

**geo-FENNEL Ecoline.
Because a lot can be
accomplished with precise
measuring.**



FOR PROFESSIONALS

Tools not Toys.



**At the beginning,
good will pays.**

The new measuring class.
geo-FENNEL Ecoline.

geo-FENNEL is synonymous with precise and high-quality laser measurement engineering. With the new Ecoline brand, professional DIY enthusiasts and discerning trade customers find measuring instruments which offer all the advantages which set geo-FENNEL products apart: They are easy to use, provide precise measurement results and offer the highest safety and reliability. Ecoline – measures simply everything.



At the end – the result.

**Measurement and knowledge –
the advantages of the Ecoline products.**

**Advantage 1
- practicality**

No matter which measuring tasks you want to tackle, you can do them alone. A second person is not required.

**Advantage 2
- safety**

All Ecoline products are in laser class 2/2M. If the laser beam accidentally hit your eye, the eye is protected by its natural blinking response.

**Advantage 3
- long warranty**

We issue a 2 year warranty for all equipment. If a problem occurs, please simply contact your dealer. He will quickly reinstate the device's full functionality or will replace it with a new one. Fast and uncomplicated.



EL 515

Whatever you need: Whether you align dry walling, suspend ceilings or transfer levels – the robust and precise rotating laser is a must for horizontal and vertical measurement. It is also ideally suited for horticulture and landscape gardening. The standard receiver ensures a wide range of uses. Three rotation speeds and the instantaneous self-levelling for professional work guarantee that you can complete your measuring tasks quickly and accurately. A further highlight – unique in this class – is the fact that the rotor head only turns if self-levelling is activated. This prevents incorrect results. Your additional measuring certainty!



FOR PROFESSIONALS



Fully automatic horizontal self-levelling, vertical levelling with one footscrew

Visible laser beam

Very quick self-levelling
Permanent plumb beam

Three rotating speeds

Automatic shut-off with alarm when misaligned

TECHNICAL DATA

Self-levelling range	± 3°
Accuracy	± 3 mm/10 m
Rotating speed rpm	200, 400, 600
Working range without receiver Ø	30 m*
Working range with receiver Ø	200 m
Laser class/Wave length	2/635 nm
Temperature range	-10 °C to +45 °C
Power supply	6 x AA Alkaline
Operating time	30 h
Dust/Waterproof	IP 54
Weight (instrument only)	1,5 kg
Size (instrument only)	140 x 120 x 158 mm

* depending on room illumination

SUPPLIED WITH

Rotating laser
Receiver
Clamp for receiver
Wall / floor mount
Set of batteries
Padded bag
Operators' manual

Please note the optional accessories on pages 18 and 19.

EL 503

Highs and lows - for you this is simply a question of levelling. With this rotating laser you complete your indoor horizontal and vertical measuring work precisely and efficiently.



FOR PROFESSIONALS



For horizontal and vertical measurements

Easy setting with footscrews

Laser point mode

Permanent plumb beam

TECHNICAL DATA

Accuracy	± 3 mm/10 m
Rotating speed rpm	0 to 500
Working range without receiver Ø	20 m*
Laser class/Wave length	2 / 650 nm
Temperature range	-10 °C to +45 °C
Power supply	4 x AA Alkaline
Operating time	12 h
Weight (instrument only)	0,55 kg
Size (instrument only)	120 x 120 x 150 mm

* depending on room illumination

SUPPLIED WITH

- Rotating laser
- Elevating tripod
- Laser glasses
- Set of batteries
- Hard case
- Operators' manual



EL 601

The universal laser for interior work.

Crooked is a thing of the past with this line laser. Whatever you have to do inside – aligning wall tiles or drill holes is just as reliable and fast as transferring levels or precise levelling of doors and windows. Wherever you have something to measure – the result will convince you straight away.



One laser cross

Self-levelling

Compensator lock (transport lock)

Alarm when misaligned

TECHNICAL DATA

Self-levelling range	± 5°
Accuracy	± 4 mm/10 m
Working range Ø	20 m*
Laser class/Wave length	2M/635 nm
Temperature range	0°C to +40 °C
Power supply	3 x AAA Alkaline
Operating time	12 h
Weight (instrument only)	0,5 kg
Size (instrument only)	110 x 110 x 130 mm

* depending on room illumination

SUPPLIED WITH

- Cross laser
- Elevating tripod
- Laser glasses
- Set of batteries
- Hard case
- Operators' manual



FOR PROFESSIONALS

EL 167

The down-to-earth, well-established solution for interior work. There are numerous finishing and fit out tasks which require precise working: Here the 3-line laser is precisely the right tool. For flooring work or for example for installing shelves and cabinets, it is especially precise and also provides valuable services for aligning wall and floor tiles.



- Three laser lines at 90° to each other
- Straight laser lines can be seen on any surface
- Built-in vials for vertical and horizontal alignment
- 360° circle reading

TECHNICAL DATA		SUPPLIED WITH
Accuracy	± 1 mm/1 m	Line laser
Working range	9 m*	Set of batteries
Laser class/Wave length	2M/635 nm	Case
Temperature range	0°C to +40 °C	Operators' manual
Power supply	3 x AAA Alkaline	
Operating time	12 h	
Weight (instrument only)	0,68 kg	
Size (instrument only)	137 x 137 x 60 mm	

* depending on room illumination



EL 166

The handy solution for interior work.

