

User test reports for SETT project on assistive technology Eneso enPathia (virtual 'head mouse') and Eneso enCore (USB switch interface) supplied by Alpha-Active Ltd

March 2015

These assistive technology products were evaluated by people with a disability working on the Services for Enabling Technology (SETT) project. The project is a partnership between National Star and Beaumont specialist colleges, funded by JISC (www.jisc.ac.uk), working with developers of assistive technologies to review products, providing feedback to companies and potential users.

The test reports are provided 'as received' without editing by the manufacturer (Eneso) or the supplier and project participant (Alpha-Active Ltd).

Please visit the SETT project web site at: www.producttesting.org.uk where videos may be seen.

National Star College (www.natstar.ac.uk) and Beaumont College (<http://www.scope.org.uk/support/services/education/beaumont-college>) are Ofsted Grade 1 specialist colleges providing Further Education, supported living and services for people with disabilities and training for professionals. They support people to maximise opportunities for living, occupation and employment and have expertise with assistive technologies for IT Access, communication and independent living.

Further information on the Eneso enPathia (virtual 'head mouse') and the Eneso enCore (USB switch interface) supplied in the UK by Alpha-Active Ltd may be found at: www.alpha-active.com/AT.html.

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Test Report 2: enCore

Test Report 1: enPathia


Tester Ref:	A1	Date: 22/01/2015	Company Name: National Star College
Product Ref:			Product Name: Eneso enPathia- Alpha-Active Ltd.
Product Description (See product submission form)	<p>Accessible Computer control system.</p> <p>The Eneso enPathia adapted head mouse assistive technology provides computer access for people with restricted mobility or null mobility in their upper extremities. This innovative technology provides a high quality 'virtual' alternative to conventional keyboard and mouse, for hands-free use.</p>		
Features Tested (See product submission form)	Head Mouse		
Target user group (See product submission form)	<p>For anyone with physical disabilities who does not have enough mobility in the upper extremities to use a conventional mouse and/or keyboard.</p> <p>enPathia was developed by specialist assistive technology company Eneso in Spain, together with therapists and volunteers with a number of disability pathologies such as: tetraplegia, spina bifida, brain paralysis, multiple sclerosis. This is one of the reasons why enPathia is such a versatile and simple to learn system.</p>		

Rating Scale: Please tick the relevant box. 1 – Poor 2 – Ok 3 – good 4 – v. good

	Tester Comments	Supervisor comments
Functionality	Quite sensitive to movements, and accurate once calibrated correctly. Had to slow down the sensitivity. The Options tab is hard to select, a further Option isn't always displayed. I found it hard to find the Keyboard. The introduction would have been useful on the plugging in of the USB.	Needed some supervision to get the Velcro attached before plugging in the USB.
Tester Rating	1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input checked="" type="checkbox"/>	
Ease of setup	The setup was quite simple, after attaching the wire to the USB plug and placing the head strap in a comfortable position. I was unsure which slot to plug the wire into as I hadn't read the instructions completely before I tried it.	Needed some prompting from the supervisor to try the end of the USB.
Tester Rating	1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input checked="" type="checkbox"/>	
Ease of learning	I felt I was able to learn how to direct the mouse on my screen quite easily. I did feel the calibration was quite quick and could have benefited from an option to have an Audio prompt.	Liam picked up quite quickly to tilt his head rather than to turn Left or Right.
Tester Rating	1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/>	
Initial Setup Support Requirements	The Programme had already been installed on the Testing Laptop. I would have been able to install it on my own laptop using the disk provided in the pack.	
Tester Rating	1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/>	
Ongoing Setup Support Requirements	I didn't need any. I just started to use it and find out for myself how to find the bits I needed. If I was less patient I might have struggled to find the Menu and keyboard options. It took me a while to find these. It would be easier if there was a one click option for the keyboard.	Liam wanted to try the Head Mouse out without any further assistance.
Tester Rating	1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/>	
Sensory & Tactile aspects	It feels comfortable to wear, nice and soft to touch and not irritating. I was able to adjust it to fit my head and move it around to find a good position.	
Tester Rating	1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input checked="" type="checkbox"/>	
Physical considerations (e.g. positioning)	I had to recalibrate when I moved in my chair after a short period of time meaning my resting position wasn't consistent.	Sensitivity changed with support.

