Five Automated Functions for Enhanced Ease-of-Use

The AFC-330 adds auto print / export to four automated functions from its predecessor, the AFC-230 / 210.

With five automated functions - 3-D auto tracking, auto focus, auto switching from anterior eye to fundus, auto shot, and auto print / export - the AFC-330 enables seamless photography from start to finish. The AFC-330 enhances ease-of-use and ensures high quality clinical photography.

### AFC-330 Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
<td>Non-mydriatic fundus camera</td>
</tr>
<tr>
<td><strong>Angle of view</strong></td>
<td>45º (33º in small pupil photography mode)</td>
</tr>
<tr>
<td><strong>Working distance</strong></td>
<td>45.7 mm (from objective lens to cornea)</td>
</tr>
<tr>
<td><strong>Minimum pupil diameter</strong></td>
<td>ø4.0 mm (ø3.3 mm in small pupil photography mode)</td>
</tr>
<tr>
<td><strong>Dioptric compensation for patient's eyes</strong></td>
<td>-33 to +35 D   total</td>
</tr>
<tr>
<td><strong>Focusing method</strong></td>
<td>Infrared focus split alignment</td>
</tr>
<tr>
<td><strong>Light source</strong></td>
<td>Halogen lamp 12 V 50 W, Xenon flash lamp 300 Ws</td>
</tr>
<tr>
<td><strong>Flash intensity</strong></td>
<td>17 levels from F1 (F4.0 +0.8 EV) to F17 (F16 +0.8 EV)</td>
</tr>
<tr>
<td><strong>Internal fixation target</strong></td>
<td>LED (maximum 9 points)</td>
</tr>
<tr>
<td><strong>External fixation target</strong></td>
<td>Free-arm (optional)</td>
</tr>
<tr>
<td><strong>Horizontal movement</strong></td>
<td>40 mm (back and forth)</td>
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<tr>
<td><strong>Vertical movement</strong></td>
<td>85 mm (left and right)</td>
</tr>
<tr>
<td><strong>Chinrest movement</strong></td>
<td>32 mm</td>
</tr>
<tr>
<td><strong>Auto tracking / Auto shot</strong></td>
<td>X-Y-Z direction</td>
</tr>
<tr>
<td><strong>Camera</strong></td>
<td>Built-in 12-megapixel CCD camera</td>
</tr>
<tr>
<td><strong>Display</strong></td>
<td>Tiltable 8.4-inch color LCD touch screen</td>
</tr>
<tr>
<td><strong>Interface</strong></td>
<td>LAN, USB 2.0</td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
<td>AC 100 to 240 V ± 10% 50 / 60 Hz 150 VA</td>
</tr>
<tr>
<td><strong>Power consumption</strong></td>
<td>316 (W) x 518 (D) x 579 (H) mm / 29 kg</td>
</tr>
<tr>
<td><strong>Dimensions / Mass</strong></td>
<td>12.4 (W) x 20.4 (D) x 22.8 (H) “ / 64 lbs.</td>
</tr>
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</table>

**Image Capture Interval Indicator**

The image capture interval indicator displays the lapsed time after a shot, which helps an operator wait for an eye to recover from pupil constriction. The interval time can be set from 1 to 10 minutes in 1 minute increments.

**Caution**

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The Smart Fundus Camera

What is the smart fundus camera? It is a camera that is sophisticated, technologically advanced, and user-friendly.

The AFC-330 speaks for itself.

The AFC-330 has a built-in camera and computer, automated photography functions, multiple data management utilities, and easy-to-use operator assist functions. These smart features make fundus photography easier for screening and diagnosis.

The AFC-330 has a built-in camera and computer in one compact unit without requiring an external camera and PC. It eliminates complicated assembly and wiring during installation and is virtually “ready to use out of the box”.

The built-in CCD camera has 10-megapixel resolution, producing high-quality fundus images. The built-in microcomputer enables data management including auto print/export.

This compact camera enhances the portability, space-saving, and efficiency of the practice.

Navigation of Stereo and Panorama Photography

The AFC-330 navigates stereo and panorama photography with target marks displayed on observation screen, which enables an operator to easily capture stereo images and the image series for a panorama composition*.

* Stereo image observation and panorama composition are available with the NAVIS-EX software.

