

eye control technology

The most important new assistive technology in decades...

Eye control technology opens up the world for people who would otherwise be unable to do anything. Using their eyes to control a computer screen, people can type, browse the Internet, paint, make music, play games, communicate, send e-mail, work, control appliances around the home - or anything else they want to do.



Who can use an eye tracker?

All Ages

Adults and children, people of any eye colour, with glasses or contact lenses, even people who only have one eye - can all use eye tracking.



People who find it more comfortable

Not only an option for people who have no other movement options, eye control is frequently used because it is faster and more comfortable than other methods.

Activities designed for all levels

It is also suitable for people with complex learning difficulties. Special activities meet the user's needs & provide amazing learning opportunities. From entertainment to visual therapy or communication - all are possible even with no understanding of 'eye control' as a concept.

Complex vision can be supported

People with visual difficulties, including Cortical Visual Impairment, hemianopia, nystagmus or very limited ocular movement abilities can also usually use eye tracking. Success lies in working with experienced assessors and the right content... and nobody does that better than us!

We're the experts...

We're the most experienced team in the country with years of experience! We can advise you on all aspects of product choice AND how to really implement it successfully!

What can it do?

Control

Users can gain total control of the computer, whether for early intervention activities, communication, or full Windows access.

Insight

Provides valuable information on where somebody is looking on the screen, easily identifying areas of interest, or areas of neglect. Engage in a conversation about an image, and observe how the person's eyes follow your prompts.

Environment Control & Home Automation

Eye control is one way to control appliances in your room - from heaters and TV's to Sensory/Snoezelen Room items. It offers a powerful cause-and-effect learning experience; as a person looks at a choice on a screen, real effects can be triggered around the room.

Therapy & Stimulation

An exciting aspect of eye control technology is visual therapy. Several games are available to exercise the eyes, develop searching skills, work on fixation ability, and much more.



what you'll need



If your school is looking for a system that will meet the needs of a range of learners, we can guide you through the process of selecting an eye tracker, and deciding which software options will meet their learning needs.



If your family member is struggling to communicate, we can help you plan how to fit a new device into your lives and teach you skills for successful use of a new communication method.



If you're a therapist considering including eye tracking in your practice, we can help you choose a device for assessment and stimulation, visual therapy and skills, and help you select a tracker that is both affordable and able to cope with a wide range of users.

Every eye tracking system will require these 4 components:

1. An Eye Tracker

Everybody's eyes are unique, so the best way to choose an eye tracker is to try a few, and see which works best with your eyes.

You'll usually notice that one feels best for you. That's why we offer a range of devices and recommend you try more than one.



2. A Computer

If you'd like a portable solution, you may want to choose a tablet. A laptop also offers a portable solution and can simply rest on a table or wheelchair tray.

Some people prefer a bigger screen and don't require portability, spending most time in one location, so an All-In-One computer or a large monitor are good options.



See more on Page 8

3. Software

People may need software for communication, or helps them develop eye movement skills; others want software for leisure or stimulation.

Many titles offer a free trial period so do take a look!



See more on Page 27



4. Mounting

Correct positioning is essential for successful use of any assistive technology. Mounting arms can be placed onto a bed rail, a desk, a rolling floor-stand or onto your wheelchair.

We offer a 'Virtual Mounting Service' - just send us a few pictures and we'll provide a virtual image of a bespoke solution that's perfect for you.



See more on Page 40

VENTURER eye

brought to you exclusively by **inclusive solutions**
technology for special needs

All you need in an eye tracking solution... the best value available!

As South Africa's most experienced eye tracking team, we've created a product that truly meets the needs of our clients. It includes everything you need to achieve independent eye control, at a price that we believe is the best value around. With a choice of eye trackers, you can be assured that we will help you find the **right** solution.

Grid 3 Communication Software

For easy communication, emailing, browsing, full Windows and computer control, ready-made phrase libraries, word prediction, environment control* and SO much more. For literate text users, or symbol users, adults and children just starting out with interaction. See pg 53 for more about what Grid 3 can do for you.

What does it include?

An eye tracker that suits **your** eyes

Everybody's eyes are different! That's why we offer you a choice of a Tobii PCEye Mini, a myGaze Assistive or EyeTech TM5 Mini eye tracker. You can try all three and see which feels most accurate & comfortable for you.