	<p>Finding my resting position was difficult as there wasn't an obvious area to focus my head position back into.</p> <p>The mouse never seemed to stop moving, even when I had. I'm not sure if I had the sensitivity too high?</p>	
<p>Tester Rating</p>	<p>1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/></p>	
<p>Aesthetic Appeal</p>	<p>The device looks really smart in the well packaged box.</p>  <p>The information provided with the device is printed on nice paper, it may need to be able in larger text or as an option on screen for a user to read.</p>	
<p>Tester Rating</p>	<p>1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input checked="" type="checkbox"/></p>	
<p>Robustness</p>	<p>It looks well made, and fairly robust. I would be worried the connecting wire may be susceptible to breakage due to its thickness. I did feel comfortable wearing it that I might have accidentally stood up wearing it and walked off. Would a Bluetooth option be available?</p> 	

Tester Rating	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>
Possible risks (i.e. health and wellbeing considerations)	Leaving the computer whilst wearing the device might prove dangerous. I played with the wire as it was dangling down at the side of the laptop, so I might have made the connection loose over time.		Prompts were given to ensure Liam stayed at the desk with the Head Mouse on.	
Tester Rating	1 <input type="checkbox"/>	2 <input checked="" type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>
Compatibility – see developers' notes (Devices? Software?)	It was compatible with the laptop I tested it on. I think it would have been fine on my own laptop as I run the same version of Windows as the College.		<i>May need to be tested from an install...?</i>	
Tester Rating	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>
Conformance to Standards	It appeared to have been checked and well packaged by Eneso.			
Tester Rating	1 <input type="checkbox"/>	2 <input checked="" type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>
Training Requirements	None really needed. Just time to practice enabled me to get used to the device. Having a supervisor was useful.			
Tester Rating	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input checked="" type="checkbox"/>
Quality and range of available support materials	I had the Black and White user guide and the Quick start paper guides. On the screen I had the Help tab. I didn't spend much time reading the user guide as there was a lot of paperwork. I flicked through the Quick Start user guide because it was in colour and looked interesting.		Liam would have required some support to have read through the whole user guide. Some of the terminology was un-clear and didn't follow the order of setup on screen.	

	 <p data-bbox="456 719 1026 824">I felt I was better to just try the device and refer to the guide if I needed some support or had a query.</p>	
Tester Rating	1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input checked="" type="checkbox"/>	

Summary


General Usability	<p>It's the first time I have used something like this as I have use of my Left arm. I found it really interesting to use and experiment with. It's not something I would use personally but I can see the benefits to those who don't have use of their Arms.</p>	
Tester Rating	1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input checked="" type="checkbox"/>	
Which features are liked/disliked?	<p>I really liked the on screen Keyboard once I had found it. I liked being able to test a new product and one that I could recommend to some of my friends.</p> <p>I liked the visual display at the beginning of the calibration. The cartoon moving itself to demonstrate what was being asked. This ideally needs to be slowed down to allow for users to complete the task.</p> <p>Being able to setup my own profile was useful and I think each time I used the device I would get better and better at using it.</p> <p>I liked the ability to change the keyboard size and the Quick start guide for reference. There wasn't anything I disliked about the product. It is a good piece of kit for the right user.</p>	


Recommendations for use (e.g. contexts; environments)	It would be good for use within a Classroom environment with a PC or a laptop. I could see this being used on a personal device at home or in work.	
Any additional comments:	Tester	Supervisor
Overall Rating	1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/>	

Test Report 2: enCore

Tester Ref:	A7	Date: 12-01-15	Company Name: National Star
Product Ref:			Product Name: EnCore
Product Description (See product submission form)	None provided.		
Features Tested (See product submission form)	Adaptor USB <ul style="list-style-type: none"> - Switch functionality - Joystick controls. 		
Target user group (See product submission form)	None stated		

Rating Scale: Please cross the relevant box.

