

EyeImPro by New Vision World

Model: NVW-N1202B



User Manual

Ver. 3.0

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1. Warnings and Symbols

Please read this manual carefully before using the device.

Device Ratings



Safety II degree product



Type B equipment



Indoor use only

Caution

1. Please use AC110V-220V (~50-60Hz) power source with the enclosed dedicated power adaptor.
2. Do not disassemble the device. Opening the device may damage it and will void the warranty.
3. Turn off the power supply if not using the device.
4. In the event of thunderstorms, plug out the power and signal chords to avoid damaging the device.

2. Introduction

EyeImPro is based on the theory of Binocular Imaging and Tripartite Interaction in Vision, using a TFT non-radiation LED screen to display guiding objects. The guiding objects movement back and forth at the changing angle enables the relaxation and contraction of the eye pupil. It improves the eyes' binocular vision and stereo vision, which can help to treat myopia, hyperopia and strabismus.

By looking at colorful rhythm of animation and pictures, the fully colored light increases eyesight training by providing visual stimulation in the retina. It gradually inhibits the center fixation point of amblyopia through the repeated stimulation by a specific wavelength of red light visual training, which can help with amblyopia.

General description:

The **EyeimPro** is unique **Eye training device**, which works on the physicality of the eye lens, and the muscles around it to correctly view objects that are close and far away.

This achieves by state of the art device, which designed as a multimedia player via a binocular.

The Binocular has two LCD's, one for each eye. The image is presented on both LCD's, while the distance of the LCD's from the watching Eyes are changing constantly from close view to far view.

With the use of the device's front Binocular lenses, its emulate a real change in the object distance, which stimulate the eyes to change its shape to compensate on the distance change.

As a result, the Eye lens changes its shape to compensate on the change in distance to keep the image in focus.

Naturally, the Eye lenses are changing the shape constantly from a circle to flat to allow the image to fall on the eye retina. When the image is falling on the retina, the image is transferred to the brain with full focus. When the image falls in front of the retina, the image is out of focus or blare.

When looking at close objects, the Eye shape is more circle. This is due to muscles contraction.

When looking at far objects, the Eye shape is flatter. This is due to muscles relaxation.

The simple conclusion is that to have flat lenses for far looking, the muscles need to be relaxed and release the tension caused by continuous close looking at objects.

Nowadays, cause of all the close looking, of readings, electronic devices, kids are spending allot of time looking at close objects, which cause the Eye Lenses Muscles to be tensioned and constrained, and never let the eye muscles to relax.

The EyeimPro Eye training device force the eyes and its muscles to look at far objects and release the tension around the Eye lenses muscles.

This process is happening unconcernedly by the Eye muscles to change the lens shape to compensate different distances objects are being spotted.

3. Package Contents

Quick User's Guide manual
EyeimPro (R) personal Eye training device
Adjustable stand for multi angle views
Power supply
USB media storage
HDMI cable
Headphone
Eye chart board
Device's lenses cleaning soft cloth
Warranty card

4. Objective

This device aims to train people with:

- Myopia
- Amblyopia
- Hyperopia
- Strabismus

5. External Features

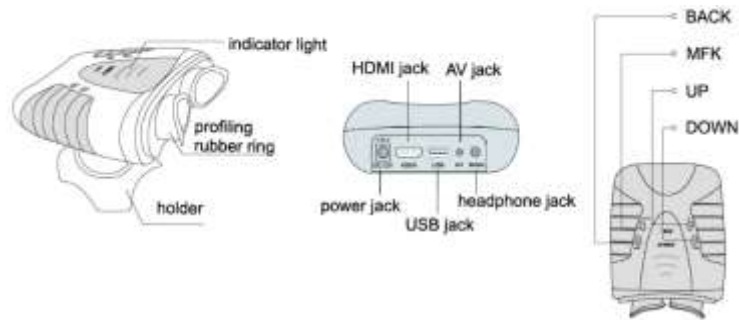


Figure 1.

6. Setting Up the Device

- Please read carefully the instructions and the statements before assembling or using the device.
- Connect the **Adjustable stand** to the **EyeimPro device** as shown in figures 1
- Assemble the stand to the device body: insert 4 hooks of stand into the hole in the bottom of the body. Push forward until you hear 'click'. Pushing the button in the opposite way disassembles the stand.
- Make sure to locate the device at the right height and distance from prospect head and body in order to avoid any pressure on the body back and neck during the training session, which would result in a comfortable and relaxing use.
- Height can be well adjusted by using a suitable chair and table size or adjust the height by adding an object such as a book, hard wood plate or box, to adjust the location and position of the device.
- Connect power adaptor jack to the DC socket in the device body and plug it into a power source outlet.
- Connect one of HDMI/AV/USB to a video signal source. USB storage device can contain image files, or video files. If video source is HDMI or AV - Turn on the HDMI/AV signal source.
- Turn on the device. A blue indicator light shows that the device is powered up. Long press the ON/OFF button to start device operation.
- The EyeimPro (R) personal Eye training device is ready to be setup.