See pages 22 - 26

Venturer Tablet

Powerful & great value, this is our Venturer PrimePro Windows Tablet with a 12.2" Full HD Touch Screen, 4GB RAM, 128GB Storage, with Windows 10. Full details on pg 9.



Tablet Holder

With a smart matt finish, the tablet holder protects your device and allows easy mounting on an arm of your choice, for accurate positioning. See options on pg 48.



*Optional Environment control requires an additional transmitter. See pg 34.

Also includes...

Mounting Plate

Used to attach the tablet onto your chosen mounting arm.



Bluetooth Speaker

For extra volume so you can be heard in noisy places, listen to music or watch videos



PowerBank & Hub

A battery pack and 4 port USB hub so your device can last even longer while you're on the move



Eye Tracker Holder

Secures the eye tracker to the tablet holder so it is safe and easy to position perfectly



Wireless Keyboard

Useful for carers to easily edit, assist or collaborate on the device without needing to remove the tablet from holder



Power Pad

The most powerful communication device yet from Smartbox



Grid 3 Included

The Power Pad comes with our best selling Grid 3 software (more on pg 53) which offers a full suite of communication tools. Every device can be personalised to suit your communication needs. It includes learning games, on-screen keyboards, ready-made word lists, & phrase lists, social media access, computer control, environment control - and all of this in both English or Afrikaans, as well as French, Spanish, Italian too!

Power Pad is the most powerful communication device on the market, from Smartbox. With its flexible choice of access methods, it is a particularly good choice for schools and assessment centres, resource centres and hospitals, as it can meet the needs of a wide range of users with ease. The adjustable stand allows you to achieve a comfortable angle for every user.

All Access Methods

This all-in-one AAC device is designed for people with complex access needs, and will work with any alternative access method. From touch and switch, to pointing devices and eye gaze – Power Pad's integrated access features have everything you need in one portable solution. It has an integrated mount for the SmartNav Head Mouse, and is keyboard compatible for people who use touch to access the screen.

Eye Gaze Built In

The latest TM5 Mini Eye Tracker is built into the unit, making it robust, and removing any additional wires between the eye tracker camera and the computer. This is more convenient to transport, more secure and offers a stylish, sleek design. The TM5 Mini is a powerful eye tracker, capable of tracking people with involuntary movement, with a high degree of accuracy.

Symbols & Text Included

Symbol support is provided for people who are not literate, or who have emerging literacy. Word prediction is offered with symbols to assist users to select the right word - a very powerful support for new writers. Communication is possible through symbol interfaces at a variety of levels - fewer symbols for simple pages and more complex symbol pages which even provide verb morphology as you write.

Accessories

Optional accessories include a comfortable back pack for easy transportation, as well as a Bluetooth mouse and keyboard. This is useful for teachers, partners or carers to quickly edit a grid, navigate the computer if assistance is required etc. If the device will be moving between venues, a safe case is a valuable protective addition. A mounting plate is included.



Specifications

Size:	35.5 x 26.6 x 7cm
Weight:	3.5kg
Touch Panel:	13.3" 1920 x 1080p Full HD with Gorilla Glass®
Features:	2MP Front and 5MP Rear Camera Variable Angle Stand for optimum position Windows 10 Pro Intel® Core™ i5-6200U Skylake processor, 3MB, 2.1GHz up to 2.7 GHz SSD SATA III, 128GB Hard Drive 8GB DDR3 Memory / RAM 15 Hours Battery with typical Use, 9 hours with eye tracking Dual band Wireless (11ac/abgn), Bluetooth 4.0 LE GEWA Programmable IR, Easywave RF/ Z-Wave Environment control
IR Remote:	
Working Distance:	45 - 75cm
Head Movement:	(Width x height x distance)
Box:	(31.5 X 22.5 X 35cm)
Gaze Data Rate:	48 Hz
Access:	2 x 3.5mm Switch ports, 3.5mm Headphone / Mic combo port, Touch screen, Radio switch Input, Magnetic Smartnav Mount, Keyboard Compatible, 2 x USB 2.0 ports, Radio switch receiver (RF)
Method:	Dark & Bright, Binocular or Single
Warranty:	3 Years
Mounting:	RehAdapt compatible Mounting Plate included



With an Intel Core i5 processor and 15 hour battery, it provides communication all day. A hot swappable battery means you can even extend the battery life if necessary.



eye control technology

TobiiDynamox I-Series+

The ultimate, dedicated eye tracking communication device

The I-Series+ devices are the absolute luxury, top of the range eye tracking systems. With the eye tracker built into the screen, they are the strongest, simplest systems to use.

