NON-MYDRIATIC AUTO FUNDUS CAMERA
AFC-330

Frequently asked Questions

Q - How easy is the AFC-330 to use?

A - The fully automated system allows anyone to capture great images with limited training. Auto alignment, auto tracking, auto focus and auto capture ensure very easy image acquisition. It can also be used in manual mode or situations where image capture may prove difficult.

Q - Can the image be taken with the room lights on?

A - Yes, the image can be taken with the room lights on, however as the patient's pupil will be naturally larger in the dark, it would be easier to take the image with the room lights off.

Q - What is Navis Ex?

A - Navis-Ex is an image filing software which is used with the AFC-330.

Q - How do I save the images once they have been taken?

A - Images are captured and saved, and normally are then transferred either into NAVIS-EX or practice management software. They can be transferred onto a USB or external HDD if desired.

Q - How many images can the AFC-330 save?

A - The device can temporarily save a maximum of 50 images. When any additional images are captured the oldest image deletes.

Q - Why has the AFC-330 touchscreen turned dark?

A - The AFC-330 goes into sleep mode when it is not been used. To restore the device from sleep mode, press any button or move the joystick.

Q - Why is there an extra headrest?

A - This is called a 'spacer' and can be attached to the forehead rest when capturing Anterior Eye Photos.

Q - How do I know which eye has been captured?

A - There is a captured eye indicator which detects R or L. These icons are blue.

Q - How do I Know if the patient is opening their eyes wide enough?

A - There is a an eyelid detection icon. Ask the Px to hold their eyelid up and held against the brow (or you can if Px agrees).

Q - What does this icon indicate on the AFC-330 touchscreen?

A - This indicates the chin rest has reached its maximum or minimum height.
Adjust the chinrest and the table for better Px positioning.

Q - When I push the AFC-330 towards the patient, the AFC-330 stops.
A - This can happen if the lock is on (shown by number 5 below).

[Operation panel]

1. Observation illumination intensity knob   3. Anterior eye/fundus observation toggle button   4. Focus knob
5. Locking knob
2. Chinrest up/down buttons
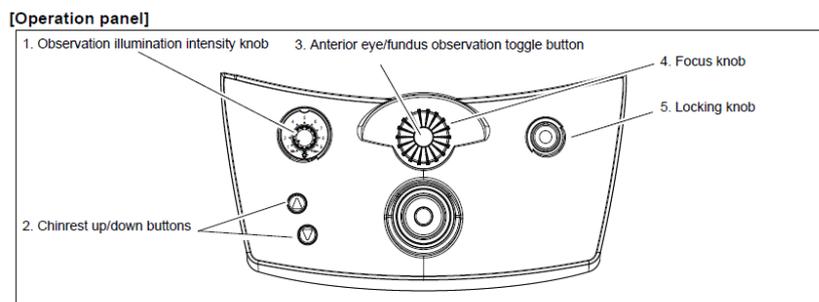
Q - Why does the eyelid & eyelash marker disappear?
A - Press the 3rd button on the left side of the AFC330 screen to activate / deactivate.
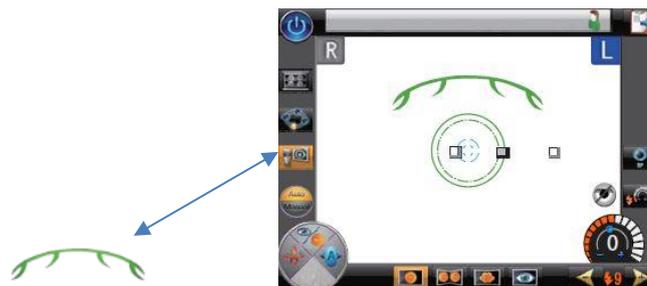
Q - The AFC-330 does not automatically focus / track / move into the fundus screen.
A - Make sure the auto focus / track / move into the fundus buttons are lit.
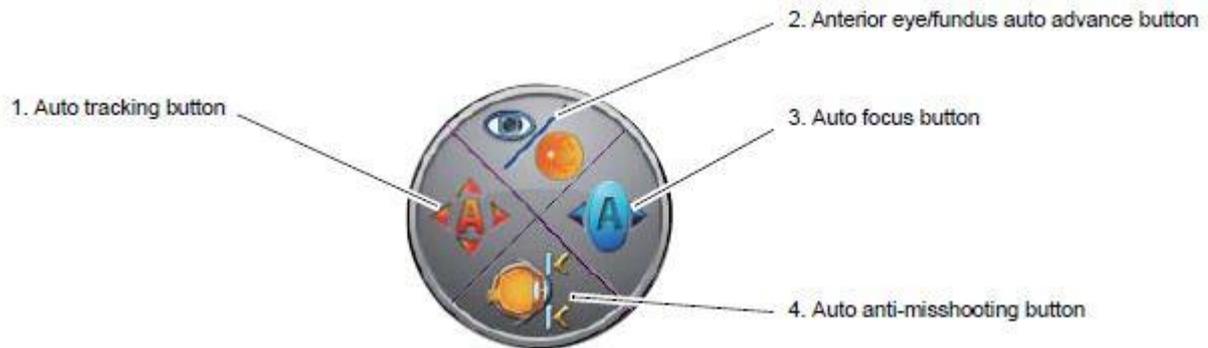
Q - Does the auto focus work with patients with Cataracts?
A - The auto focus may not be activated for certain eyes such as those with cataract, or high myopia or hyperopia that causes refractive error outside the range of -12D and +15D.
In such cases use the compensation lens or manual mode.