7. Using the Device

After setting up the device, move your eyes closely to the binocular viewport to watch the moving images. When the image moves farther and become blurry, watch every detail of the picture carefully.

Recommended usages frequency is three times a day, 15-30 minutes per training session, with at least one-hour break between sessions. In cases where eyes are stressed often, one can increase the training frequency according to personal conditions or take the training shortly after looking at short distance objects for a while.

Attention! If you cannot see a single image (seeing double) with the device, it is strongly recommended to see an eye doctor to test for anisopia or stereo vision disorder.

8. Operating the Device

Top Operational Buttons

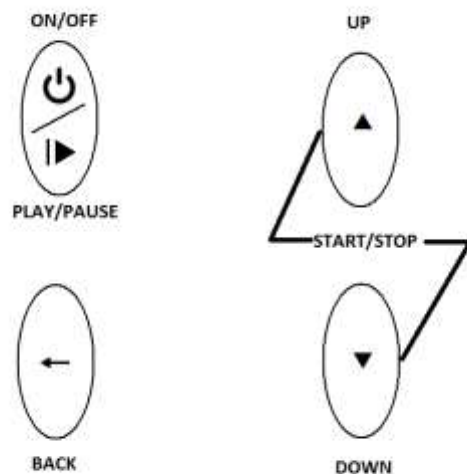


Figure 2.

1. Turning the device ON and OFF

1. To Turn **ON** the device, Press the **ON/OFF** button for 3 seconds or more.
2. The device would turn on and present the welcome page.
3. Press both **UP and Down** buttons simultaneously for 3 seconds or more to stop the LCD's movement when the home page image is in focus. (Later to restart the LCD's movement, Press both UP and Down buttons for 3 second or more)
4. Press any button to continue
This would show the main menu, which has 6 ICONS
PICS, Videos, TXT, Files, which would play the related files from the USB storage, if USB storage is connected, and related files are stored.
Settings, which would lead to a setting screen (**Language, Volume, Brightness, Contrast, Color, Moving Speed, Distance, Myopia, Power off** and **Reset**).
Channel, which would lead to select media input screen (**Spot, USB, HDMI, AV**)
 - To **turn off** the device press the **ON/OFF** button for 3 seconds, while the device is ON.

2. Setting up the device before operation:

1. From **main menu** select **settings** by pressing the **ON/OFF** button momentary (Short press).
Note: Remember, if you press this **ON/OFF** button too long (3 seconds or more), the device would be turned off.
2. Use the **UP** and **Down** buttons to Roll the menu to **Myopia** Tolerance (Default is **201-400**)
3. Press the **ON/OFF** button momentary to Select the user's Myopia tolerance from 3 options **0-200, 201-400, 401-600**
Use the **UP** and **Down** buttons to move between the options
Use the **ON/OFF** to confirm the selection
Use the **Back** button to return to **Main Menu**
4. Adjust other settings if needed. Default settings are good to start the Eye training session, but users are free to select other settings as preferred.

3. Choose the media playing input source:

I. USB Storage

1. Upload text, photos, and videos to a USB storage device from your Computer, Laptop, tablet, or other sources.
2. Plug in the **USB storage device** to the USB connector at the rear end of the Device.
3. From **main menu** select the type of files to play (TXT, Photos, Videos or view all files) by pressing the **ON/OFF** button momentarily.

A list of files to play would be displayed.

4. Press the **ON/OFF** Button to start playing the selected files.

TXT – Selected file would be displayed

If more than one page in the text file, use the **Up** and **Down** buttons to move to the next or previous page respectively.

- To return to files list view press the **Back** button

Pics – All files would be played one by one (Slideshow).

To stop the Photos slideshow, press the **Play / Stop** momentarily

To restart the Photos slideshow, press the **Play / Stop** momentarily

- To return to files list view press the **Back** button

Videos – All files would be played one by one

To pause the video play, press the **Play / Stop** momentarily

To continue the video play, press the **Play / Stop** momentarily

During video playing, press the **UP** or **Down** buttons momentarily to increase and decrease the speaker's volume respectively.

Press the **UP** or **Down** for 3 seconds to **Fast forward** the video, or to **Fast Backward** the video respectively.

- To return to files list view press the **Back** button

Now you can **Start** the **Eyeimpro** Eye training session by pressing both **UP and Down** buttons simultaneously for 3 seconds. This would restart the LCD's movement for close and far view.

The LCD's would start changing the image distance, and the Eye training would begin.

The device would be turned off after the defined **Power off** time is reached (Defaults 30 minutes)

II. HDMI Input

Connect HDMI source to the Device's HDMI Input at the rear end of the device by using the provided cable. Use low resolution where possible, which otherwise may compromise with the image quality.

