

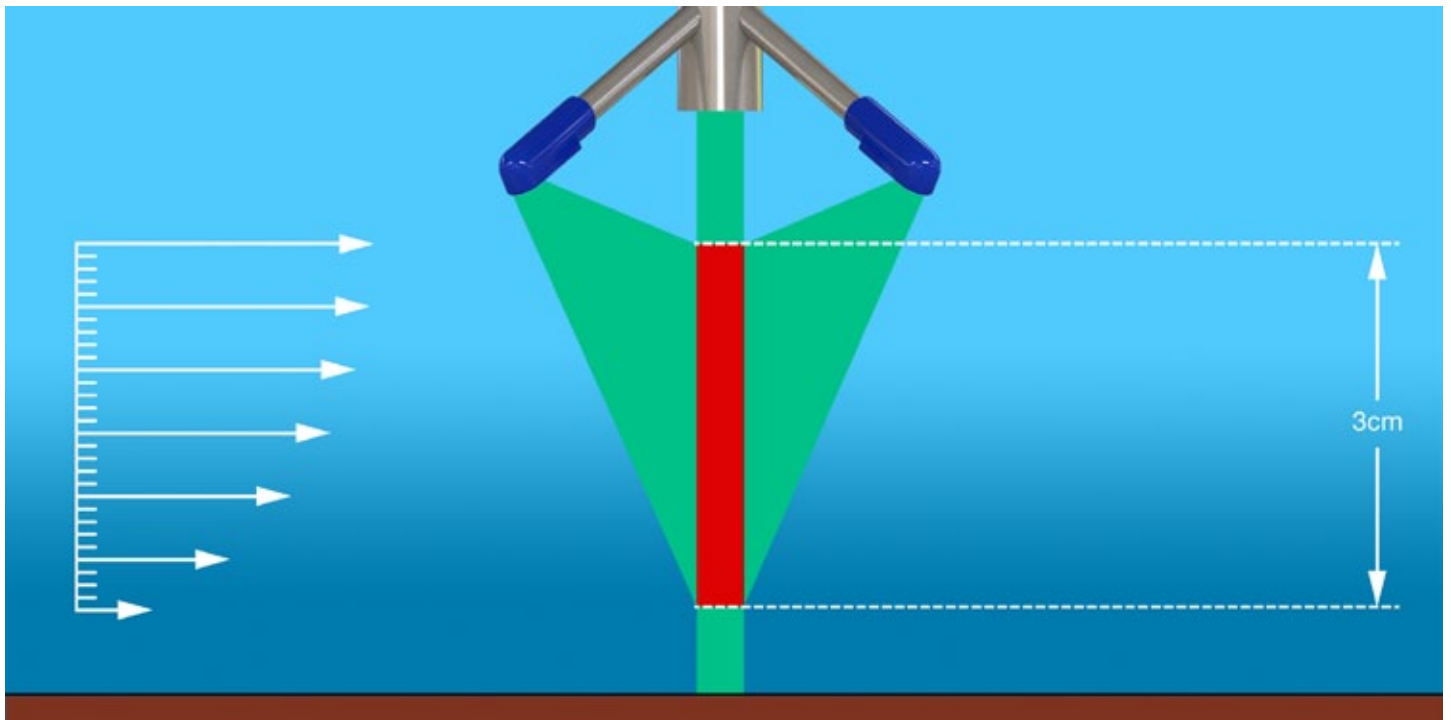
The Vectrino II profiling Velocimeter provides new and unique opportunities for laboratory and field velocity measurements. While maintaining the sleek design of the single-point Vectrino, the new instrument includes a complete set of new hardware, firmware, software. A targeted instrument design makes this miniature current profiler very well suited for high resolution boundary layer observations and for estimation of turbulence parameters.

