

# Technical Specifications

## SpectroShade™Micro- Dental Spectrophotometer

### Type of instrument:

Spectrophotometer

### Spectral Data:

Light output: from about 410nm to 680nm  
Image output: calibrated data from 400nm to 720nm, steps of 10nm

### Measurement data:

- Illumination 2 x 45°, polarized, telecentric, monochromatic
- Readings at 0°, polarized, telecentric
- Reading area: ~18x14mm on 640x480 points
- Digital Resolution: 640x480 = 307.200 (=N° of spectral curves)
- Optical resolution: ~0,03x0,03mm for each point
- Repeatability: better then dE of 0.5 on teeth
- Inter instrument agreement: better then dE of 1 on teeth

### Sensors:

- CCD Black and White sensor (for spectrum data readings)

### Selling Kit

- SpectroShade Micro
- 5 autoclavable Mouth Pieces
- Battery charger
- PC-Software Setup CD, complete with USB drivers
- Operating Manual
- SD Memory Card 128 MB

### Minimum computer requirements:

- PC Windows 2000 or more (not included)
- CPU: Pentium III 800MHz
- 128 Mbyte RAM
- 20 Gbyte HD
- CD / CD-R / CD-RW writer
- W-LAN or USB 1.1 or 2.0
- Modem, for extended communication
- Available also the Stand-Alone Version, with basic shade analysis functionalities

### General information:

- Power supply: rechargeable Li-Ion batteries
- Stand by time: 2 hrs
- Battery charger: 115V 60Hz / 230V 50Hz
- Environment temperature: 10°C – 35°C
- Air humidity: 30% – 80%
- Dimensions: (HxWxD) 21 x 16 x 11 cm
- Weight: 900 grams
- USB 1.1 or 2.0
- W-LAN 11 Mbits
- SD Memory Card 128 MB
- Microphone

### Patents:

- US Patent 6.038.024
- US Patent 5.798.839
- Patent pending N° 01276/04