	Tester Comments	Supervisor comments
Functionality	I plugged in the coloured switches to the arrows first. I tested the top four after. Easy to plug in with my support.	Tester left to complete the setup independently. IT Technician called to installed the software on the testing laptop.
Tester Rating	Very good <input type="checkbox"/> Good <input checked="" type="checkbox"/> OK <input type="checkbox"/> Poor <input type="checkbox"/>	
Ease of setup	It was easy. My support did it as I told them I wanted it.	Directed by the Tester- no problems occurred.
Tester Rating	Very good <input type="checkbox"/> Good <input checked="" type="checkbox"/> OK <input type="checkbox"/> Poor <input type="checkbox"/>	
Ease of learning	It was easy- it did what my support told me it would do. It went up when I pressed the switch. When I tested the other four it did all of the functions. Left click etc.	
Tester Rating	Very good <input type="checkbox"/> Good <input checked="" type="checkbox"/> OK <input type="checkbox"/> Poor <input type="checkbox"/>	
Initial Setup Support Requirements	 <p>I had everything set up by my support. There were a lot of wires. I arranged them in an order/triangle so I knew which one I was choosing.</p>	Labels provided for the joystick or switches to help identify the controls.
Tester Rating	Very good <input type="checkbox"/> Good <input checked="" type="checkbox"/> OK <input type="checkbox"/> Poor <input type="checkbox"/>	
Ongoing Setup Support Requirements	None, It worked when I'd connected everything.	
Tester Rating	Very good <input checked="" type="checkbox"/> Good <input type="checkbox"/> OK <input type="checkbox"/> Poor <input type="checkbox"/>	
Sensory & Tactile aspects	I liked the colour switches but it wasn't clear until they were placed in a pattern what did what.	
Tester Rating	Very good <input type="checkbox"/> Good <input type="checkbox"/> OK <input checked="" type="checkbox"/> Poor <input type="checkbox"/>	
Physical	Too many wires and not enough	

considerations (e.g. positioning)	information on the adaptor.	
Tester Rating	Very good <input type="checkbox"/> Good <input type="checkbox"/> OK <input type="checkbox"/> Poor <input checked="" type="checkbox"/>	
Aesthetic Appeal	It looks very professional. Nice box and colours. 	
Tester Rating	Very good <input checked="" type="checkbox"/> Good <input type="checkbox"/> OK <input type="checkbox"/> Poor <input type="checkbox"/>	
Robustness	I didn't try to break it but it looks tough. I could put it in my bag and not worry.	
Tester Rating	Very good <input type="checkbox"/> Good <input checked="" type="checkbox"/> OK <input type="checkbox"/> Poor <input type="checkbox"/>	
Possible risks (i.e. health and wellbeing considerations)	The amount of wires.	
Tester Rating	Very good <input type="checkbox"/> Good <input type="checkbox"/> OK <input checked="" type="checkbox"/> Poor <input type="checkbox"/>	
Compatibility – see developers' notes (Devices? Software?)	N/A	
Tester Rating	Very good <input type="checkbox"/> Good <input type="checkbox"/> OK <input type="checkbox"/> Poor <input type="checkbox"/>	

Training Requirements	I would need to keep practicing with this to get better at using it. Labels would need to go on it for directions.	
Tester Rating	Very good <input type="checkbox"/> Good <input checked="" type="checkbox"/> OK <input type="checkbox"/> Poor <input type="checkbox"/>	
Quality and range of available support materials	None. I would probably look online.	
Tester Rating	Very good <input type="checkbox"/> Good <input checked="" type="checkbox"/> OK <input checked="" type="checkbox"/> Poor <input type="checkbox"/>	

