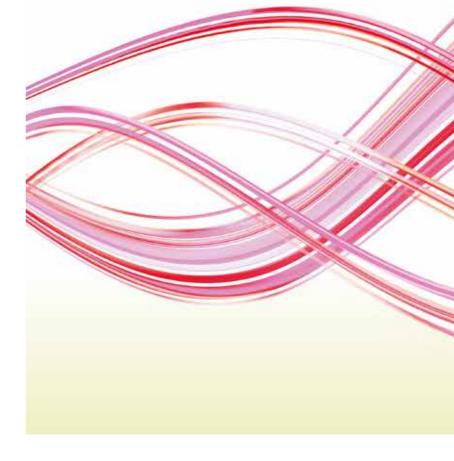






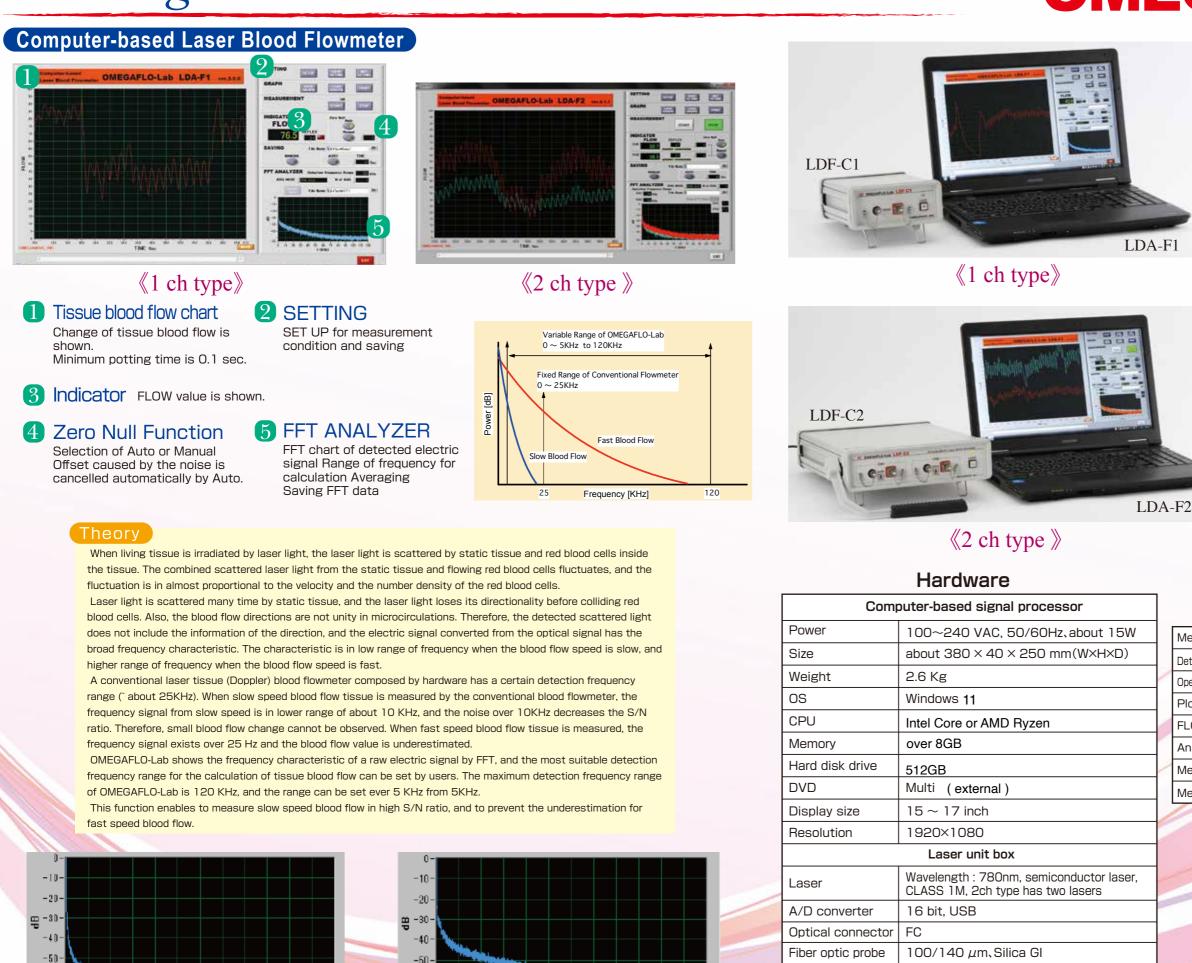
2-20-3 Katamachi, Fuchu, Tokyo Japan T E L :042-352-1171 FAX:042-352-1173 http://www.omegawave.co.jp/





## Nothing measures like the OMEGAFLO-Lab.



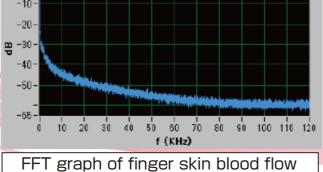


FFT graph of forearm skin blood flow

- Ó - 1Ó - 2Ó - SÍO - 4Ú - 5Ó - 6Ú - 7Ó - 8Ó - SÍO - 11Ú - 12Ó

f (KHz)

-65



Power

Size

Weight

1 ch type : 5V DC, 0.4A, 2 ch type : 5VDC, 0.8A

1 ch type : 155 x 58 x 202(W×H×D)

2 ch type : 370 x 66 x 280(W×H×D)

1 ch type : 1kg

2 ch type : 1.5kg

# **OMEGAFLO-Lab**

Special Feature
<b>1.</b> Setting function of frequency range Operation frequency range of detected signal can be set by confirming FFT chart, and high S/N ratio measurement is possible.
<b>2.</b> 120 KHz range of detection frequency Higher frequency can be detected compared with a conventional laser blood flowmeter, and fast blood flow tissue is measured.
<b>3.</b> Auto zero adjustment Offset noise generated from the laser – detector unit, LDF-C1, is automatically cancelled.
<b>4.</b> Easy saving of data System is compact because the calculation, display and saving are operated by the computer-based signal processor, and no data acquisition is needed.
<b>5.</b> Saving of FFT data FFT data of the detected light signal can be saved, and it is used for confirmation of the raw data.
<b>6.</b> USB power supply The power for FLO-Lab is supplied from USB output of the computer-based signal processor. AC power is just needed for the computer-based signal processor.
<b>7.</b> Channel selection function for 2ch type.

8. Probes for FLO series can be used.

### Patent No. 6045100 (Japan)

### Measurement

Measurement	Tissue blood flow (FLOW) 0 - 1000 (mL/min/100g corresponding)		
Detection frequency range	$OHz \sim 120 kHz$		
Operating frequency range	5kHz $\sim$ 120kHz every 5kHz pitch		
Plot interval	0.1, 0.2, 0.5, 1, 2, 5, 10 sec		
FLOW display time	$10 \sim 600 \text{ sec}$ selectable		
Analog output	FLOW : 0 – 10 V		
Measurement area	inside about 1 mm circle		
Measurement depth	about 0.5mm - 1mm frtom surface (depends on tissue)		

#### Application

- Cerebral blood flow
- Blood flow of internal organs
- Skin blood flow
- Spinal cord blood flow
- Gingiva blood flow
- Vasodilation and ischemia
- Environmental effect