



# Doppler-Box™

No Compromises –  
Optimum Digital Flexibility

A unique combination of a fully digital Doppler device with Doppler M-Mode and an external computer ensures a maximum on performance — with minimum space requirements.

The Doppler-Box™ is a compact and robust DWL® Doppler system, which is characterised by its Doppler quality and its compatible, flexible and modular operation. With the Doppler-Box™ Compumedics Germany is providing you the option of updating your medical workplace to a fully digital Doppler device with 1, 2, 4, 8 and 16 MHz Doppler frequencies to perform all clinical routine and monitoring examinations with special function tests (CO<sub>2</sub>/VMR, evoke flow) and emboli detection at a reasonable price.

**Doppler-Box™**  
**No Compromises –**  
**Optimum Digital Flexibility!**

#### Full Digital Doppler Technology

The traditionally high quality DWL® Doppler with digital Doppler technology and Doppler M-Mode meets highest demands and exceeds all previous requirements for clinical routine and monitoring examinations. The integrated digital technology



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provides a maximal signal quality and total access to raw data for complete external signal analysis by means of ASCII export.

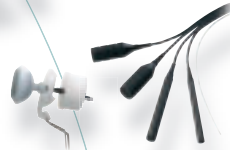
#### Doppler-M-Mode

The Doppler M-Mode makes it possible to simultaneously receive

and analyse Doppler signals from a predefined range of depths. The Doppler M-Mode display shows the intensity, direction and depth information of this range of depths continuously and in real-time. It provides an excellent graphical display of the blood flow in all vessels located in the



Combination of the Doppler-Box™ to any arbitrary desktop computer (PC)\* or notebook\*, patient isolation by insulated network connection



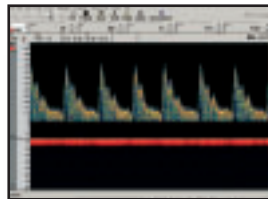
Applicable with 1, 2, 4, 8, 16 MHz handheld and 2 MHz monitoring probes for transcranial, extracranial, peripheral and microvascular Doppler diagnostics



Optional DWL® probe holders for adults, paediatrics and neonates: DiaMon®, LAM racks, elastic headbands and adhesive fixation



Free-standing probe holder and optional system accessories - multi-function remote control with integrated optical mouse, medical network insulation for means of patient isolation (other accessories please see back side)



QL routine software and optional QL software-modules up to unilateral or bilateral monitoring, emboli detection and special function tests

## Advantages of the Doppler-Box™

- Small, compact and robust
- High quality DWL® Doppler
- Full digital Doppler system
- Bilateral Doppler M-Mode (32 channels each)
- Upgradeable with optional software modules up to monitoring diagnostic with special function tests and emboli detection
- Connection to any arbitrary desktop computer or notebook\*
- Intuitive user interface – simple to navigate and freely configurable
- Isolated Ethernet connection
- Network compatible
- Analogue in- and outputs\*

\* Please pay attention to the specifications on the back side

sound beam. The Doppler M-Mode display allows moving through the entire depth range and thus easily selecting the best Doppler signals and most relevant clinical data.

Use of the Doppler M-Mode for emboli detection allows an obser-

vation of an embolus as it passes through various depths.

### QL Software

The user friendly QL software with intuitive user interface is based on a Windows® operating system. The modular design facilitates an upgrade