(The Device's LCD's pixel's resolution is 292PPI)

From Main menu select Channels by pressing the **ON/OFF** button

Use the **UP** and **Down** buttons to select HDMI and press the **ON/OFF** Button momentary

HDMI input source would be playing. Audio would be playing via the Device's speakers, or headphone if being used.

During video playing, press the **UP** or **Down** buttons momentary to increase and decrease the speaker's volume respectively.

If no HDMI source would be presented at the HDMI input, a Blue screen will be shown.

Now you can **Start** the Eyeimpro Eye training session by pressing both **UP and Down** buttons simultaneously for 3 seconds. This would restart the LCD's movement for close and far view.

The LCD's would start changing the image distance, and the Eye training would begin.

The device would be turned off after the defined **Power off** time is reached (Defaults 30 minutes)

III. AV Input

Connect AV source to the Device's AV Input at the rear end of the device by using the provided AV analog cable. Both NTSC and PAL signals are supported.

From Main menu select Channels by pressing the **ON/OFF** button

Use the **UP** and **Down** buttons to select AV and press the **ON/OFF** Button momentary

AV input source would be playing. Audio would be playing via the Device's speakers, or headphone if being used.

During video playing, press the **UP** or **Down** buttons momentary to increase and decrease the speaker's volume respectively.

If no AV source would be presented at the AV input, a Blue screen would be shown.

Now you can **Start** the **Eyeimpro** Eye training session by pressing both **UP and Down** buttons simultaneously for 3 seconds. This would restart the LCD's movement for close and far view.

The LCD's would start changing the image distance, and the Eye training would begin.

The device would be turned off after the defined **Power off** time is reached (Defaults 30 minutes)

IV. Spot programs

The spot program is playing a predefined scenario of a dot or more on a dark screen.

The spot program trains the Eye peripheral muscles, which are responsible for the Eye ball movement.

Fluent eye movement would help to release the muscular pressure or tension from the Eye peripheral muscles and would help to improve Eye movement and relaxation.

This input has few predefined dot scenarios.

From main menu, press the select channels by pressing **ON/OFF** button momentary

From Channels menu, select **Spots** by pressing the select channels by pressing **ON/OFF** button momentary.

To change sport program mode, press the UP and Down button momentary to select Spot mode respectively.

Now you can **Start** the **Eyeimpro** Eye training session by pressing both **UP and Down** buttons simultaneously for 3 seconds. This would restart the LCD's movement for close and far view.

The LCD's would start changing the image distance, and the Eye training would begin.

The device would be turned off after the defined **Power off** time is reached (Defaults 30 minutes)

- To end Spot operation, Press **Back** button to return to **Channels** menu

4 . Settings

The device has a predefined setting that are ready to go.

1. From **main menu** select **settings** by pressing the **ON/OFF** button momentary (Short press).

Note: Remember, if you press this **ON/OFF** button too long (3 seconds or more), the device would be turned off.

2. Use the **UP** and **Down** buttons to Roll the menu to the desired setting parameter
3. Press the **ON/OFF** button momentary to Select the setting parameter to update
4. Use the **UP** and **Down** buttons to move between the options
Use the **ON/OFF** to confirm the selection
Use the **Back** button to return to **Main Menu**

Settings options:

Language - English

Volume – Speakers and headphone volume adjustment from 1 and 10. Default value is 7

Brightness – LCD brightness adjustment from 1 to 10.

Contrast – LCD contrast adjustment from 1 to 10.

Color – Color saturation adjustment from 1 to 10.

Moving Speed – LCD's moving speed adjustment from 1 to 6. 6 is the fastest. Default is 3

Distance – Spot Distance adjustment from 58 to 78. Default value is 52

Myopia – Myopia tolerance adjustment from 3 options **0-200, 201-400, 401-600.**

Default is **201-400**

Power off- Device power of time adjustment from 5 minutes to 30 minutes. Default value is 30

Reset – Restore factory's default settings

9. Care and Maintenance

Keep the lens clear and clean with soft cloth.

It is recommended to clean the eye rubber ring once a week or as needed with 75% alcohol.

Use soft cloth to clean the device body.

Do not use rough objects or organic liquids.

10. Technical Specifications

- Power adaptor input: AC110V-220V~50-60Hz
- Power adaptor output: DC12V, 1.25A
- Power consumption: $\leq 15W$
- Audio Input: 3.5mm Stereo Jack
- Video Input: AV (PAL or NTSC)
HDMI.
USB storage device.
- Screen parameters:
Pixel: 292PPI
Brightness: 400cd/m²
Contrast: 900:1
Full Perspective.
- Speakers: 2 x 2W
- Distance of visual line: $\leq 70mm$
- Body tilt angle: $-10^{\circ} \sim 45^{\circ}$
- Operating temperature: $23^{\circ}F \sim 104^{\circ}F$ ($-5^{\circ}C \sim 40^{\circ}C$)
- Storage temperature: $-4^{\circ}F \sim 131^{\circ}F$ ($-20^{\circ}C \sim 55^{\circ}C$)

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