Data Management Utilities

Images that are captured and associated with patient data are saved, transferred, and managed with a USB memory or an external PC connected to the NAVIS-EX network. NAVIS-EX is an image filing software, which networks the AFC-330 and other NIDEK fundus imaging devices, the F-10 and RS-3000 series.

Tiltable 8.4-inch Color LCD Touch Screen

The 8.4-inch color LCD touch screen displays windows with intuitive menus and icons for ease of use. An on-screen keyboard enables an operator to input patient data easily while displaying the workflow in the clinic.

Monitor and Indicator for Operator Assist

The anterior eye monitor inset in the fundus observation screen allows an operator to constantly verify alignment.

The focus split indicator shows the amount of focus deviation in the fundus observation screen, which helps an operator to manually focus the AFC-330 on the fundus.

Navigation of Stereo photography

Navigation of Panorama photography

Low Flash Intensity and Quiet Shutter Sound

The AFC-330 reduces flash intensity by 40% and sound of the shutter by 50% compared to its predecessor, the AFC-230 / 210, which enhances patient cooperation and enables seamless fundus photography.

Tiltable 8.4-inch Color LCD Touch Screen

The focus split indicator shows the amount of focus deviation in the fundus observation screen, which helps an operator to manually focus the AFC-330 on the fundus.

Input of patient information:
- Touch screen keyboard
- External PC with NAVIS-EX

Data storage:
- USB memory
- External printer* with USB connection

*Driver software needs to be installed for use of the USB memory and external printer.

Panorama

All in One with Built-in Camera and Computer

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The built-in camera and computer in one compact unit is virtually “ready to use out of the box”.

Patient assistance

The focus split indicator shows the amount of focus deviation in the fundus observation screen, which helps an operator to manually focus the AFC-330 on the fundus.

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AFC-330 Specifications

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<th>Focusing method</th>
<th>Light source</th>
<th>For observation</th>
<th>For capturing</th>
<th>Flash intensity</th>
<th>Internal fixation target</th>
<th>External fixation target</th>
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<td>Infrared focus split alignment</td>
<td>Halogen lamp 12 V 50 W</td>
<td>17 levels from F1 (F4.0 +0.8 EV) to F17 (F16 +0.8 EV)</td>
<td>0.5 EV increments</td>
<td>LED (maximum 9 points)</td>
<td>Free-arm (optional)</td>
<td>40 mm (back and forth)</td>
<td>85 mm (left and right)</td>
<td>32 mm</td>
<td>62 mm (up and down, motorized)</td>
<td>X-Y-Z direction</td>
</tr>
<tr>
<td><strong>Auto focus</strong></td>
<td></td>
<td></td>
<td></td>
<td>-33 to -7 D with minus dioptric lens</td>
<td>-12 to +15 D with no dioptric lens</td>
<td>-12 to +15 D</td>
<td>Xenon flash lamp 300 Ws</td>
<td>17 levels from F1 (F4.0 +0.8 EV) to F17 (F16 +0.8 EV)</td>
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<tr>
<td><strong>Auto shot</strong></td>
<td></td>
<td></td>
<td></td>
<td>+11 to +35 D with plus dioptric lens</td>
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[Image of Non-Mydriatic Auto Fundus Camera AFC-330]
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Navigation of Stereo and Panorama Photography

The AFC-330 navigates stereo and panorama photography with target marks displayed on observation screen, which enables an operator to easily capture stereo images and the image series for a panorama composition.

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Navigation of Stereo Photography

Tiltable 8.4-inch Color LCD Touch Screen

The 8.4-inch color LCD touch screen display window with tiltable monitor and icons for ease of use.

An on-screen keyboard enables an operator to input patient data easily without disrupting the workflow in the clinic.

Navigation of Panorama Photography

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Input of patient information:
- Touch screen keyboard
- External PC with NAVIS-EX

Data storage:
- USB* memory
- External printer* with USB connection

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Anterior eye monitor

Focus split indicator

Data storage:
USB* memory
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*Driver software needs to be installed for use of the USB memory and external printer.

Image print:
External printer* with USB connection

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Navigation of stereo photography

Navigation of panorama photography

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<td>Auto print / export</td>
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<td>Auto shot</td>
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