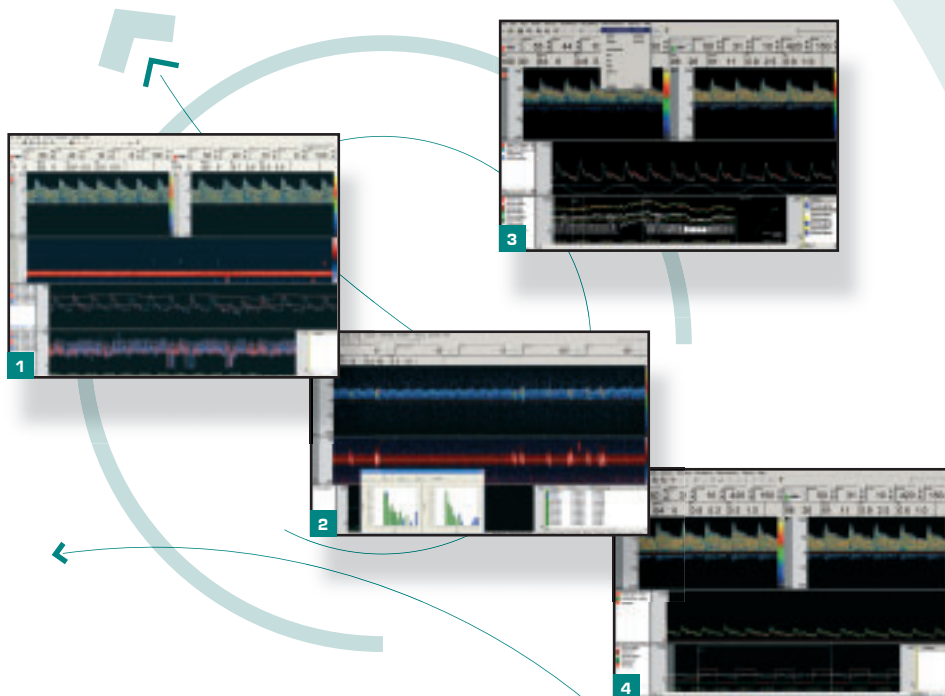
of the software at any time from routine applications to unilateral or bilateral monitoring, special function tests and emboli detection with the maximum of efficiency.

## Standard equipment of the Doppler-Box™

- QL routine software with Doppler M-Mode
- Free-standing probe holder

## Technical specifications

- Dimensions [D x B x H]: 27 x 10.5 x 9.0 cm
- Weight: 1.8 kg
- Doppler frequencies [MHz]: 1/2/16 (pw), 4/8 (pw/cw)
- Channels: 2
- Connections: 2 (each channel)
- Spectral windows: 1-4
- Doppler M-Mode : 32 gates (each channel)
- Ethernet: 100 Mbit
- Analog inputs: 8 (in monitoring software)
- Analog outputs: 4
- Power supply: external, mobile and medically-approved
- Power supply: 100-240 V AC 50/60 HZ
- Electrical safety class: I
- Application part: Type BF (CF for 16 MHz)
- Protection class in accordance with MPG/MDD: IIB
- Conformity in accordance with IEC 60601
- CE label: CE0123
- Manufacturer: Compumedics Germany GmbH, Singen – The DWL® Doppler Company



## Optional accessories

- 1, 2, 4, 8, 16 MHz handheld and 2 MHz monitoring probes
- DWL® probe fixations for adults, paediatrics and neonates: DiaMon®, LAM racks, elastic headbands, adhesive fixation
- Multi-function remote control with integrated optical mouse
- Med. approved workstation (PC)
- Med. network insulation

## Optional software modules

- 1 1 or 2 channel monitoring
- 2 Emboli detection
- 3 CO<sub>2</sub> reactivity and vasomotor tests
- 4 Evoke flow test

For detailed information on DWL® products please contact our exclusive DWL® dealer in your area (to be found under [www.dwl.de](http://www.dwl.de)) or contact us directly.

## Your local DWL® partner

### Compumedics Divisions



All specifications are subject to change without notice.

**Compumedics Limited, Australia**  
**Compumedics USA, Limited**  
**Compumedics Singapore Pte. Limited**

## MANUFACTURER

### Compumedics Germany GmbH

The DWL® Doppler Company  
 Josef-Schüttler-Straße 2  
 78224 Singen  
 Germany  
 Tel. +49 (0) 7731 79769-0  
 Fax +49 (0) 7731 79769-99  
[www.dwl.de](http://www.dwl.de) · [info@dwl.de](mailto:info@dwl.de)  
[www.compumedics.com](http://www.compumedics.com)

Compumedics Germany GmbH, Singen, is certified in accordance with ISO 13485 and Annex II, Section 3 the Directive 93/42/EEC on Medical Products.

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