



ESMD-320W

Portable Ultrasound
Biomicroscope



OPHTHALMOLOGY / ENT



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Portable Ultrasound Biomicroscope



Cod.ESMD-320W

- The frequency is 50MHz, with two kinds of field of view, which are 6.7mm×5.3mm and 13.5mm×10.6mm.
- When the probe scans continuously for more than five minutes, the default setup is to stop scanning, but the operator can cancel the setup.
- The probe automatically stops scanning when it is too close to the cornea.
- Simple operation that meet the habit of doctor.
- Real-time image acquisition, the operators can capture single image and acquire dynamic video.
- The images and texts are stored together as a medical record.
- Image processing and measurement
- Printing of image report.
- Medical records storage and retrieval.
- Mass storage.

Technical Features

| | |
|-------------------------------------|---|
| Ultrasonic Frequency | 50MHz |
| Gain Control | ≥105dB |
| Display Resolution | 1280 ×1024 or 1024 × 768 |
| Gray Scale | 256 |
| Delay | 3 mm - 12mm |
| Field of View (depth × width) | wide view (10.6mm × 13.5mm), normal (5.3mm × 6.7mm) |
| Scanning Method | sector scan |
| Resolution | Axial: 50um; lateral: 100um |
| Accuracy of Geometrical Position | axial: ≤10%; lateral: ≤15% |
| Display Mode | B |
| Image Buffer Space | ≥100images |
| Screen Measurement | distance, angle, area and so on |
| Communication Interface | USB |
| Image Format | JPG, BMP |
| Film Format | AVI |
| Footswitch | Start\Freeze and Capture image |
| Image Processing | Brightness and contrast adjustment, γ correction, color change, color reversal, amplification, text annotation |
| Print Report | Observation, image content can be selected to print |
| Operation System | Windows XP |
| Hard Disk Capacity | more than 80GB |
| Monitor Resolution | 1280 x1024 |
| Optional | 20MHz B-Scan probe on ESMD-320W Probe Type: 20MHz B-Scan, Scan Mode: Sector Scan, Refresh rate: 10 frames per second Grayscale: 256 Levels, Standard Field: 42mm/53° |



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