**Seven Great Mikrofyn Lasers**

- all with unique features to meet specific contractor needs...

### Technical Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>ML10/</th>
<th>ML11/</th>
<th>ML13 or ML13+/</th>
<th>ML14 or ML14+/</th>
<th>ML15/</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Output</strong></td>
<td>2.5 mW</td>
<td>2.5 mW</td>
<td>2.5 mW or 4.9 mW</td>
<td>2.5 mW or 4.9 mW</td>
<td>4.9 mW</td>
</tr>
<tr>
<td><strong>Laser Source</strong></td>
<td>650 nm</td>
<td>650 nm</td>
<td>650 nm</td>
<td>635 nm</td>
<td>635 nm</td>
</tr>
<tr>
<td><strong>Remote Control</strong></td>
<td>8-channel 2-way radio</td>
<td>8-channel 2-way radio</td>
<td>8-channel 2-way radio</td>
<td>8-channel 2-way radio</td>
<td>8-channel 2-way radio</td>
</tr>
<tr>
<td><strong>Visible Laser Beam</strong></td>
<td>Yes (plumb only)</td>
<td>Yes –</td>
<td>Yes (super bright)</td>
<td>Yes (super bright)</td>
<td></td>
</tr>
<tr>
<td><strong>Operation Temperature</strong></td>
<td>-20° to 55°</td>
<td>-20° to 55°</td>
<td>-20° to 55°</td>
<td>-20° to 55°</td>
<td>-20° to 55°</td>
</tr>
<tr>
<td><strong>Power Source</strong></td>
<td>9V standard Alkaline</td>
<td>9V standard Alkaline</td>
<td>9V standard Alkaline</td>
<td>9V standard Alkaline</td>
<td>9V standard Alkaline</td>
</tr>
<tr>
<td><strong>Battery Life</strong></td>
<td>min. 100 hours**</td>
<td>min. 100 hours**</td>
<td>min. 100 hours**</td>
<td>min. 100 hours**</td>
<td>min. 100 hours**</td>
</tr>
<tr>
<td><strong>Power Saving Functions</strong></td>
<td>Yes (adjustable)</td>
<td>Yes (adjustable)</td>
<td>Yes (adjustable)</td>
<td>Yes (adjustable)</td>
<td>Yes (adjustable)</td>
</tr>
</tbody>
</table>

### Model Specific Functions

<table>
<thead>
<tr>
<th>Model</th>
<th>ML10/</th>
<th>ML11/</th>
<th>ML13 or ML13+/</th>
<th>ML14 or ML14+/</th>
<th>ML15/</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Self-leveling</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Battery</strong></td>
<td>Yes (4.6 Ah)</td>
<td>Yes (4.6 Ah)</td>
<td>Yes (4.6 Ah)</td>
<td>Yes (4.6 Ah)</td>
<td>Yes (4.6 Ah)</td>
</tr>
<tr>
<td><strong>Alarming</strong></td>
<td>8 hour</td>
<td>8 hour</td>
<td>8 hour</td>
<td>8 hour</td>
<td>8 hour</td>
</tr>
<tr>
<td><strong>Battery Charge</strong></td>
<td>8 hours</td>
<td>8 hours</td>
<td>8 hours</td>
<td>8 hours</td>
<td>8 hours</td>
</tr>
<tr>
<td><strong>Environmental</strong></td>
<td>Water resistant</td>
<td>Water resistant</td>
<td>Water resistant</td>
<td>Water resistant</td>
<td>Water resistant</td>
</tr>
<tr>
<td><strong>Laser Receiver</strong></td>
<td>HS10 (Standard)</td>
<td>HS10 (Standard)</td>
<td>HS10 (Standard)</td>
<td>HS14 (Standard)</td>
<td>HS14 (Standard)</td>
</tr>
<tr>
<td><strong>Shockproof Carrying Case</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Remote Control</strong></td>
<td>No (HS14)</td>
<td>No (HS14)</td>
<td>No (HS14)</td>
<td>No (HS14)</td>
<td>No (HS14)</td>
</tr>
<tr>
<td><strong>Level Laser Beam</strong></td>
<td>Yes (plumb only)</td>
<td>Yes –</td>
<td>Yes (super bright)</td>
<td>Yes (super bright)</td>
<td></td>
</tr>
<tr>
<td><strong>Angle Operation</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
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</tr>
<tr>
<td><strong>Visible Laser Beam</strong></td>
<td>Yes (plumb only)</td>
<td>Yes –</td>
<td>Yes (super bright)</td>
<td>Yes (super bright)</td>
<td></td>
</tr>
<tr>
<td><strong>Laser Class</strong></td>
<td>Class 3A</td>
<td>Class 3A</td>
<td>Class 3A</td>
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<td>Class 3A</td>
</tr>
<tr>
<td><strong>Battery</strong></td>
<td>9V standard Alkaline</td>
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<td>min. 100 hours**</td>
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</tr>
<tr>
<td><strong>Power Saving Functions</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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**Authorized Mikrofyn Distributor:**

Since its start in 1987, Mikrofyn A/S has placed itself among the top five worldwide manufacturers of professional precision lasers and machine control systems. The profits of the business are reinvested in new products and growing the business. Mikrofyn is built upon sound principles of developing and manufacturing state-of-the-art products, supported by experts and cooperating with outstanding professional local distributors.