Q – When do I need to use the compensation lens?
A - The compensation lens is the black paddle located at the RHS of the AFC-330.
The AFC-330 will prompt you to '*switch to either a plus or minus compensation lens*' if it requires any additional focussing power, usually for higher Rx.

- If pulled out by one notch → MINUS
- If pulled out fully → PLUS

The device will always display a prompt message when required.
Ensure the compensation is reset back into the device when complete.

'ALWAYS RE-SET TO ITS ORIGINAL POSITION'

Q - The internal fixation lamp is blurred.
A - The compensation lens may be inserted. Remove the lens by pushing the compensation lens select lever to the deepest position (0 position).

Q - How do I know when I am in the correct position to capture the fundus image?

A - There is a target marker. This indicates if alignment has been detected.

 : Alignment condition is not detected.

 : Alignment condition is detected.

Q - How can I track where the patient is looking?

A - There is an anterior eye monitor inset into the observation screen. The Px should always be looking towards the internal green dot fixation target.
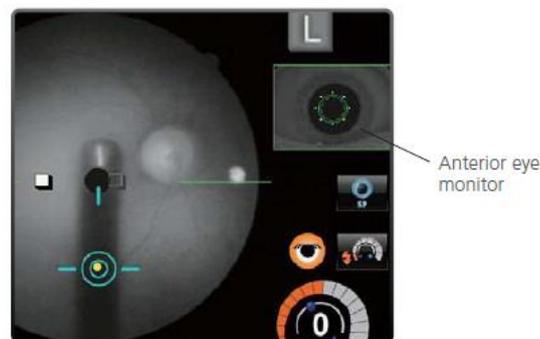
Q - Why do red arrows appear on the AFC-330 screen?

A - The red arrows indicate you need to move forward,back,left or right to allow auto aligment to take place. Move the device accordingly.

Q - What level should the flash be set to?

A - The recommended flash intensity is between 7 and 9.
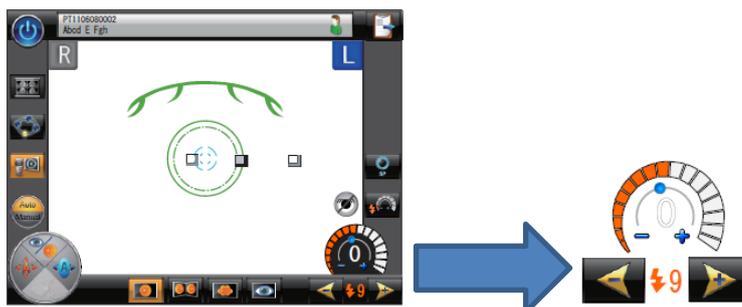
Q – Why do the images appear dark when the Px has a smaller pupil?
A – Images can appear dark if not enough light gets into the eye.
The two green rings indicate how big the pupils need to be to obtain a good image.
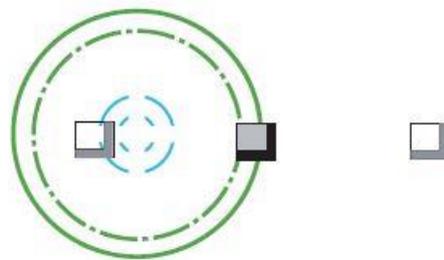
Ideally the pupil should be as large as the outer green ring, or as large as the inner ring if using 'small pupil' mode. Use the 'small pupil' button on the RHS on the AFC-330

touchscreen to obtain a better image for smaller pupil.