Summary


General Usability	Good	
Tester Rating	Very good <input type="checkbox"/> Good <input checked="" type="checkbox"/> OK <input type="checkbox"/> Poor <input type="checkbox"/>	
Which features are liked/disliked?	I liked the packaging and logo, it looks smart.	
Recommendations for use (e.g. contexts; environments)		
Any additional comments:	Tester	Supervisor
		The tester has identified some areas for improvement on the product. It would be good to get it labelled up and have switches or a joystick as part of the

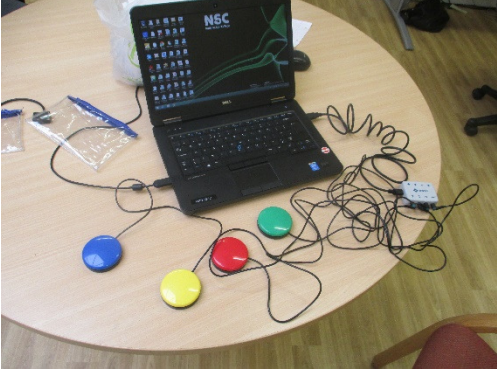

		package.		
Overall Rating	Very good <input type="checkbox"/>	Good <input checked="" type="checkbox"/>	OK <input type="checkbox"/>	Poor <input type="checkbox"/>

Test Report 3: enCore

Tester Ref:	A5	Date: 12-01-15	Company Name: National Star
Product Ref:			Product Name: EnCore- USB Switch Interface
Product Description (See product submission form)	None supplied.		
Features Tested (See product submission form)	Adaptor USB - Switch functionality - Joystick controls.		
Target user group (See product submission form)	None stated		

Rating Scale: Please cross the relevant box.

	Tester Comments	Supervisor comments
Functionality	I plugged in four different coloured switches into the arrow slots. I tested the other four functions, left click, right click, double click and drag and drop. I had to ask my Supervisor to have the disc installed.	Tester left to complete the setup independently. IT Technician called to install the software on the testing laptop.
Tester Rating	Very good <input type="checkbox"/> Good <input checked="" type="checkbox"/> OK <input type="checkbox"/> Poor <input type="checkbox"/>	
Ease of setup	Okay, I just plugged it in and it worked after we have the programme installed. 	.
Tester Rating	Very good <input type="checkbox"/> Good <input checked="" type="checkbox"/> OK <input type="checkbox"/> Poor <input type="checkbox"/>	
Ease of learning	It was very easy to use as the direction controller for my mouse on screen. The other functions weren't as easy to use and I'm not sure why I'd use it?	
Tester Rating	Very good <input checked="" type="checkbox"/> Good <input type="checkbox"/> OK <input type="checkbox"/> Poor <input type="checkbox"/>	
Initial Setup Support Requirements	The programme was installed by the IT Tech dept. It worked well.	The tester was encouraged to have a go with the product and see what happens- no instructions or product submission completed.
Tester Rating	Very good <input checked="" type="checkbox"/> Good <input type="checkbox"/> OK <input type="checkbox"/> Poor <input type="checkbox"/>	
Ongoing Setup Support Requirements	None	
Tester Rating	Very good <input checked="" type="checkbox"/> Good <input type="checkbox"/> OK <input type="checkbox"/> Poor <input type="checkbox"/>	

Sensory & Tactile aspects	<p>Lots of wires on the desk, it would need a permanent install to look smarter and be easier to access.</p> 	
Tester Rating	Very good <input type="checkbox"/> Good <input type="checkbox"/> OK <input checked="" type="checkbox"/> Poor <input type="checkbox"/>	
Physical considerations (e.g. positioning)	<p>Well packaged and a nicely labelled adaptor.</p> 	
Tester Rating	Very good <input checked="" type="checkbox"/> Good <input type="checkbox"/> OK <input type="checkbox"/> Poor <input type="checkbox"/>	
Aesthetic Appeal	<p>It looks smart- but way too many wires.</p>	
Tester Rating	Very good <input type="checkbox"/> Good <input type="checkbox"/> OK <input checked="" type="checkbox"/> Poor <input type="checkbox"/>	
Robustness	<p>It's made well and appears to be strong and smooth.</p>	
Tester Rating	Very good <input checked="" type="checkbox"/> Good <input type="checkbox"/> OK <input type="checkbox"/> Poor <input type="checkbox"/>	
Possible risks (i.e. health and wellbeing considerations)	<p>Too many wires may cause a safety risk when trying to use all together or separately as a four.</p>	