Available in a 12" or 15" size, these devices include all you could want in a communication device: a Gorilla glass, auto-rotating touch-screen makes them safe to use for touch access as well as eye tracking - really handy for carers - and a valuable tool for multi-access-method users too.

The I-Series+ is also available without eye tracking, for use as a large touch-screen communication device - ideal for people with poor fine motor control who need a sturdy, rugged device. They can be used flat or upright, and the integrated foot means they can easily stand up on their own, for use on the floor, in a restaurant, or wherever you want to chat!



Bringing you so much more

The I-Series+ boasts two powerful 3W speakers, built into the base. These face your Communication partners and ensure that even in a noisy environment, like a mall or a classroom, your voice will be heard.



Featuring the most advanced Bluetooth technology, you can pair a phone with the device to make calls and send SMS's. Front and back facing cameras allow you to make Skype calls, and take your own photos. With built in WiFi and Infrared control, you can surf the web and control many appliances in your environment.

The I-Series offers a unique 'Wake on Gaze' feature allowing you to independently put the device to sleep, then re-start it yourself without the assistance of a carer. The I-Series+ also includes **TobiiDynamox Care***, which offers additional service commitments during your warranty, such as accidental damage protection.



Includes your choice of Communicator 5 with Sono Suite, or Compass

Communicator 5 is outstanding software offering interactive communication pages at a variety of levels. Whether for an emerging symbol user, or an advanced, literate user, Communicator 5 includes a range of excellent interfaces. Pages can be completely customised to suit the visual preferences (such as high contrast for poor vision), button size requirements (for low accuracy) and functional needs of each user.

The **Sono Suite** is an extensive range of symbol and text-based interfaces which saves carers time in developing these themselves and provides a valuable springboard to success.

Compass is excellent for adults whose speech and understanding have been impacted by an event such as a stroke or brain injury. It is also suitable for early communicators who need to grow language and literacy skills. **See Page 59**



Specifications

Size:	12.1" Model: 30.7 x 27.4 x 10.5cm 15" Model: 36.9 x 32.6 x 11.2cm
Weight:	12.1": 2.8kg / 15": 3.8kg
Touch Panel:	Gorilla Glass 10 Point Multi Touch
Features:	1 Analogue Microphone 1 x HDMI 1.3 Type A Connection 2 x USB 2.0, 1 x USB 3.0 2 x 3.5m Switch ports 1 x 3.5m Headphone Stereo Jack
IR Remote:	GEWA Programmable Infrared Environment Control Unit
Working Distance:	45 - 85cm
Head Movement:	(Width x height at distance)
Box:	35 x 30cm @65cm / 35 x 35cm @80cm
Gaze Data Rate:	60 Hz
Access:	Dwell, Blink & Switch
Method:	Dark & Bright, Binocular or Single
Warranty:	3 years, with TobiiDynamox Care for unlimited free accidental damage cover

eye control technology

PCEye Mini

The smallest assistive eye tracker ever!

The PCEye Mini is the tiniest eye tracker around, making it neat, discreet and suitable for use on smaller screens. It offers all the great benefits of the Tobii brand; high quality eye tracking and range of features for optimum independence.

Able to track more than 99% of individuals, wearing glasses or contacts, it supports multiple user profiles and attaches to your monitor or laptop with magnetic strips, so it's easy to move the tracker between different users or locations.



The PCEye Mini can be used for simple interaction activities and building skills, or for full Windows Control. Choose the price and package that's right for you - see below for options!

Smarter tools for efficiency & independence

With the Windows Control bundle, built around Microsoft's touch-based interface for Windows 8/10, all the necessary gestures for swiping, zooming, typing, swapping between apps etc. are provided, giving you the freedom to interact with your device as you'd like to.