Q - Why do red dashes appear in between capturing the RE image and the LE image?
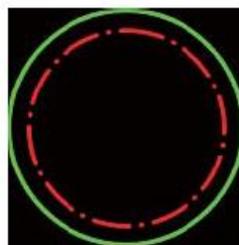
Full interval time remaining | 6/10 interval time remaining | 2/10 interval time remaining
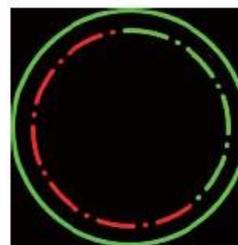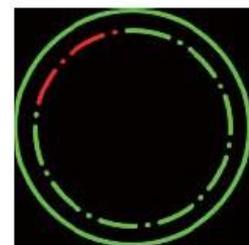
A - These are image capture interval indicators.
This time allows the patients eye to recover from pupil constriction after the flash.

The minimum pupil diameter mark turns from red to green as time passes.
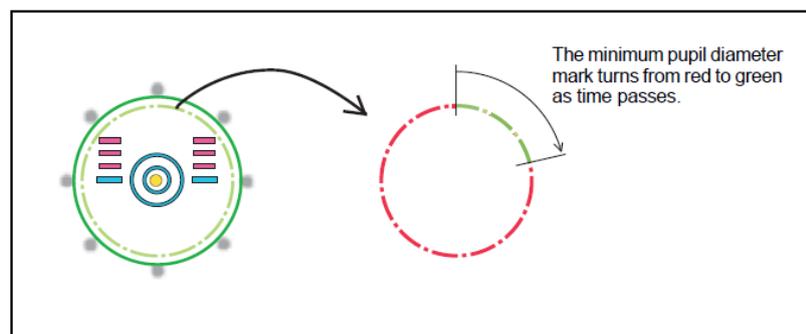
Q – The image on the AFC-330 touchscreen is very dark and I cant see the fundus image.

A – The observation illumination intensity is set incorrectly. It should be set to approximately '*2*' – check and adjust if necessary (shown by number 1 below).
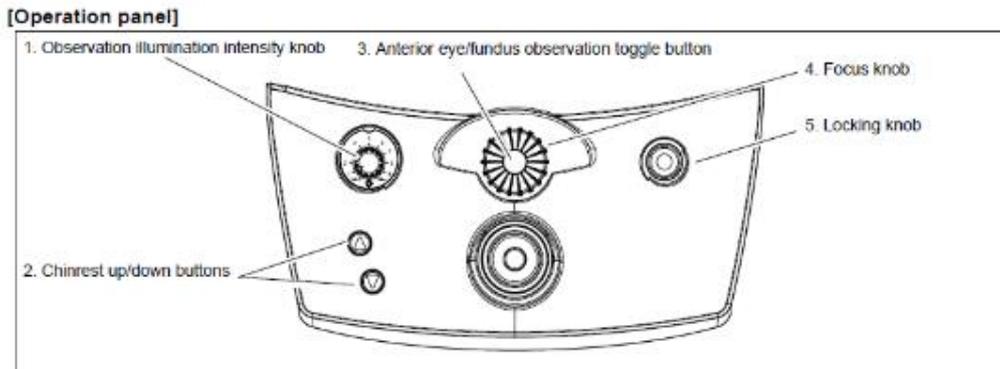
Q - Why is there 4 different capture buttons on the camera?

A - If the background is orange it is active.

1) Standard fundus image capture.
2) Stereo image capture (*NB. additional stereo viewer required*).
3) Panoramic images capture (*NB. NAVIS-EX requiredfor composition*).
4) Anterior Eye image capture.
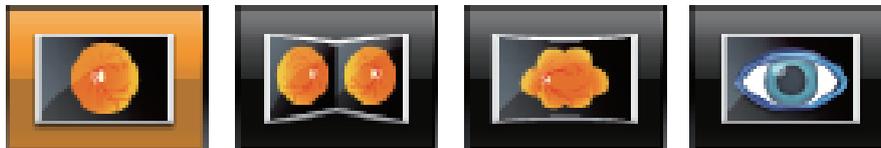
Q – How do I take an anterior eye image?