Tester Rating	Very good <input type="checkbox"/> Good <input type="checkbox"/> OK <input checked="" type="checkbox"/> Poor <input type="checkbox"/>	
Compatibility – see developers' notes (Devices? Software?)	N/A	
Tester Rating	Very good <input type="checkbox"/> Good <input type="checkbox"/> OK <input type="checkbox"/> Poor <input type="checkbox"/>	
Training Requirements	Just practice required and initial set up support.	
Tester Rating	Very good <input checked="" type="checkbox"/> Good <input type="checkbox"/> OK <input type="checkbox"/> Poor <input type="checkbox"/>	
Quality and range of available support materials	None provided with the product. Disc with the installation software provided in the pack. Very cool disc!	
Tester Rating	Very good <input type="checkbox"/> Good <input type="checkbox"/> OK <input type="checkbox"/> Poor <input checked="" type="checkbox"/>	

Summary

General Usability	Okay. Needs to be reviewed with number of plug ins.	
Tester Rating	Very good <input type="checkbox"/> Good <input checked="" type="checkbox"/> OK <input type="checkbox"/> Poor <input type="checkbox"/>	
Which features are liked/disliked?	I really liked the drag and drop function.	

Recommendations for use (e.g. contexts; environments)	Review the wires.	
Any additional comments:	Tester	Supervisor
	Easy to setup, install and use. Good functionality; just too many wires and switches for almost all users.	
Overall Rating	Very good <input type="checkbox"/> Good <input checked="" type="checkbox"/> OK <input type="checkbox"/> Poor <input type="checkbox"/>	

Test Report 4: enCore

Tester Ref:	007	Date: 26.01.2015	Company Name: National Star
Product Ref:			Product Name: EnCore USB Switch Interface
Product Description (See product submission form)	<p>Switch Adapter with eight inputs. Software included to customise input settings including button configuration (mouse, keyboard or joystick) and speed settings.</p> <p>Connects with USB cable (included) and has required software on rectangular CD.</p>		
Features Tested (See product submission form)	<p>Switch access to replicate:</p> <ul style="list-style-type: none"> • Mouse movement (left, right, up down) • Mouse clicks (left click , right click, double click, drag and drop) • Keyboard buttons (including shortcuts) 		
Target user group (See product submission form)	<p>Chin Switch users Advanced switch users Cases where eye-gaze technology isn't appropriate For gaming</p>		

Rating Scale: Please cross the relevant box.