On-screen keyboard with word prediction, emoticons, numbers, symbols & more.

Perfect for games & communication too!

The PCEye Mini early skills packages are ideal for use with learning software and games; using simple 'point and click' control with 'Gaze Point' you can engage with educational and sensory games with ease.

PCEye Mini is compatible with **Communicator 5** and **Grid 3** for communication, both outstanding tools for speech generation and computer access. With a range of voices to choose from, you'll be chatting again in no time. See page 53 & 56 for more info.

Choose the Bundle that's right for you!

Whether you need basic control for early skills games, or full control of your entire Windows environment, there is a package to meet your needs. Information on each of the titles included in these bundles is available in this section.

	GazePoint Control	Windows Control	Classic Gaze Interaction
Mini with Classic Gaze Interaction	✗	✗	✓
Mini with Access	✗	✓	✗
Mini Track & Learn: with Gaze Viewer	✓	✗	✗
Mini with Look 2 Learn	✓	✗	✗
Mini with Sensory EyeFX	✓	✗	✗
Mini with Inclusive Learning Curve	✓	✗	✗



EyeMobile Mini for easy portability

The EyeMobile Mini is a sleek and stylish bracket that securely houses your tablet and PCEye Mini eye tracker, making it super easy to mount. This is ideal for people wanting a robust, portable solution. The adjustable frame can hold tablets from approximately 18 - 23cm tall. The bracket is compatible with many of our mounting arms for convenient and accurate positioning. (Bracket & arms are a separate purchase.) Tablet options available - talk to us about your needs.



Analysis, insight and therapy

The PCEye Mini supports Tobii's **Gaze Viewer** (See page 31). This can be used to record, replay and analyse eye movement data in a variety of simple, easy to understand formats, including screen images, videos of eye movement, gaze path visualisations, and heat maps showing areas of attention. This is an especially valuable tool for remedial teachers, therapists or anybody wanting to know more about a person's interests, vision and eye movement abilities.



Specifications

Size:	17 x 1.8 x 1.3cm
Weight:	59g
Interface:	USB 2.0 or higher
Requirements:	Windows 7, 8, 8.1 and 10 1 GHz dual core 2GB RAM, 60MB video RAM with pixel shader 2.0 or higher, 450MB free space
Working Distance:	45 - 85cm
Head Movement:	(Width x height at 80cm distance)
Box:	35 x 35cm
Gaze Data Rate:	60 Hz
Processing:	On-board, relieves PC of doing so
Access:	Dwell, Blink & Switch
Screen Sizes:	Up to 19" optimal
Method:	Bright & Dark Pupil, Single or Binocular
Warranty:	2 years, Optional TD Care package for 1, 2 or 3 years unlimited damage / free replacement cover.

eye control technology

PCEye Plus

Eye tracking, dictation, switch access and Infrared in one product!

The PCEye Plus replaces a standard keyboard and mouse, allowing you to navigate and control your laptop or desktop computer using only your eyes. These solutions empower you to create the most efficient computer interaction available.

Able to track more than 99% of individuals, wearing glasses or contacts, it supports multiple user profiles and attaches to your monitor or laptop with magnetic strips, so it's easy to move the tracker between different users or locations.

The PCEye Plus lets you surf the web, connect with friends online, play games, Skype, turn on the lights or TV, and even make spreadsheets and documents using only your eyes. The "Access" product option includes the new PCEye Plus eye tracker, the next generation Windows Control software, which gives you access to everything others can do with a mouse and keyboard, as well as the EyeR dongle (including Virtual Remote software).



Optional Remote control

With the EyeR dongle, the PCEye Plus can also control your TV, Hifi, aircon or almost any other Infrared remote controlled appliance in your environment. The included Virtual Remote software allows you to edit the on-screen buttons - controlling your TV with your eyes in a way that is accessible for you!



PCEye Plus is compatible with **Communicator 5** for communication - see pg 56. Word prediction is available in English, Afrikaans, isiXhosa and isiZulu. With a range of voices to choose from, you'll be chatting again in no time. See page 52 for more info.

