture range. Continue to slowly move the Spot Screener forward and back with smaller movements until the spinning wheel appears with a gray screen, indicating you are in the capture range. A blue screen indicates you are too far or too close from the subject and the screen will alert you if you are too far or too close. Hold the device steady until the screening process is complete.

NOTES:
1. Keeping Spot even (on axis) with the subject's eyes will promote quicker results.
2. You can turn the capture sound on/off by pressing the **Sound Off/On** icon near the upper right corner of the capture screen.
3. If the display screen tells you "pupils too small", try dimming the lights further to help dilate the pupils to an adequate size. To insure a successful screening, the student's pupils should be 3mm or greater. A large black umbrella can be used to block any residual light.
4. Press the **Exit** icon near the upper left corner to terminate the screening.
5. If you were unable to capture the subject's pupils with a successful screening, the screening cycle will time-out. You can retry the screening by returning to the Home screen.
6. Do not power off Spot during a screening. Instead, exit the screening by selecting the **Exit** icon, then power down the device normally.

How to focus the vision screener

Start screening and insure that both of the student's eyes are centered on the screen. Slowly move the Spot Screener forward and back on the tripod platform until the display screen turns from blue to gray, indicating you approaching the capture range. Continue to slowly move the Spot Screener forward and back with smaller movements until the spinning wheel appears with a gray screen, indicating you are in the capture range. A blue screen indicates that you are too far from or too close to the subject and the screen will alert you if you are too far or too close. Hold the device steady until the screening process is complete.

Gray screen indicates you are approaching the capture range

Spinning wheel indicates you are in the capture range

Screen alert: Too Close

Both of student's eyes are centered on screen

Screen alert: Too Far

Too far, blue screen, move unit closer to student

Too close, blue screen, move unit away from student
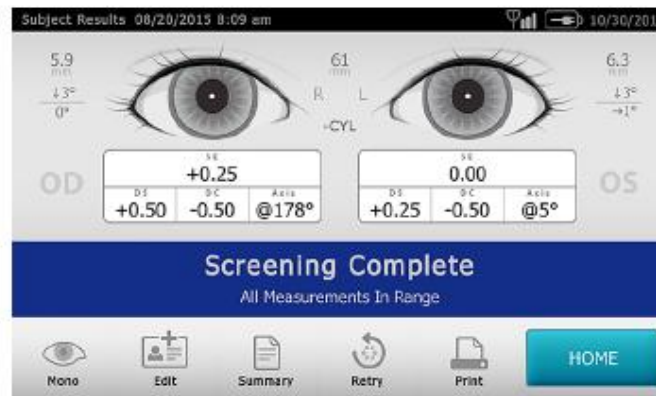
VIEWING THE RESULTS

The results screen will appear at the end of the screening process.
For the Pass / Refer format there are only three basic results:
1. **Screening Complete** – All measurements in range: This is a **Pass**
2. **Complete Eye Exam Recommended** : This is a **Refer**.
3. No results (Screening timed-out): This is an **Inconclusive** . It is treated as a **Refer.**

All other data on the results screen will not be used and should be ignored.

Measurements within range

Eye exam recommended