	Tester Comments	Supervisor comments
Functionality	Works well as switch adapter, no noticeable problems. Flexible and could be used for a large combination of personalised controls to allow access	
Tester Rating	Very good <input checked="" type="checkbox"/> Good <input type="checkbox"/> OK <input type="checkbox"/> Poor <input type="checkbox"/>	
Ease of setup	Not particularly clear initially what was needed, but once the software was located on the CD it was easy to set up. Could have simple instructions on back of case.	
Tester Rating	Very good <input type="checkbox"/> Good <input type="checkbox"/> OK <input checked="" type="checkbox"/> Poor <input type="checkbox"/>	
Ease of learning	Straightforward if already familiar with switches; might be too advanced for some learners.	
Tester Rating	Very good <input checked="" type="checkbox"/> Good <input type="checkbox"/> OK <input type="checkbox"/> Poor <input type="checkbox"/>	
Initial Setup Support Requirements	Software installation required, manual connection of switches and assigning keys using software. Fairly complex but not considering the end purpose	
Tester Rating	Very good <input type="checkbox"/> Good <input checked="" type="checkbox"/> OK <input type="checkbox"/> Poor <input type="checkbox"/>	
Ongoing Setup Support Requirements	On second running simply needed to be plugged in and logged onto machine. Software ran automatically.	
Tester Rating	Very good <input checked="" type="checkbox"/> Good <input type="checkbox"/> OK <input type="checkbox"/> Poor <input type="checkbox"/>	
Sensory & Tactile aspects	Dependant on switch system chosen, so useful to adapt for different tactile needs.	
Tester Rating	Very good <input type="checkbox"/> Good <input checked="" type="checkbox"/> OK <input type="checkbox"/> Poor <input type="checkbox"/>	
Physical considerations (e.g. positioning)	Unusual to have the default "left" switch input to the right of the "right" switch input but otherwise no difficulties. The switch adapter appeared to be robust enough for day to day use.	
Tester Rating	Very good <input type="checkbox"/> Good <input checked="" type="checkbox"/> OK <input type="checkbox"/> Poor <input type="checkbox"/>	
Aesthetic Appeal	Hardware: Clearly laid out with symbols made easy to refer to. Software: Is easy to navigate with the same clear symbols.	

Tester Rating	Very good <input type="checkbox"/>	Good <input checked="" type="checkbox"/>	OK <input type="checkbox"/>	Poor <input type="checkbox"/>
Robustness	No difficulties when testing, cables all remained in place.			
Tester Rating	Very good <input type="checkbox"/>	Good <input checked="" type="checkbox"/>	OK <input type="checkbox"/>	Poor <input type="checkbox"/>
Possible risks (i.e. health and wellbeing considerations)	Only the ones inherent to using so many switches – cabling is difficult to keep clear.			
Tester Rating	Very good <input checked="" type="checkbox"/>	Good <input type="checkbox"/>	OK <input type="checkbox"/>	Poor <input type="checkbox"/>
Compatibility – see developers' notes (Devices? Software?)	Tested on Windows 8.1 Enterprise			
Tester Rating	Very good <input type="checkbox"/>	Good <input checked="" type="checkbox"/>	OK <input type="checkbox"/>	Poor <input type="checkbox"/>
Training Requirements	Could use training in switch use and how to assign keys.			
Tester Rating	Very good <input type="checkbox"/>	Good <input checked="" type="checkbox"/>	OK <input type="checkbox"/>	Poor <input type="checkbox"/>
Quality and range of available support materials	"Quick Start Guide" did not run with text. Guide on mini-CD was clear and helpful – could do with accessing this from the software.			
Tester Rating	Very good <input type="checkbox"/>	Good <input checked="" type="checkbox"/>	OK <input type="checkbox"/>	Poor <input type="checkbox"/>

Summary

<p>General Usability</p>	<p>Would be useful to have an option to hit a switch combination that would bring up the options – then the user could operate and modify without assistance.</p> <p>Overall the product was clear to use and worked without problems</p>	
<p>Tester Rating</p>	<p>Very good <input type="checkbox"/> Good <input checked="" type="checkbox"/> OK <input type="checkbox"/> Poor <input type="checkbox"/></p>	
<p>Which features are liked/disliked?</p>	<p>Liked: customisability, ease of use, size, aesthetics and interface.</p> <p>Disliked: lack of mouse speed slider, lack of indicator on software that button has been pressed.</p>	
<p>Recommendations for use (e.g. contexts; environments)</p>	<p>Would have to be high functioning to make use of eight switches, probably in an office environment where shortcuts are useful.</p>	
<p>Any additional comments:</p>	<p>Tester</p>	<p>Supervisor</p>
	<p>Could have a removable clip on back of it to help set-up.</p>	
<p>Overall Rating</p>	<p>Very good <input type="checkbox"/> Good <input checked="" type="checkbox"/> OK <input type="checkbox"/> Poor <input type="checkbox"/></p>	