

Leica Builder ... Built to Build



- when it has to be **right**

Leica
Geosystems

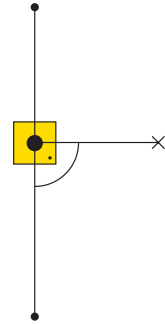
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"Instead of tediously setting up strings, with the Builder T100 my masons can start work right away."



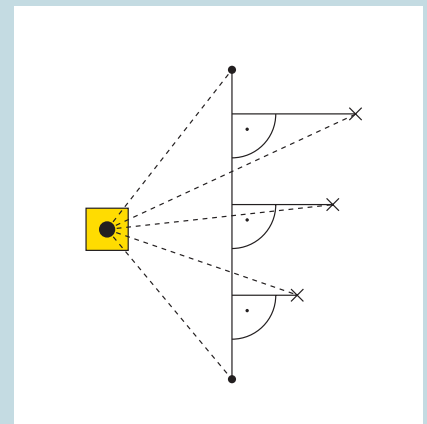
The Builder T100 or T200 can determine fill and drag points, define right angles and slopes.



"The Builder R100 gives me a lot of freedom. I can decide to perform layouts or control measurements at any time and on my own – regardless of how the construction data was prepared. The easy set-up makes it a smooth operation!"



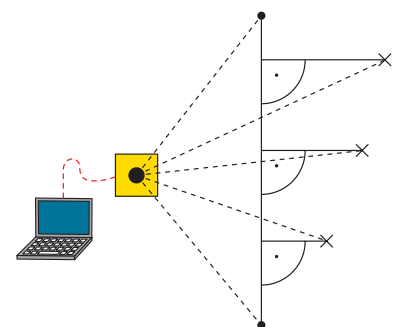
The Builder R100 or R200 determines a target with electronic laser distance measurement. In combination with the angle measurement, it is possible to determine the position of a point to a line and even the height of the point to a reference point with a single measurement.



"The designers simply hand me the data file. I load it into the instrument and can start staking out right away, without having to enter a single number while in the field."



The Builder R100M and R200M with built-in memory, saves and transfers measured data via an interface between the Builder and a PC.



Builder T100/T200 – The Extremely Fast Electronic



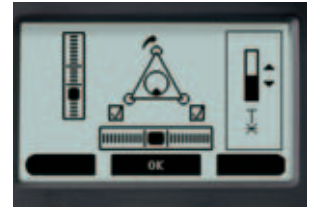
Clear View

High resolution graphic display, instantaneous and clear under any lighting condition. Angles are displayed up to 1mgon or 1".



Easy Set Ups

The laser plummet and the exclusive graphic levelling aid make set-ups extremely easy.



Automatic Compensation

Compensation of vertical and horizontal reading guarantees minimal vertical axis errors and fast measurements.

Builder R100/R200 – Layout Laser Distance Me



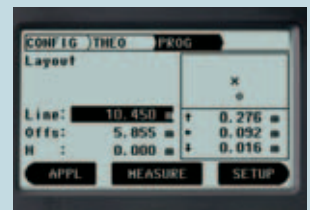
Electronic laser distance measurements

The unique combination of a red laser and a flat prism allows the Builder R to measure distances up to 250 m (830'), or 80 m (265') reflectorless.



Free Set Ups Possible

The Builder R does not require line-of-sight or known point set-ups. Set-up points can be freely chosen to keep construction in sight.



Implementing the plan is easy

Simply set up and level the Builder. Call up the 'layout' function, enter the value and point the instrument towards the target.

Builder R100M/R200M – The Digital Construct



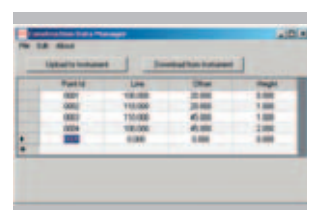
Call up plan data

Enter the data at the office and simply call it up at the site.



PC Interface

Upload and transfer data simply via the on board data RS232 connection.



Editing data

Save data as tables, or process values as north/east or line and offset points.

onic Theodolite



Leading Edge Measuring Technology
Continuous drive, absolute angle sensors and crystal clear telescope optics turn working with the Builder into immediate fun.