EyeMobile Plus for portability & Extra Volume

The EyeMobile Plus is a customised bracket to hold your eye tracker and tablet safely, and it includes a powerful integrated speaker so you'll always be heard! Includes a plate compatible with our mounting solutions, so it is easy to place perfectly, and also includes two switch ports, a USB 2 and Micro USB 3 port. It can hold any tablet 26.5 - 31cm W x 18.5 - 20.5 H x 0.8 - 1cm D. Bracket weighs 670g.



Choose the Bundle that's right for you!

Whether you need basic control for early skills games, or full control of your entire Windows environment, there is a package to meet your needs. Information on each of the titles included in these bundles is available in this section. The EyeR infrared dongle can be added to these packs.

GazePoint Control Windows Control Classic Gaze Interaction

EyeR Dongle for Infrared Control

Add this to any bundle below

Plus Access: Windows Control

⊗ ⊙ ⊗

Plus Track & Learn: with Gaze Viewer

⊙ ⊗ ⊗

Plus with Look 2 Learn

⊙ ⊗ ⊗

Plus with Sensory EyeFX

⊙ ⊗ ⊗

Plus with Inclusive Learning Curve

⊙ ⊗ ⊗

Specifications

Size: 32.2 x 2.2 x 1.38cm
Weight: 280g
Interface: USB 2.0 or higher
Requirements: Windows 7 64bit, 8.1 and 10
 2 GHz dual core
 4 GB RAM, 60MB video RAM, 450MB free space
Working Distance: 50 - 95cm
Head Movement: (Width x height at 90cm distance)
Box: 40 x 40cm
Gaze Data Rate: 60 Hz
Processing: On-board, relieves PC of doing so
Access: Dwell, Blink & Switch & Voice
Screen Sizes: Up to 27" optimal at 65cm from user
Method: Bright & Dark Pupil, Single or Binocular
Warranty: 2 years. Optional **TD Care** package for 1, 2 or 3 years unlimited damage / free replacement cover.

eye control technology

EyeTech TM5 Mini

An eye tracker with excellent features for Windows control and independence

TM5 MINI



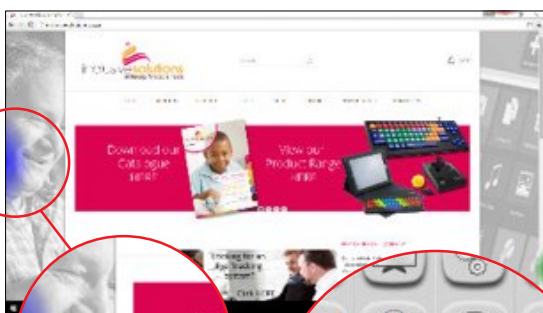
The TM5 Mini is an accurate, reliable tracker which can be used for introductory games, as well as full Windows control. The TM5 is compatible with the Grid 3 communication software, so it is a great choice for people who need an AAC (Augmentative & Alternative Communication) solution.

The TM5 includes excellent software for users who want full access to everything on their computer, for working, writing, reading, browsing, music control etc. and it is presented in a very user-friendly interface. It is also a good choice for some people taking muscle relaxant medication which may dilate their pupils.

Familiar tools help you get started right away

The TM5 includes Quick Access software, which provides all the Windows control options you could want, and most people who are familiar with using Windows will find the menus simple to navigate. Whilst it is easy to understand, the software also provides many options, so you can really customise your control to work as you want it to.

Colour-coded hot-spots located off-screen provide convenient, discreet access to tools such as a quick re-calibration to adjust your accuracy, file and window management, independently adjusting the speed of your clicking, and a self-facing camera view to check whether your eyes are well positioned for best use. Just look off-screen near the coloured hot spot and your toolbox will appear.



Multiple coloured hot-spots around the screen expand to show eye control tools

Easy to mount on your computer of choice

Whether you'd like a large monitor or a small tablet, the neat size of the TM5 makes it easy to mount onto most devices. It is attached using a strong magnetic strip which sticks on below your computer screen, or can be screwed into a mounting plate for extra robustness.