A – When switching into anterior mode the AFC-330 will prompt you to '*switch to +ve compensation lens*'. Capture in anterior mode is simply positioning where you wish to capture the image and focusing by eye. It may take a couple of attempts to obtain the correct focus for the desired image.

Q - Can I view a more magnified image on the AFC-330 screen?

A – Yes, this can be achieved by pressing the button. Alternatively, viewing the images within the NAVIS-EX software is easier and has more options.

Q - How can I view 2 images on the screen?

A - Select 'DUAL IMAGE' button.

This is used to display both images together when 2 thumbnails are selected. Alternatively, viewing the images within the NAVIS-EX software is easier and has more options.

Q - If multiple images can have been captured, how can I view them all?

A - Using the scoll bars on the AFC-330 screen (shown below) will allow multiple images to be viewed, or by rotating the joystick R or L.
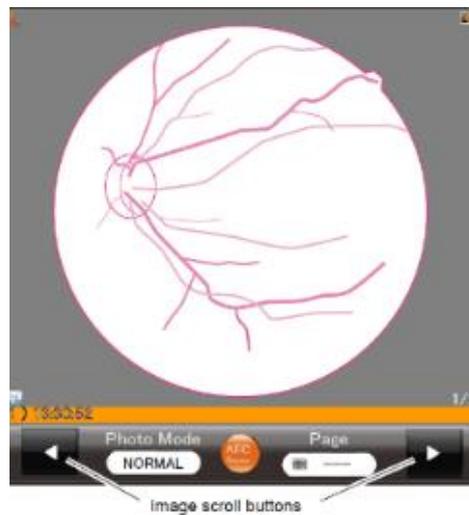
Q - Is it easy to manually focus the AFC330 on the fundus?

A - The focus split indicator shows the amount of focus deviation on the AFC-330 observation screen. Use the focus wheel to align the focus split indicator.
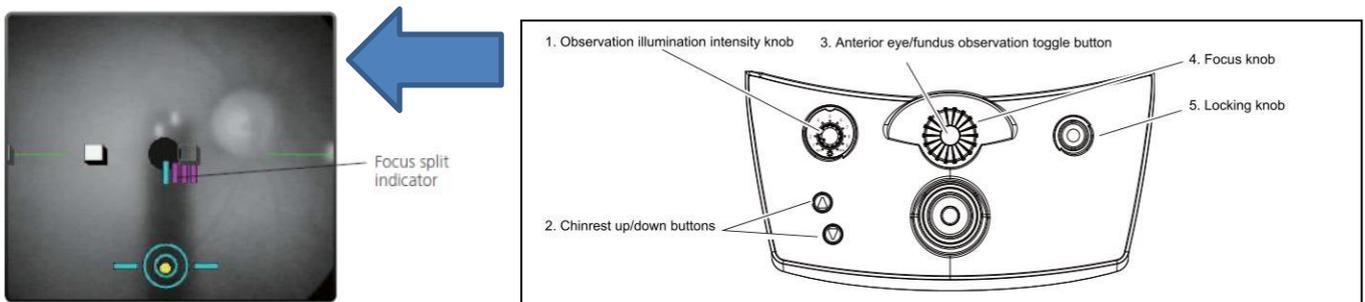
Q - What is the best way to clean the lens?

A – Remove any debris by using the puffer provided and use a dry microfibre cloth for any smears on the objective lens.