Vectrino II

3D profiling Velocimeter



The Vectrino II comes with fully functional data collection software



The Vectrino II profiles the water column over a 3 cm range and provides three-component velocity observations with a resolution as fine as 1 mm and sampling rate as fast as 100 Hz. The Vectrino II can measure the distance to the bottom at rates of up to 10 Hz by interleaving bottom detection pings and velocity profiling pings. New interface software provides enhanced capabilities such as real-time plots of velocity profiles, velocity standard deviation, energy spectra and color contour plots.

CURRENT AND WAVE MEASUREMENTS IN THE OCEAN, LAKE AND LABORATORY



Nortek AS
Vangkroken 2
1351 Rud, Norway
Tel: +47 6717 4500
Fax: +47 6713 6770
E-mail: inquiry@nortek.no



www.nortek-as.com
True innovation makes a difference

Water Velocity Measurements

Range: 0.01 m/s in increments of 0.01 m/s to maximum of 3.0 m/s

Accuracy: $\pm 0.5\%$ of measured value ± 1 mm/s

Sampling rate (output): 100 Hz

Sampling Volume

Profile Range: 3 cm

Location: 4 – 7 cm from probe

Diameter: 6 mm

Min cell size: 1 mm

Echo Intensity

Acoustic frequency: 10 MHz

Resolution: Linear & log scale

Dynamic range: 60 dB

Sensors

Temperature: Thermistor embedded in probe

Range: -4°C to 40°C

Accuracy/Resolution: $1^{\circ}\text{C}/0.1^{\circ}\text{C}$

Time response: 5 min

Data Communication

I/O: RS-485 (comes with high speed RS-485-to-USB converter)

Communication Baud rate: Up to 1.25 Mbps

User control: Handled via Vectrino II configuration and collection software

Analog outputs: None

Synchronization: SynchIn and SyncOut

Software ("Vectrino II")

I/O: RS 485-USB support for devices with 1, 2, 4, and 8 serial ports.

Operating system: Windows XP, Vista and 7 (32 and 64 bit)

Functions: Instrument configuration, data collection, data storage. Probe test modes.

Multi Unit Operation Vectrino II software allows multiple Vectrino II to be run within a single instance of the program.

Power

DC Input: 12-48 VDC

Peak current: 2.5 A at 12 VDC (user selectable)

Max. consumption: 4 W at 100 Hz

Connectors

Bulkhead: Splash proof connector or MCBH-12-FS, bronze (Impulse) – see also options below.

Cable: Splash proof or PMCIL-12-MP – see also options below.

Materials

Standard model: Delrin® housing. Stainless steel (316) probe and screws.

