

# Leica Racer 70/100

Tough and Precise  
Laser distance meters



- when it has to be **right**

**Leica**  
Geosystems

## Leica Racer 70 Functions

### Continuous measurement, tracking function

suitable for staking out any distances.

### Minimum distance measurement

Allows horizontal or vertical measurement in which the shortest distance is automatically displayed.

### Maximum distance measurement

Allows diagonal measurement into corners in which the longest distance is automatically displayed.

### Plus, minus

Distances, areas or volumes can be added or subtracted.

### Area and volume measurement

The area or volume is automatically calculated from two or three measurements (length, width, height). Supplementary information such as circumference, wall area, floor or ceiling area are displayed at the touch of a button.

### Pythagoras functions

Allow distances to be determined when direct measurement is impossible. The distance is automatically calculated from two or three measurements.

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Years Warranty

 **Swiss Technology**  
by Leica Geosystems

# Precise Measurements with Leica laser distance meters

## Leica Racer 70 Tough and Reliable



70 Range up to 70 m



Drop tests from 2 m height



IP65 – dust-proof and jet water protected



Functions	Leica Racer 70	Leica Racer 100
Measure horizontal distances, even past obstacles		✓
Measurement of tilts $\pm 45^\circ$		✓
Horizontal Measurements		✓
Automatic calculation of room dimensions e.g. wall and ceiling areas	✓	✓
Indirect height and distance measurement to inaccessible places	✓	✓
Addition and subtraction of distances, areas and volumes	✓	✓
Distance measurements including area, volume and continuous measurement	✓	✓

## Accessories



**Laser glasses**  
Art. No. 723777  
For better visibility of the laser dot outside



**Tripod Leica TRI 100**  
Art. No. 757938  
Quality tripod with very easy fine adjustment



**3 in 1: Laser-visibility, safety, sun glasses**  
Art. No. 780117  
With 3 different lenses



**Softbag**  
Art. No. 667169



## Leica Racer 100 Precise and Multi-Talented



Range up to 100 m



Direct keys for main functions



Automatic keypad and display illumination



Tilt measurement



Horizontal distance



Single and Double Pythagorean measurements



Technical Data	Leica Racer 70	Leica Racer 100
Typical measuring accuracy	± 1.5 mm	± 1.0 mm
Range	0.05 – 70 m	0.05 – 100 m
Measuring units	0.000 m, 0'0" 1/8, 0 in 1/8, 0'00" 1/16, 0 in 1/16, 0.00 ft	0.000 m, 0.000° m, 0.00 m, 0.00 ft, 0' 00" 1/2, 0.0 in, 0 1/2 in
Recall last values	10	20
Display illumination	Permanent	Automatic
Measurements per set of batteries	up to 5000	up to 5000
Protection class	IP65; dust-proof and jet water protected	IP54; spray water and dust protected
Tripod thread	no	yes
Batteries	2 x AAA (1.5 V)	2 x AAA (1.5 V)
Dimensions	122 x 55 x 28 mm	125 x 45 x 24 mm
Weight with batteries	159 g	110 g

## Leica Racer 100 Functions

### Tilt measurement

The tilt sensor measures tilts up to  $\pm 45^\circ$  and a typical use is for determining the pitch of a roof. When measuring tilts, the instrument should be held in the horizontal position ( $\pm 10^\circ$ ).

### Horizontal distance

The tilt measurement function allows you to determine a horizontal distance even if the target point is not directly visible.

### Room corner angle function

The angle in a triangle can be determined by measuring the three sides. This function is suitable for e.g. checking a right-angled room corner. First, measure the two shorter sides and then take the length of the diagonal as the third measurement. The device then displays the room angle.

### Staking out function

Two different distances can be entered into the instrument and then subtracted from specific measured lengths. This enables you to see the direction in which the Leica Racer 100 must be moved, the display shows a direction arrow with the current staking-out distance.

### Single Pythagorean measurement

Just two measurements are enough to indirectly calculate the horizontal or vertical distances. It is important to ensure the 2nd measurement is at right angles to the target object.

### Double Pythagorean measurement

Using a tripod you can measure horizontal and vertical distances. The Leica Racer 100 determines the results for you out of three measurements.



Stick-on target plates (147 mm x 98 mm)  
Art. No. 723774  
For fixing on edges

Setup target plate (197 mm x 274 mm)  
Art. No. 766560  
For placing on ground markers

Target plate (DIN A4)  
Art. No. 723385  
With two different surfaces, recommended from 50m



Whether you have to precisely lay out 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, Laser distance meters 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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Ask your local Leica Geosystems dealer for more information about our TQM program.



Laser class 2  
 in acc. to IEC 60825-1



**Leica Builder**  
 The theodolite built for builder



**Leica Rugby**  
 260SG, 270SG, 280DG  
 Keeps you working



**Leica Sprinter**  
 One-button digital level



**Leica Piper**  
 The world's most versatile pipe laser