Grid 3
Great for use with Grid 3 for communication!
See pg 53

Specifications

Size:	25.4 x 2.6 x 3.2cm
Weight:	210g
Interface:	USB 2.0, Power draw 3-4W
Requirements:	Windows 7, 8, 8.1 and 10
Working Distance:	40 - 75cm
Head Movement Box:	(Width x height x depth) 31.5 x 22.5 x 35cm
Gaze Data Rate:	48 Hz
Processing:	On-board, relieves PC of doing so
Access:	Dwell, Blink & Switches
Screen Sizes:	Up to 22"
Method:	Dark Pupil, Single or Binocular



eye control technology

ALEA Intelligaze

An eye tracker to grow with you from Beginner to Super-User



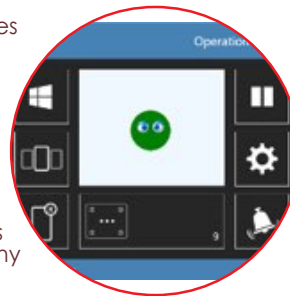
The ALEA Intelligaze offers top quality eye tracking and an impressive range of software options. It is suitable for introductory games and is compatible with quality communication software. A key feature distinguishing the Intelligaze from other trackers is its flexible range of software tools and licenses for people wanting to get the most out of their system.

Extensive software tools included



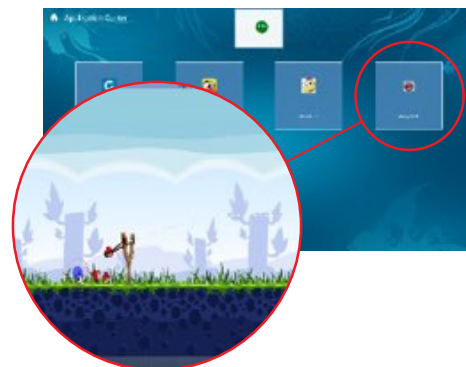
The Intelligaze software includes a keyboard which can speak aloud what is typed, in a synthesised voice of your choice. This can provide an economical way of achieving speech output, if more sophisticated communication software is not required. The user can create and edit a phrase library for convenient access to a personalised bank of frequently used sentences.

The Intelligaze software includes an Operation Centre, where advanced users can independently calibrate, browse through apps, change settings like their 'dwell' (click time) and check their position relative to the tracker. Application-aware menu's optimise which on-screen tools are presented to the user at any time, making the experience efficient, supportive and slick.



Excellent accuracy can be achieved with the automatic interactive magnifier. By selecting the direction of cursor movement, you can reach targets, at your own pace, with pixel precision when you want to.

A 'safe mode' is available to limit which applications are open to the user. This provides a degree of independence for the user to switch between games & communication, but not to navigate around the computer, for example.



License Versions to Meet Your Needs

The ALEA Intelligaze offers flexible licensing options. For beginners, the 'Engage' version provides basic cause & effect or early mouse movement games. If the user progresses to using communication software, the license can be upgraded to the 'Communicate' version to allow control of Grid 3 communication software - see pg 53. If full access to the entire Windows desktop is required, you can upgrade to the 'Control' version. This provides an affordable way to ensure that only the necessary tools are available.

Engage Communicate Control

	Engage	Communicate	Control
Basic Mouse Games, Left Click Only	✓	✓	✓
Use with Grid 3 for Communication	✗	✓	✓
Full Windows Control, Intelligaze Keyboard & Tools	✗	✗	✓

Visual Analysis Tools Included

No other eye tracker includes this helpful range of mini visual tests. The Gaze Assistant tool provides a series of tests for insight into the visual abilities of the user. Tests include targeting skills, fixation ability, field of view, and blink speed, which are compiled into report. These can assist when designing communication interfaces, and knowing where to place relevant targets.



Specifications

Size:	28.5 x 4.4 x 3.8cm
Weight:	280g
Interface:	USB 2.0
Requirements:	Windows 7, 8, 8.1 or 10 (recommended) Intel Core i3, Atom Cedarview or Higher 2GB RAM
Working Distance:	50 - 75cm
Head Movement:	(Width x height x depth at 62cm distance)
Box:	32 x 20 x 25cm
Gaze Data Rate:	40 Hz
Processing:	Hosted by PC. CPU Load < 5% on Core I5
Access:	Dwell, Switch & Blink
Screen Sizes:	12" - 19" optimal
Method:	Dark Pupil, Single or Binocular