Always ready to hand – the line laser with the handy mouse shape should be in every toolbox! Whether for wallpapering, tiling or shelf and cabinet installation: You will no longer be able to do without this handy helper for your interior work.



Straight laser line on any surface

Built-in vials for horizontal and vertical alignment

TECHNICAL DATA

Accuracy	± 2 mm/1 m
Working range	9 m*
Laser class/Wave length	2M / 635 nm
Temperature range	0°C to +40 °C
Power supply	2 x AA Alkaline
Operating time	40 h
Weight (instrument only)	0,1 kg
Size (instrument only)	113 x 60 x 45 mm

* depending on room illumination

SUPPLIED WITH

Line laser
Set of batteries
Case
Operators' manual

EL 168

For the straight.

The robust construction makes this laser spirit level just as suitable for simple level transfers and interior measuring tasks as outdoors on the construction site. Laser dot. Alternative laser line, which can be steplessly adjusted vertically or horizontally. The laser line can be locked in 90° steps. The integrated levelling screw is used for horizontal alignment.



Switchable laser point or laser line

Three built-in vials for vertical and horizontal alignment

Magnetic base

TECHNICAL DATA

Accuracy	± 5 mm/10 m
Working range	20 m*
Laser class/Wave length	2 / 650 nm
Temperature range	0°C to +40 °C
Power supply	2 x AAA Alkaline
Operating time	24 h
Weight (instrument only)	0,14 kg
Size (instrument only)	50,8 x 177,8 x 22,2 mm

* depending on room illumination

SUPPLIED WITH

- Torpedo laser
- Set of batteries
- Case
- Operators' manual

FOR PROFESSIONALS

EL 200

The distance professional for interior work.

EL 200, try it and see for yourself. This ultrasound rangefinder is indispensable wherever it is necessary to determine distances in interior situations. A lightweight yet robust device in which not only the results fit but the dimensions too.



- Laser seeker
- Addition of length measurements
- Area/volume measurement
- Memory
- Measuring plane at the front/behind

TECHNICAL DATA		SUPPLIED WITH
Accuracy	± 1 cm +0,5 % distance	Distancemeter Set of batteries Case Operators' manual
Measuring range	0,5 to 18 m	
Laser class/Wave length	2/650 nm	
Temperature range	0°C to +40°C	
Power supply	1 x 9V	
Operating time	30 h	
Measuring units	m / ft / inch / yd	
Weight (instrument only)	0,35 kg	
Size (instrument only)	145 x 70 x 45 mm	



EcoDist

Modern design

Easy to use

High measuring accuracy

Lightning speed - over every distance

The EcoDist is a small and handy distance-measuring device that fits in every bag and expands only when you need it to.

Save time and money.

- ▶ This practical all-rounder helps both novices and professionals with many measuring tasks.
- ▶ With high quality laser measurement technology, easy operation and universal application.

Whether your demand is for lengths or surfaces, whether you are measuring distances in a dry construction or determining cable lengths, whether you need all kinds of distances or heights for renovation work and building measurements, or just generally need to find out other length, surface or volume measurements - you can take care of everything at the touch of a button with this professional laser measurement technology. The EcoDist will not only astonish you with its results and high measuring speed, but also with its price. Suitable for plumbers, joiners, painters, decorators, booth and kitchen builders, tilers, electricians, cleaning companies and many more.



TECHNICAL DATA

Distance	0,20 to 30 m
Accuracy	± 5 mm
Protection rating	IP 40
Features	plus, minus, lengths, surfaces, volumes, timing
Unit of measurement	mm

SUPPLIED WITH



Elevating Tripod EFS10



Floor-to-Ceiling Pillar EKS 3 / 3,40 meter



Wall and Ceiling mount EWH1



Receiver ELR 701 with clamp



Power supply (charger) for EL 515



Set of NiMH rechargeable batteries for EL 515



Your local specialist supplier

2

JAHRE GARANTIE
YEAR GUARANTEE
ANNI GARANZIA
ANS DE GARANTIE
JAAR GARANTIE
ANOS GARANTIA

geo-FENNEL's corporate policy stands for continuous product improvement and development. All products and descriptions correct at the time of printing. Subject to changes.

All rights reserved, technical changes possible without notice. · © geo-FENNEL GmbH 2007



Laser radiation
Do not stare into beam
Laser class 2
According to
DIN EN 60825-1:2001-11

$p \leq 1\text{mW}$
 $\lambda = 635\text{--}670\text{nm}$



Laser radiation
Do not stare into beam or view directly
with optical instruments
Laser class 2M
According to
DIN EN 60825-1:2001-11

$\lambda = 635\text{--}670\text{nm}$
 $H^{\circ} 25\Omega\mu\text{m}^2$

geo-Fennel Laser instruments are classified to laser class 2 or 2M.
The laser class may be seen from technical data.

geo-FENNEL GmbH · Kupferstraße 6 · D-34225 Baunatal
Fon +49(0)561-49 21 45 · Fax +49(0)561-49 72 34 · info@geo-fennel.de



www.geo-fennel-ecoline.de