



## ENDOFLASHER 800 VIDEOENDOSCOPIC PROBES DIAMETER 6 MM

Dedicated to "PC compatible" video recording on USB key, the ENDOFLASHER 800 incorporates a comfortable 5 inch viewing screen, integrated LED lighting and a real-time processor with super sensitivity capabilities. ENDOFLASHER 800 loaded with the 3DSIZER option and fitted with distal stereo tips enable high precision, three-dimensional in situ measurements.

- Diameter 6 mm
- Up to 8 M lengths
- Orbital tip articulation by joystick
- Axial and lateral interchangeable tips with standard or stereo viewing
- 5 inch VGA screen
- Real-time JPEG and MPEG4 audio-video recording
- Comparison measurement function
- Integrated LED lighting
- Video processor with variable zoom and low speed auto shutter
- Distal temperature alarm
- Impregnated tungsten braiding
- Universal thread mount
- Molded reinforced polycarbonate body
- 2 meters removable umbilical cable
- AC or battery powering
- Option : 3DSIZER function for three-dimensional stereo measurement

# ENDOFLASHER 800 VIDEOENDOSCOPIC PROBES DIAMETER 6 MM

| ENDOFLASHER 800 |                         |                |                               |
|-----------------|-------------------------|----------------|-------------------------------|
| DIAMETER        | REFERENCE               | WORKING LENGTH | TIP ARTICULATION              |
| 6.0 mm          | <b>HSD-60-A2-200-S8</b> | 200 cm         | 150° orbital tip articulation |
|                 | <b>HSD-60-A2-300-S8</b> | 300 cm         |                               |
|                 | <b>HSD-60-A2-450-S8</b> | 450 cm         | 120° orbital tip articulation |
|                 | <b>HSD-60-A2-600-S8</b> | 600 cm         |                               |
|                 | <b>HSD-60-A2-800-S8</b> | 800 cm         |                               |

| ENDOFLASHER 800 3DSIZER |                         |                |                               |
|-------------------------|-------------------------|----------------|-------------------------------|
| DIAMETER                | REFERENCE               | WORKING LENGTH | TIP ARTICULATION              |
| 6.0 mm                  | <b>HMD-60-A2-200-S8</b> | 200 cm         | 150° orbital tip articulation |
|                         | <b>HMD-60-A2-300-S8</b> | 300 cm         |                               |
|                         | <b>HMD-60-A2-450-S8</b> | 450 cm         | 120° orbital tip articulation |
|                         | <b>HMD-60-A2-600-S8</b> | 600 cm         |                               |
|                         | <b>HMD-60-A2-800-S8</b> | 800 cm         |                               |