Environmental

Operating temperature: -4°C to 40°C

Storage temperature: -15°C to 60°C

Shock and vibration: IEC 721-3-2

Dimensions

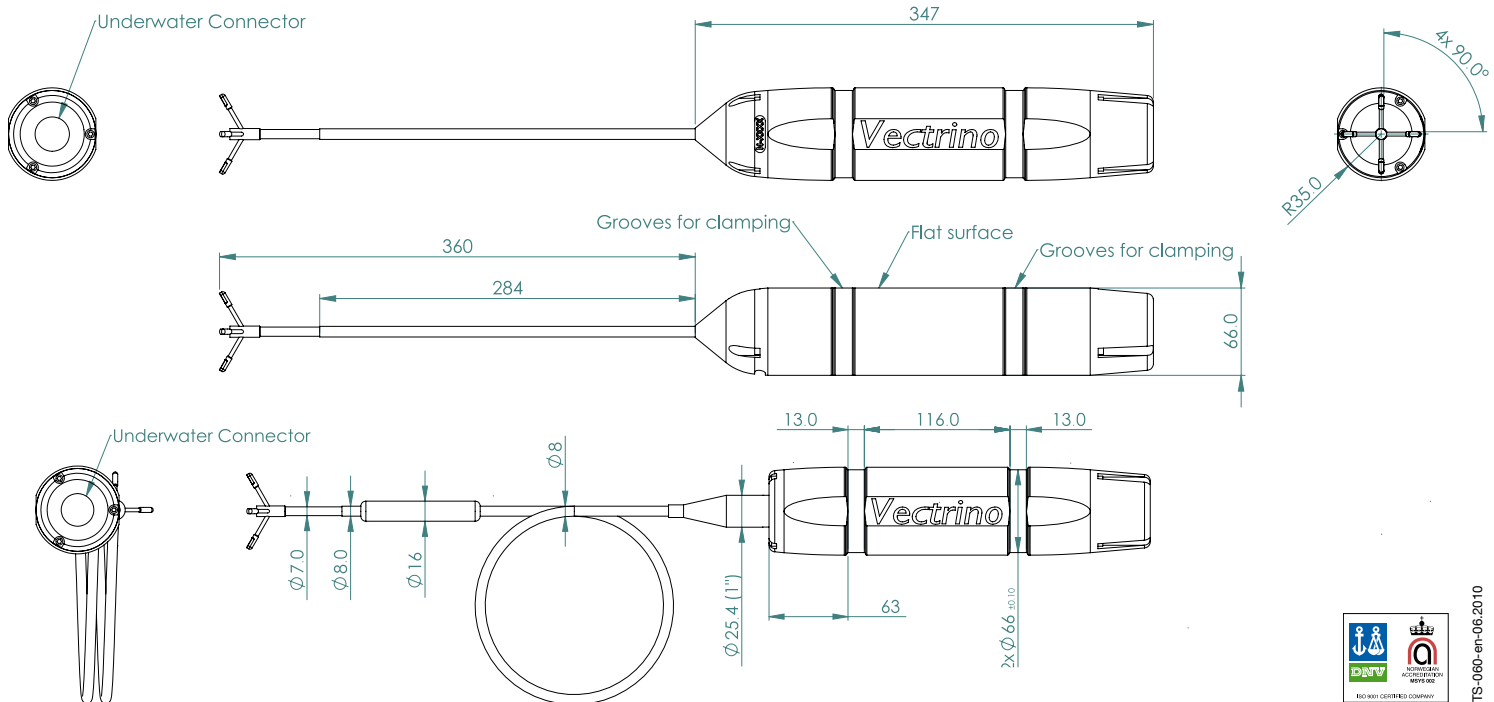
See below for main dimensions

Weight in air: 1.2 kg

Weight in water: Neutral

Options

- 4-beam down-looking probe. Fixed stem or flexible cable
- 10, 20, 30 or 50 m cable with choice of splashproof or Impulse underwater connector
- RS 485-USB converter (one-to-one, four-to-one or eight-to-one)
- Combined transportation and storage case



TS-060-en-06.2010

TRUE INNOVATION MAKES A DIFFERENCE

NortekMed S.A.S.
Z.I. Toulon Est
BP 520
83 078 TOULON cedex 09
FRANCE
Tel: +33 (0) 4 94 31 70 30
Fax: +33 (0) 4 94 31 25 49
E-mail: info@nortekmed.com

NortekUK
Tresanton House
Bramshott Court
Bramshott
Hants
GU30 7RG
Tel: +44- 1428 751 953
E-mail: inquiry@nortekuk.co.uk

NortekUSA
222 Severn Avenue
Building 14, Suite 102
Annapolis, MD 21403
Tel: +1 (410) 295-3733
Fax: +1 (410) 295-2918
E-mail: inquiry@nortekusa.com

青岛诺泰克测量设备有限公司
地址: 中国青岛香港西路65号
汇融广场1302
邮编: 266071
Tel: 0532-85017570, 85017270
Fax: 0532-85017570
E-mail: inquiry@nortek.com.cn

Nortek B.V.
Schipholweg 333a
1171PL Badhoevedorp
Nederland
Tel: +31 20 6543600
Fax: +31 20 6599830
email: info@nortek-bv.nl