Philips Color Kinetics LightAide Beta Test Evaluation Report

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<u>Background.</u> Prior to Beta testing, TERC, Inc., an educational research and development organization located in Cambridge, MA, worked with PCK to conduct initial testing of the LightAide prototype for usability and feasibility in classroom, clinical/therapy, and home settings. The full evaluation report for the prototype test can be found at: http://lightaide.terc.edu/reports/index.html. This prototype testing provided encouraging information about use of the LA with learners who are visually impaired, with or without additional disabilities. It also revealed several implications for subsequent development and testing that included: 1) suggestions to improve the device itself; 2) specific feedback regarding the activity offerings; 3) the need for support materials

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project Beta test website (http://lightaide.terc.edu/beta/index.html) to download the User Guide, Activity Summary, and participant consent forms. Participants used the device as often as they liked during a two to three week period (sometimes longer 1-3 months to allow for multiple users in one location)

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Over time, a child may increase use of functional vision with this device.

- The device acts as a learning tool for these students and helps them with tracking and switch use. It assists when we are evaluating them to show an increase in growth from beginning to present uses.
- I think it might give us a new way to assess what our students know (if used the right way).

Motivation and Engagement — Participants were asked if they think that the LightAide is engaging and motivating for children/students?

• All of the participants (8/8, 100) said that the LightAide is engaging and motivating for children/students.

Comments about Motivation and Engagement

- Yes, but students need a staff member with them to ensure motivation and focus.
- My child is very responsive to lights. This device may be a way to keep him engaged in activities especially around learning.
- Yes, because the children are interested in it no matter what their ability is. They enjoyed the bright colors and the ability to change the lights and colors with the switch.
- I think it gives students the opportunity to explore something different and try new technology. It is also very motivating for students.

Potential Uses of the LightAide – Participants were asked to indicate their level of agreement with several potential uses of the LightAide. Participants' responses to this question are summarized in Table 4 below.

Table 4.

division of Philips that develops professional LED lighting systems. TERC, Inc., an educational research and development organization located in Cambridge, MA, is working with Philips to conduct Beta testing of the LightAide in classrooms, clinic and therapy sessions, and homes. As part of this effort, we have created this survey to gather your feedback following testing of the Beta version of the device. We would appreciate it if you would complete this feedback survey. It should take no longer than 30 minutes to complete. Thank you for your time and consideration.

Please provide the following information about yourself and the students with whom you'll use the LightAide with:

1. Contact Information

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Very usefulUsefulNeutralUselessCompletely useless
3. What information provided in the Guide was particularly helpful?
4. Was there any information that was confusing or missing from the Guide?
5. Do you have any additional comments or suggestions for improving the "Guide for Set Up and Use of the LightAide?"
1. Did you use the "LightAide Activity Summaries?" YesNo
2. If so, how useful were the "LightAide Activity Summaries?" Not applicable Very useful Useful Neutral Useless Completely useless
3. How would you rate the following components of the "LightAide Activity Summaries"? (1=Poor 5=Excellent)
Introduction - Purpose and Goals for the Device Activity Goals Target Audience Standards Alignment Set-Up Role of Leader and Learner(s) Extensions Comments
4. Please indicate whether you agree or disagree with the following statements. The LightAide Activity Summaries helped me to Choose appropriate activities to do with my child/students. Set-up and prepare to do activities. Implement the activities. Comments
5. What information provided in the "LightAide Activity Summaries" was particularly helpful?

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- 6. Was there any information that was confusing or missing from the "LightAide Activity Summaries?"
- 7. Do you have any additional comments or suggestions for improving the "LightAide Activity Summaries?"
- 1. What are your general impressions or thoughts about the LightAide?
- 2. Please explain which LightAide Activities you found particularly useful. Please include why they were

No

If yes, please explain or give an example.

4. Please indicate your level of agreement with the following potential uses of the LightAide. (Strongly Agree, Agree Disagree, Strongly, Disagree)

The LightAide could be to be used to:

Help students learn standards-based English Language Arts and Mathematics content. Help students master skills that are components of the Expanded Core Curriculum (ECC). Assess the vision capabilities of students/children.

Motivate members of the intended audience to utilize the vision that they have and participate in therapies.

Comments

5. Additional Comments:

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