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**Since the start in 1987, Mikrofyn A/S has placed itself among the top five worldwide manufacturers of professional precision lasers and machine control systems.**

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**Precision Lasers Easy to use - easy to afford**
The Mikrofyn ML10-15 laser series is the most rugged, easy to use, function packed multipurpose laser you can buy.

Just look at the ML14i multipurpose laser.

The ML14i is:
- a full automatic self leveling laser
- a semi automatic dual grade laser
- remotely controlled from the HS14 combined handheld laser receiver
- features a 180° split beam
- plumb function
- advanced scanning functions for increased visibility
- vertical function projecting a vertical plane across the worksite
- remotely controlled alignment function.

The laser has:
- a visible rotating laser beam
- user selected rotating speed etc.
- multible scanning and search functions
- For quick setup the laser is self leveling and it even warns you if it has been disturbed. The ML14i is completely waterproof and of course crash proof. All functions and settings chosen by the user are clearly displayed on the large LCD display.

- what more can you possibly ask for?

Easy to learn, setup and use.

Look at the front panel of the ML14i. Then you’ll understand why it’s so easy to setup and use.

Everything at a glance.

Who wants a keypad when they can have a crisp and clear LCD display with all current settings displayed?

- entered X and Y slope values, RPM selected, battery status and mode selections are clearly displayed and can be overlooked at just a glance. Now there are no more excuses for mistakes in setting of the laser.

Waterproof or just protected against rain?

Is a laser waterproof when it can withstand water and rain? (IPX6) – we don’t think so – all Mikrofyn lasers are tested to withstand 3m head of water (IP68) – now that’s waterproof.

This also means that our lasers are completely dustproof.

The most accurate laser in its class

Mikrofyn is renowned for producing precision lasers. We have used this experience to design the mechanics to a high standard ensuring an unbeatable accuracy of 1mm/20m.

Build like a crash helmet

The lasers are build to be strong and robust. The rotor head, gearbox and electronics are incased in a very robust housing made of the same composite material as used for crash helmets.

Selection of slope in both X and Y

As something very special for a laser in this price class, the ML14i can work with grades up to 15% in both the X and Y direction.

Select the scan mode

The ML14i works with a visible laser beam. The unique scan function, where the laser beam scans rapidly back and forth, increases visibility by as much as 20 times compared with normal rotation.

Select the rotation speed

With selectable rotation speed from 0 to 600 RPM the ML14i laser will meet all your needs – even if you choose to use the laser for machine control.

- do you want to work on first class..?
- do you want a multipurpose laser that fits your needs? 

Yes - why not buy a laser that is perfectly suited for your job? We call the laser series “multipurpose lasers” because they are just that. You can always find the exact needs - whatever your job might be. As no other manufacturer we have looked into our customers daily problems and needs for special applications to solve their job efficiently.

If you need is for a tough level laser that will work every day - that's self leveling and easy to use - and will work with machine control - we offer you the ML10s.

If you instead need a laser for installing and laying out walls and foundation corners - checking parking lots sloping in both directions or transferring points up through multiple floors - we offer you the ML13s.

As we say - “have it your way”.

- do you need a compact and protective case for all your equipment? 

All Mikrofyn multipurpose lasers are supplied in a sturdy carrying case. The case will fit the laser and all necessary accessories - your laser receiver, the charger, extra battery, wall bracket and everything else will fit into the case. Even though everything fits into one case we have managed to keep the case so compact that it can be stowed under or behind the seat of your car. In fact - the case for the ML10-13 lasers is less than 13cm thick.

When transporting your laser you don’t have to worry about wear and tear as the laser is very well protected by the case.

- do you want a multipurpose laser sturdy as a crash-helmet?

100% watertight and shock-proof

You know the situation - your laser is accidentally knocked over in a puddle of water. If the water doesn’t destroy your laser the shock will. That’s why we have designed your Mikrofyn laser to withstand a 2m drop and survive on the bottom of the lake 3m below the water surface.

Mikrofyn laser receivers include the HS10 and the HS14. Both receivers have the unique LCD-display, bright LED for laser detection, audio guidance for right level and they are of course 100 % waterproof. Also, with just one finger you get total control with the HS14 2-in-1 remote control and hand-held receiver. This combines the laser receiver and the remote control in one small sensor unit for your convenience.

- do you want an interior multipurpose laser that is as tough as they get?

