

# Ocutech VES® Mini

(Vision Enhancing System)

## Fitting Guide

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### 1. How to demonstrate the system:

The Ocutech VES® Mini is available in a demonstrator kit that uses a special adjustable frame. The kit can be ordered with one or two telescopes, though binocular demonstration is not recommended as the demonstrator frame mountings are not sturdy enough to maintain proper alignment. The two-telescope demonstrator kit is suggested as it allows for testing the system for either the right or left eye without having to disassemble the diagnostic telescope mounting.

When using the demonstrator frame, you can control the height of the telescope by raising and lowering the bridge piece. You can slide the telescope right and left to position the eyepiece directly above the pupil of the eye chosen to sight through the device. Confirm that the patient can see a full, round field through the telescope, and that the image is not cut-off to the right or left, or up or down. You may even want to allow the patient to slide the telescope slightly right or left themselves to position it best.

Once the position is finalized, remove the frame and measure the distance between the center of the eyepiece and the center of the bridge to determine the proper PD for ordering the telescope system.

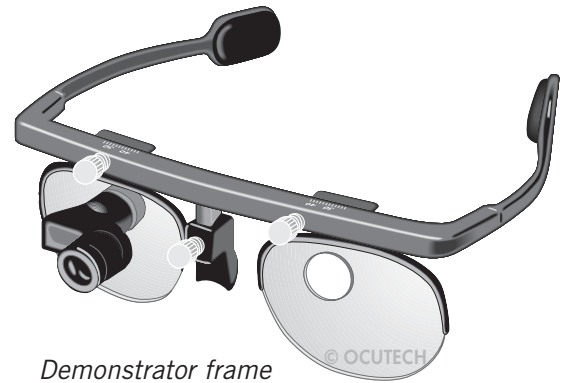
Focusing is accomplished by rotating the ring at the very front of the telescope. Patients occasionally try to turn the entire telescope to focus, rather than turning just the front ring. Warn them to NOT force the focus, as this may break the device. Do NOT use the PD markings on top of the demo frame.

### 2. Indoctrinating the patient:

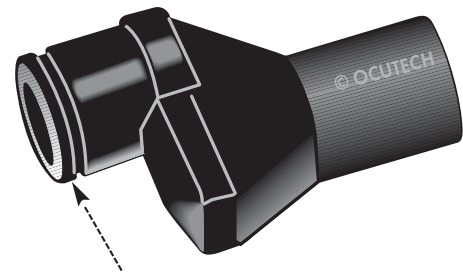
Once you have positioned the VES® Mini properly, have the patient switch their fixation in and out of the telescope eyepiece until they get comfortable with the action. Demonstrate how to focus the device for different distances.

Remind the patient that the VES® Mini enlarges images three times and as a result they should be able to see targets three times further away than with their “normal” vision. Because of the “tunnel vision” field of view, they will need to learn to switch their attention from the regular lens (to find the target), to the telescope eyepiece (to see the target). They should practice this until they become comfortable and proficient.

When looking at closer distances, they should be able to see print or items that are three times smaller than possible with their normal vision. Due to the shallow depth of field of telescopes at near, the patient can either move their head in and out to maintain clear vision at different distances or re-focus the device to maintain a clear image.



*Demonstrator frame  
with one telescope installed.*



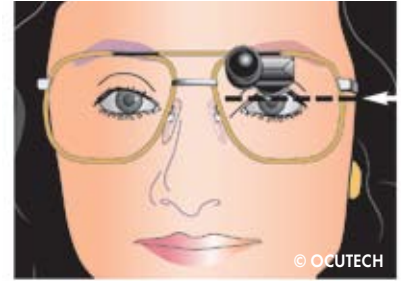
*Focusing Ring*

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## 3. Prescribing and ordering the patient's system:

The VES® Mini can be prescribed monocularly, binocularly and for distance or near. You must determine the proper eye (if a monocular order) to use the device, the proper size frame and temples (we suggest sturdy metal frames with adjustable nose pads and slightly longer temples for more holding power), and the appropriate carrier lens prescription for the eyeglasses (which can be either single vision or bifocal – we do not recommend trifocals or progressive lenses for use with this device). In high prescriptions, remember to use the smallest frame possible. The VES® Mini can accommodate correction of refractive errors between +12 and -12 diopters by simply focusing the telescope. Eyepiece corrections for higher refractive errors and for astigmatism are available by a special-order cap that fits over the back of the telescope eyepiece. Accessories include lens caps for the front of the telescope that can hold either filters or reading cap powers and slip-behind sunfilters in several colors. Reading caps should be considered if closer working distances are required than that provided solely by focusing the telescope itself.



*The bottom of the eyepiece should be positioned at the top of the pupil*

## 4. Determining the proper positioning of the VES® Mini:

The bottom of the eyepiece should be positioned to line up at the top of the pupil or the bottom of the upper lid, whichever is lower.

The telescope should be angled upward, so that when the patient dips their head down to sight through the telescope their line of sight is parallel to and directly through the telescope. The higher the telescope sits on the head, the greater the downward tilt of the head will be required to sight through the telescope, and the greater the upward angle of the telescope must be. Try to fit the telescope as low as possible to minimize the angle.

For distance use, the telescope is positioned at the user's monocular pupillary distance (PD) and usually inclined upward 10 degrees. The centers of the telescope eyepiece(s) are usually positioned 10mm below the top of the eyeglass lens.

For near, the telescopes are positioned at the monocular near PD for binocular systems. Several methods are available to determine an accurate near PD measurement. For binocular systems, a near working distance must be provided so that the convergence of the two telescopes can be preset. If a monocular near device is prescribed, no convergence is required. Near telescopes are usually inclined downward 18 degrees. The centers of near telescopes are usually positioned 15 mm above the bottom of the eyeglass lens.

To confirm proper positioning and to specify positioning other than the standards described above, we recommend that you mark the location of the pupil on each carrier lens.



*The telescope is positioned at an upward angle so the user can view normally beneath it*



*Simply drop the head and look into the eyepiece to sight through the telescope*

Use the step-by-step ordering form to insure that you have answered all questions, and feel free to call Ocutech consultations for support.

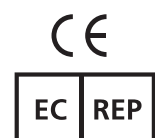
**OCUTECH**® Vision Enhancing Systems

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