1) On the LHS on the AFC-330 base is the infrared filter level. Pull this out so visible light is now emitted. When the filter is removed, the message '*would you like to clean the objective lens?*' appears on the AFC-330 screen.
2) Press '*YES*'.
3) The message '*Please set the observation illumination to min*' appears.
4) Set the illumination to zero by turning the observation illumination intensity knob.
5) Press OK
6) The message '*Please clean the objective lens while adjusting the light intensity. Please place the infra-red filter back after cleaning*' appears.
7) Clean the objective lens with a clean microfibre cloth.
8) Set the observation illumination intensity back to '*2*'.
9) Reset the IR filter back into its original position.
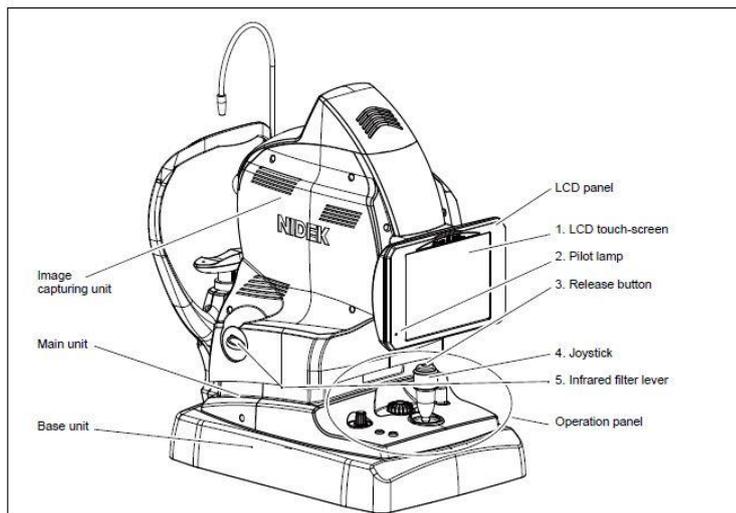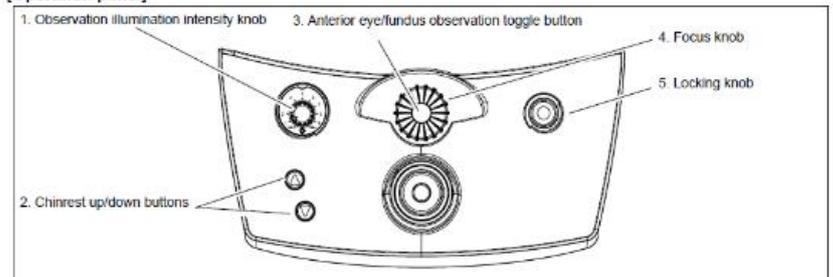
Q - What is the best method of switching OFF or reboot?

A – The AFC-330 must be shut down like a computer. Press the blue button at the top left of the screen . It will go through a shutdown process as shown below:

Would you like to shut down the system?

YES   NO

Shut down confirmation message

About 20 seconds

Software shutdown screen

Please turn off power.

Shut down complete message
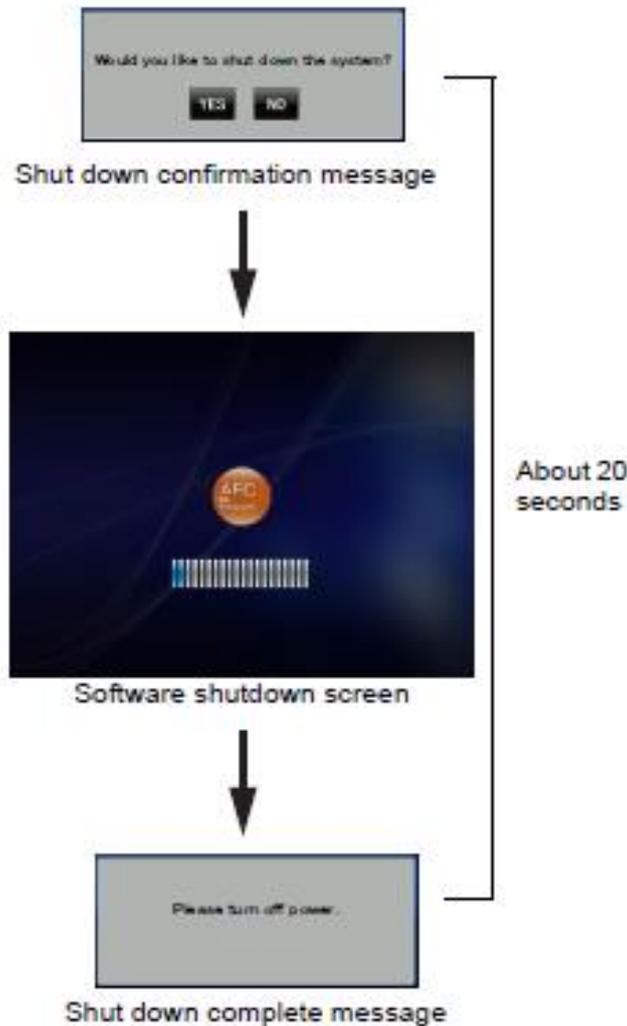
Once complete switch off the device, put on the lens cap and dust cover.

'ALWAYS SHUT DOWN THE AFC-330 BEFORE SWITCHING OFF'