Take the toughest exterior laser you can buy - then add the functionality of the best interior lasers you can find - then you’ve got the Mikrofyn multipurpose lasers ML14/ and ML15.

Both lasers feature visible laser beams - and as if this wasn’t enough - the scanning function will increase visibility by as much as 20 times, ensuring greater distance and better visibility in bright sunlight.

Remote control

Both lasers are supplied with the unique HS14 combined 2-way remote control and laser receiver. The HS14 is in essence labor saving. It will enable you to remotely access all laser functions across the entire work site. Eight selectable radio channels will ensure undisturbed functionality on a crowded worksite.

- do you also miss an extra hand for the remote control?

With Mikrofyn you don’t have to use both hands to remotely control the beam adjustment on your laser.

We have combined the laser receiver and the remote control in one small sensor unit for your convenience. One finger is all you need to have total control.

2-way radio communication

Instead of IR we use 2-way radio communication for the HS14 remote control. This gives you a number of advantages - for example the freedom to move around as you no longer have to be on the right side of the laser in order to target the IR eye.

A total of eight selectable radio channels ensures undisturbed functionality and convenient access to all laser functions across the worksite typically as far as 60m away from the laser.
- do you want a multipurpose laser with a fast and easy setup?

**Fast and Easy Setup**

Fully automatic self-leveling allows the operator to setup with just the push of one button. No level bubbles or screws to adjust! During work, the automatic self-leveling keeps the beam horizontal, even if the laser is exposed to knocks and vibration.

**Alarm function**

If the laser is exposed to shock or vibrations whilst working in the slope mode you will be warned by the level alarm.

**NEW SmartSlope™ Automatic Slope Check**

Mikrofyn presents the new and improved software for our Mikrofyn multipurpose laser series. The SmartSlope™ feature improves the overall accuracy of the ML11, ML13 and ML14 lasers when working with slope.

It is widely known that aluminium tripods shift with temperature. The SmartSlope™ solves the problem in the most advanced way by measuring the current temperature, memorising it and comparing it with the initial temperature. The laser re-levels and re-enters the slope automatically if there is any change in temperature. If there is no change in temperature, the SmartSlope™ re-levels every ten minutes. This ensures you the best possible precision.

The SmartSlope™ can be added to older lasers by updating the software.

We will save you a fortune

When you add up the cost of buying standard batteries you will know why all Mikrofyn lasers are powered by a commonly used rechargeable battery (Makita™ type). The one-hour charger automatically shuts off when the battery is fully charged. This feature protects from over-charging batteries.

One battery, nine lasers

One battery, nine lasers. Low cost off-the-shelf rechargeable standard battery fits all Mikrofyn multipurpose lasers.

Standard battery

No need for expensive special battery packs to power Mikrofyn multipurpose lasers.

The battery is easy to change without tools

The battery is available from local tool shops or from your Mikrofyn distributor.

One-hour recharging provides 20 hours working time

Recharging takes less than one hour. Recharging takes less than one hour.

Use your Mikrofyn lasers for:

- Wall-mount when installing ceiling grids
- Plumb function
- Construction work
- Laser mounted on a batter board
- Drainage works and sloping surfaces
- 30° split beam and vertical function

**Perpendicular reference function**

Position the laser in the vertical position on the batter board, tripod or on the floor. The plumb beam and the rotating laser beam now forms a perfect 90° angle and it becomes very easy to construct foundation corners or to erect walls in a perfect perpendicular angle to the reference as well as checking the plumb.

**Visible laser beam function**

For many interior applications the visible laser beam will give you more opportunities and better flexibility - you can now use both hands when working with heavy tools or in awkward positions. Mikrofyn gives you the choice between two powerful lasers visible at distances up to 60 or 120 meters.

**Unique “search-and-align” function**

Position the laser over the reference point - walk up to the other end of the factory hall and place the HS14 combined receiver and remote control over the other reference point - press one button and the laser automatically aligns itself. A very practical function if you are alone and 6m up a scaffold. Works both in horizontal and vertical mode.

**Waterproof - or just protected against rain?**

Mikrofyn lasers are designed and manufactured in Scandinavia. That’s why our lasers are built to survive the sometimes harsh Scandinavian climate.

You might think that a laser is waterproof if it can withstand water and rain (IPX6) - we don’t. A temperature drop caused by chilled rain will make these lasers suck moisture like a sponge.

That’s why all Mikrofyn lasers are tested to survive submersion to 3m head of water (IP68) - now that’s truly waterproof.

**NEW SmartSlope™ Automatic Slope Check**

- do you want a multipurpose laser waterproof to 3m head of water?

**Perpendicular reference function**

Position the laser in the vertical position on the batter board, tripod or on the floor. The plumb beam and the rotating laser beam now forms a perfect 90° angle and it becomes very easy to construct foundation corners or to erect walls in a perfect perpendicular angle to the reference as well as checking the plumb.

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