Functions of the Builder T:

- Set angles
- V display in degrees or as percentage of inclination
- Sector "Beep" signals right angles acoustically
- Hz display clockwise or counter clockwise
- Checks level positioning with the graphic leveling aid

Specifications of the Builder T100/T200	
Angle Measurements	
Standard deviation	ISO 17123-3
T100	9" (directional deviation 4 mm at 100 m)
T200	6" (directional deviation 3 mm at 100 m)
Compensator	2-axis electronic Operating range +/-4'
Telescope	
Magnification	30 x
Field of view	2.4 m at 100 m
Minimal target distance	1.7 m
Display	
Angle display	up to 1" (1mgon)
Screen/keypad	160 x 280 pixels or alpha numeric 8 x 31 characters, both sides optionally

asurements Directly from the Construction Plans



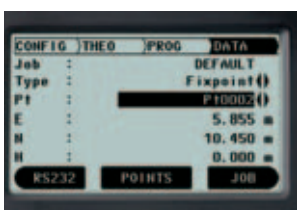
Graphic Sketches
Graphically display the most significant outline points of the site in a sketch format for fast ID and reference.

The Advantage of the Builder R:

- Even an inexperienced operator can implement a construction plan or perform a control measurement
- The clearly arranged built-in functions "Layout", "As-Built", "Tie Distance" and "Area" reduce work to a minimum.

Additional Specifications of the Builder R100/R200	
Distance Measurements	
Standard deviation	ISO 17123-4 3 mm + 2 ppm
Range	80 m (265') on Kodak Gray Card 250 m (830') on flat prism
Time for a measure	< 2 s typical on flat prism
Telescope with EDM	
Field of view	2.7 m at 100 m

ion Plan



Data Exchange
Read or load data saved in tables with a single button press.

Advantages of the Builder RM

- Receiving and transmitting measured or layout data via digital files increases processing efficiency
- Read and write errors are eliminated
- Data is saved and managed on a PC
- Designs can be implemented directly from the planning stage

Additional Specifications of the Builder R100M/R200M	
Communication	
Internal memory	10'000 Data blocks
Interface	RS232/USB up to 19'200 Baud

General Specifications for all Builders	
Weight	
incl. battery and tripod	4,3 kg (Builder T) to 5 kg (Builder R/RM)
Power Pack	
Types of batteries	NiMH Camcorder types or 6 AA-batteries
Laser Plummet	
Precision	1.5 mm at 1.5 m
Environmental Conditions	
Temperature	-20 to +50° C (operation), -40 to +70° C (storage)
Humidity	max. 95 %, non-condensed
Dust and rain	IP54 (IEC 60529)

Laser Measurement Accelerates Building Process

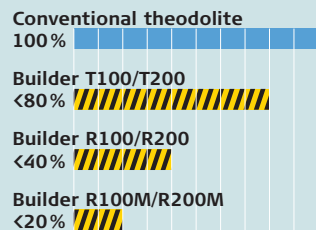


Return On Investment

The Builder can save considerable time compared to conventional methods, resulting in potential time savings of 20% – 80%.

Working hours

(estimates, depending upon application)



"Thanks to the Builder, I could immediately see the time savings possible on the jobsite. Because of its' easy handling, I quickly understood how to optimize each job. After using it, I can't imagine working without the Builder."

Why is the Builder theodolite the best choice?

- ... because it is the only modular theodolite that can grow with your needs.
- ... because the operation is so simple.
- ... and because its performance features are second to none.

Built for Builders

The rugged Builder takes all kinds of weather. And yet it's easily to transport in the carry case that holds most accessories.

Does your crew speak different languages? Ours does.



The Builder is the only instrument of its class with multiple languages onboard. This allows the user to choose the preferred language – simply and with only one keystroke, for improved efficiency and convenience.

Accelerates Building

Traditional layouts require many steps and manipulations. The Builder reduces these steps considerably.

A New Era

The era of purely mechanical or optical instruments is over. This is the digital era where digital instruments are needed to remain competitive. The digital Builder leads the way in this new era.

Get a Hands-On Experience!

Contact your Leica Geosystems dealer for a free Builder demonstration today!



Whether you have to precisely layout a construction site, perform control measurements, collect height and angle data, align concrete forms, install ceilings and partitions, lay gravity flow pipe, locate underground services or complete site preparation and earthworks – Leica Geosystems offers the right instrument, construction laser or machine control installation specifically designed for your construction application.

Easy-to-use, jobsite tough, accurate and reliable – Leica Geosystems instruments and lasers ensure the efficient use of your materials and resources. High quality products, such as optical and electronic levels, construction lasers, total stations and machine automation systems, provide fast results, keep you working and increase your profitability.

When it has to be right.

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**Total Quality Management –
our commitment to total
customer satisfaction.**

Ask your local Leica Geosystems
dealer for more information
about our TQM program.

Distance meter (RL), Laser plummet:
Laser class 2 in accordance with
IEC 60825-1 resp. EN 60825-1

