

VOLK® PICTOR⁺ PLUS

Quick start guide



1. Arrow up
 - Focus manually
 - Move fixation target
2. Arrow left
 - Decrease Brightness
 - Move fixation target
3. Arrow right
 - Increase Brightness
 - Move fixation target
4. Arrow down
 - Focus manually
 - Move fixation target
5. Middle key
 - Long: New patient folder
6. Left softkey
 - Short: Target low/high/off
 - Long: Power On/Off
7. Right softkey
 - Short: Manual/AF Assist/Auto
 - Long: Menu
8. Power LED
9. Connection LED
10. Reset button
11. Release button
 - Slide button to release optics
12. Shutter button
 - Press button to the first position to focus if using autofocus or AF Assist.
 - Press button to the second position to take a picture.
 - If using AF Assist, the image is taken automatically when aim help circle has turned green.
 - To capture video hold shutter button in the second position.

Step
1

Power on and attach optics module

Insert the battery and let it charge in the cradle for 1 - 2 hours prior to first use. The camera is powered on by pressing the left key. Attach the optics module by aligning the bayonet legs of the module with the holes on the handset and pressing firmly until it clicks into place. Detach the module by sliding the release button.

Step
2

Preparation

Examination room should be as dark as possible. Both patient and examiner should be seated during examination. It is also possible to capture images with the patient lying down. If white light is used for image capture, inform patient to expect a flash when the image is captured.

Step
3

Choose focus mode

There are three focus modes: Manual, Autofocus and AF assist. Focus mode is changed using the right key.

Manual focus is the easiest mode to be used by an inexperienced user and for uncooperative patients. If the patient has a refractive error, focus must be adjusted. A diopter scale is visible on the right side of the screen. Use the up and down keys to adjust the diopter value to match the refractive error.

If Autofocus is selected, diopter adjustment is not needed as the camera will focus according to the patient's refractive error.

AF Assist mode enables fully automated imaging, but works best with cooperative patients. When shutter button is initially pressed, camera will start focusing once retina is in view and will shoot when the aim help circle has turned green.

Step
4

Other camera settings

White or infrared light is used during image capture. Light is adjusted using left and right arrow keys up to a maximum brightness setting of 10. Default value is 5. Suitable illumination is 4 - 5 for patients with light eyes and 6 - 8 for darker eyes.

The camera has 9 internal fixation targets. Activate with the left key. Move the target using the arrow keys. To achieve macula centered image, select the middle target. To achieve disc centered image, select either right or left target depending on which eye is being imaged.

Step
5

Approach the eye, target and shoot

Start approaching the eye with the pupil center screen until you spot the reflection from the fundus. Using infrared targeting light, the retina is gray colored.

Always use both hands to stabilize and control the camera, with your front hand stabilized on the patient's forehead. This hand should make small adjustments to the camera to maintain the pupil center screen when targeting. The patient must remain still throughout the examination.

Attain retinal image by slowly moving the camera closer to the eye, maintaining the pupil in center screen. Close in until retina appears fully in the screen with no corneal reflections. Correct distance is approximately 1 - 2cm from the surface of the eye. If using the silicone support cup, it should be compressed half way down.

Aim help feature indicates when the retinal view is sufficient for taking an image. If the circle is red, the retina is not sufficiently observed for a good image. An image is taken when the circle appears green.

Capture image by pressing the shutter button. If the circle is green, the aim is good and the image should be taken. Capture image by fully pressing the shutter button. If AF assist mode is used, the image is taken automatically when the circle turns green.



Step
6

Transfer and view images

Images are transferred to the PC via Wi-Fi or when the camera is placed in the cradle, connected to the PC via USB port.

NOTE - Always store the device with the battery fully charged. If device is not used for more than a month, it is recommended to be stored without a battery.

