### EM-3000 SPECIFICATIONS

**Observation and analysis of corneal endothelium**

- **Photographing method**
  - Non-contact
- **Photographing range**
  - 0.25mm x 0.54mm
- **Measurement mode**
  - Auto / Manual 1 / Manual 2
- **Capturing position**
  - Center + 6 peripheral points
- **Cornea thickness measurement accuracy**
  - +/- 10 μm
- **Analysis method**
  - Automatic analysis / L-count
- **Analysis values**
  - Number (the number of analyzed cells)
  - CD (cell density) AVG (average cell area)
  - SD (standard deviation of cell area)
  - CV (coefficient of variation of cell area)
  - Max (maximum cell area) Min (minimum cell area)
- **Histogram**
  - Area (Polymegathism: Distribution by area)
  - Apex (Plemorphism: Distribution by polygonal shapes types)

**Main unit**

- **Display**
  - 8.4" color LCD
- **Stroke of moving sections**
  - 88 mm (X axis); 40 mm (Y axis); 50 mm (Z axis)
- **Stroke of chin rest**
  - 70 mm
- **Data output type**
  - Printer / LAN / USB
- **Dimensions and weight**
  - 308 (W) x 493 (D) x 453 (H) mm; approx. 18 kg
- **Power source**
  - 100VAC-240VAC; 50/60 Hz; 100 VA - 130VA

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All-in-one SPECULAR MICROSCOPE with “Corneal endothelium photographing” and “Automatic analysis”

Serial photographs of 15 shots
15 shots can be taken in series and errors during photographing are reduced. In addition, the best image among the 15 shots is automatically selected and displayed on the screen.

Wide photographing range and 7 capturing positions
Our unique technology enables a wide photographing range of 0.25 x 0.54 mm and allows you to observe the endothelium over a wide range. Photos can be taken at 7 points: the center and 6 peripheral points (2, 4, 6, 8, 10, and 12-o’clock positions on a 4.6 mm arc).

Manual photographing is also available
When automatic photographing is difficult, you take photos manually using the power joystick.

LED light source
A long-life LED has been introduced for the photographing light source instead of the conventional xenon lamp, which requires maintenance. Regular replacement of the lamp is a thing of the past.

USB connector for printer and LAN connector for PC
- USB-D connector: Connected to a Pict Bridge compatible printer to print images of the corneal endothelium and analysis results.
- USB-H connector: Connected to a barcode reader or electromagnetic card reader to enter patient ID data. A digital printer may also be connected.
- LAN connector: After installing the “Data Transfer” software provided with the EM-3000 in your personal computer, inspection result files assigned a patient ID can be saved in the personal computer.

Simple analysis using the L-count method
L-count method
Using the L-count function allows the physician to select cells on the image within the specified area and calculate the cell density by touching the cells on the screen with a stylus pen.

Quick and automatic analysis of corneal endothelium cells
The software for automatic analysis is pre-installed, so images are analyzed automatically without using personal computers. Colorful icons and touch panel ensure easy operation for anyone.

Various display functions
The image of the corneal endothelium can be displayed with the cell shapes traced, as well as with different areas and structural forms of cells displayed in different colors. This provides a visual understanding of the condition of the corneal endothelium.

Analysis results screen