## INTERCHANGEABLE TIPS FOR ENDOFLASHER 800 VIDEOENDOSCOPIC PROBES Ø 6 MM

| PROBE Ø | TYPE                  | VIEWING            | FOV                   | REFERENCE                | FOCUSING               | NUMBER                |               |
|---------|-----------------------|--------------------|-----------------------|--------------------------|------------------------|-----------------------|---------------|
| 6.0 mm  | Standard              | Axial              | 50°                   | <b>TV60B-A50-Y41</b>     | 100 mm to infinite     | A61                   |               |
|         |                       |                    |                       | <b>TV60B-A50-V82</b>     | 50 mm to infinite      | A62                   |               |
|         |                       |                    |                       | <b>TV60B-A50-K164</b>    | 12 mm to 200 mm        | A63                   |               |
|         |                       |                    | 80°                   | <b>TV60B-A80-N82 (1)</b> | 20 mm to infinite      | A64                   |               |
|         |                       |                    |                       | <b>TV60B-A80-E164</b>    | 3 mm to 20 mm          | A65                   |               |
|         |                       |                    |                       | 100°                     | <b>TV60B-A100-F106</b> | 5 mm to 120 mm        | A66           |
|         |                       |                    |                       |                          | <b>TV60B-A120-F70</b>  | 4 mm to 190 mm        | A67           |
|         | Lateral               | 50°                | <b>TV60B-L50-V82</b>  | 45 mm to infinite        | L61                    |                       |               |
|         |                       |                    | <b>TV60B-L50-K164</b> | 9 mm to 200 mm           | L62                    |                       |               |
|         |                       |                    | <b>TV60B-L80-D164</b> | 1 mm to 20 mm            | L63                    |                       |               |
|         |                       | 80°                | <b>TV60B-L80-N82</b>  | 20 mm to infinite        | L64                    |                       |               |
|         |                       |                    | 100°                  | <b>TV60B-L100-F106</b>   | 4 mm to 120 mm         | L65                   |               |
|         |                       | Stereo measurement |                       | Axial                    | 50°/50°                | <b>TV60B-SA50-F98</b> | 5 mm to 80 mm |
|         |                       |                    | Lateral               | <b>TV60B-SL50-F98</b>    |                        | 2 mm to 80 mm         | S62           |
| Axial   | <b>TV60B-SA50-N62</b> |                    | 20 mm to infinite     | S63                      |                        |                       |               |
| Lateral | <b>TV60B-SL50-N62</b> |                    |                       | S64                      |                        |                       |               |



(1) Tip supplied with each probe diameter 6 mm

### IMAGE PROCESSING FUNCTIONS

#### DIRECT FUNCTIONS

- Fixed image or motion video recording
- Thumbnail or full screen image review, tip articulation, variable zoom, super sensibility, image freeze

#### STANDARD PROGRAMMED FUNCTIONS

- Comparison measurement
- Circle gauge
- Title input by virtual keyboard
- Arrow annotation management
- Split screen
- Video settings

#### OPTION 3DSIZER PROGRAMMED FUNCTIONS

- Three-dimensional stereo measurement modes: length, depth, point to line, multi-segment lengths, perimeter, area

#### ON-SCREEN INDICATIONS

- Zoom, super sensitivity, motion video recording, distal temperature alarm
- Date/time, title, operating instructions, arrows, measurement results



Menu



Virtual keypad



3D stereo measurement



Video settings



Split screen



Thumbnail playback

### TECHNICAL FEATURES

#### SERIES

##### Vocation

Working diameter  
Working length  
Tip articulation  
Probe sheathing  
Tip max temperature  
Screen  
Pixels number image sensor  
Autoshutter  
Autoshutter reference point  
White balance  
Image analysis surfaces  
Blue level adjustment  
Red level adjustment  
Variable zoom  
Recording formats

Menu text languages

Recording support  
Audio headset connection  
Video output  
Handle weight  
Probe weight (Lg 2 meters)

#### ENDOFLASHER 800 Industrial endoscopy

6 mm  
Up to 8 meters  
150° orbital tip articulation  
Impregnated tungsten  
80°  
5 inch  
470 000  
1/100 000 to 2 s  
15 positions  
Auto-lock  
Full/Spot  
15 positions  
15 positions  
Maximum by 3  
JPEG images, MPEG4 sequences  
AVI audio  
French, English, German, Italian, Portuguese, Spanish  
USB key  
2 jacks 3.50 mm  
VGA connector  
About 1,950 Kg  
About 2,420 Kg

### ACCESSORIES

NiMH battery power pack ref. **PW800-07** (about 2H45 of autonomy)  
Fast battery charger ref. **CR800-02**  
Cable with cigarette lighter adapter for 12V connection ref. **CB800-01**  
AC power supply ref. **S800-02**  
Audio headset ref. **MC800**  
IATA transport case ref. **VA-800F**  
Rigid guide tubes diameter 8 mm  
Flexible guide tube diameter 12,7 mm  
Centering devices diameters 15, 38 and 76 mm  
Test block ref. **BTS-60**

### OTHER MODELS AVAILABLE

ENDOFLASHER 800 videoendoscopic probes of diameters 4, 5, 8 and 6 mm with internal working channel.

EFER reserves the right to modify product specifications without notice