



Version 1.0
English

Leica TS30/TM30

Quick Guide

- when it has to be **right**

Leica
Geosystems

1 Important Information about your Instrument



Read and follow the User Manual on the accompanying DVD before using the product.



Keep for future reference!

Intended use

- Measuring horizontal and vertical angles.
- Measuring distances.
- Visualising the aiming direction and vertical axis.
- Measuring raw data and computing coordinates using carrier phase and code signal from GNSS satellites.

Laser products

The TS30/TM30 instrument contains the following laser products:

Laser product	Laser class
EDM (Electronic Distance Measurement) module <ul style="list-style-type: none">• measurements with reflectors• measurements without reflectors	Class 1 Class 3R
ATR (Automatic Target Aiming)	Class 1

Laser product	Laser class
PS (PowerSearch)*	Class 1
EGL (Electronic Guide Light)*	Exempt Group
Laser plummet	Class 2

*for TS30 only

- The classification for the EDM, ATR, PS and Laser plummet is in accordance with IEC 60825-1 (2007-03).
- The classification for the EGL is in accordance with IEC 62471 (2006-07).



CAUTION

From a safety perspective, class 3R laser products should be treated as potentially hazardous.

Precautions:

- 1) Prevent direct eye exposure to the beam.
- 2) Do not direct the beam at other people.



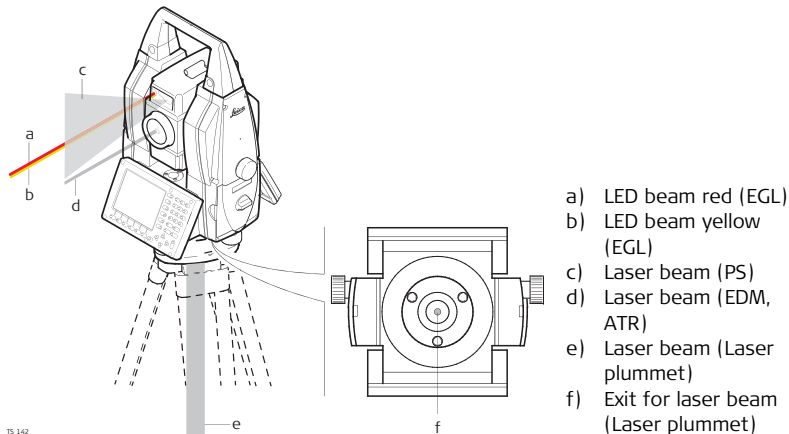
CAUTION

From a safety perspective, class 2 laser products are not inherently safe for the eyes.

Precautions:

- 1) Avoid staring into the beam.
- 2) Avoid pointing the beam at other people.

Locations of laser apertures



TS_142



The product must not be disposed with household waste.

Conformity to national regulations

- FCC Part 15 (applicable in US).
- Hereby, Leica Geosystems AG, declares that the instrument with Communication side cover is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. The declaration of conformity may be consulted at <http://www.leica-geosystems.com/ce>.



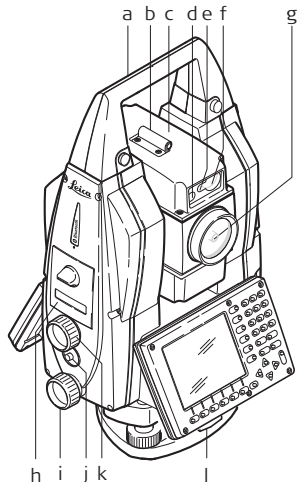
Class 1 equipment according European Directive 1999/5/EC (R&TTE) can be placed on the market and be put into service without restrictions in any EEA Member state.

- The conformity for countries with other national regulations not covered by the FCC part 15 or European directive 1999/5/EC has to be approved prior to use and operation.
-

2 Instrument Components

Instrument components part 1 of 2

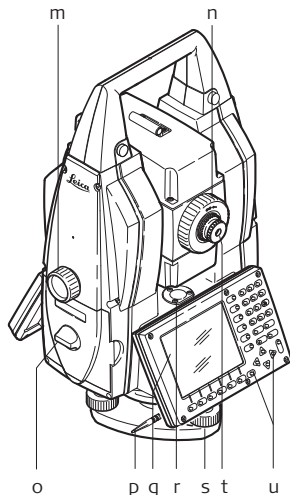
A TS30 instrument is shown.



TS30TM30_001a

- a) Carry handle
- b) Optical sight
- c) Telescope, integrating EDM, ATR, for TS30 also EGL, PS
- d) EGL, for TS30
- e) PowerSearch, transmitter, for TS30
- f) PowerSearch, receiver, for TS30
- g) Coaxial optics for angle and distance measurement, and exit port of visible laser beam for distance measurements
- h) CompactFlash card compartment
- i) Horizontal drive
- j) User defined SmartKey
- k) Vertical drive
- l) Tribrach securing screw

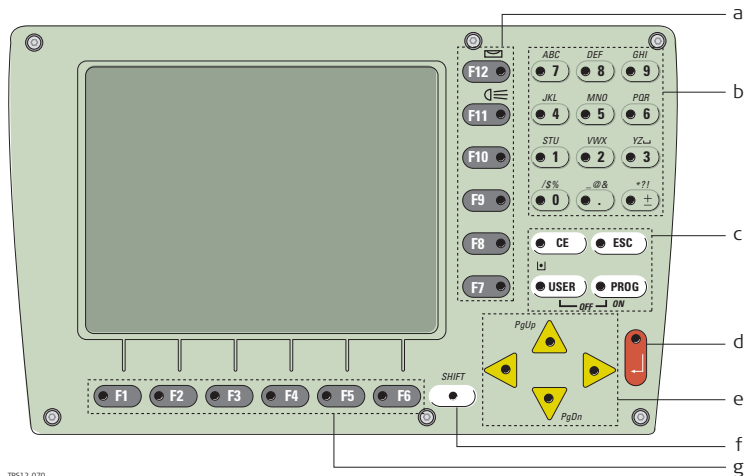
Instrument components part 2 of 2



TS30/TM30_001b

- m) Vertical drive
- n) Focusing ring
- o) Battery compartment
- p) Stylus for touch screen
- q) Screen
- r) Circular level
- s) Tribrach footscrew
- t) Interchangeable eyepiece
- u) Keyboard

Keyboard TS30/TM30



TPS12.070

a) Function keys F7-F12

User definable keys to execute chosen commands or access chosen screens.

Note: The hot key F13, the user-defined SmartKey, is located between the horizontal and vertical drive on the right hand side cover.

- b) Alphanumeric keys
To type letters and numbers.
 - c) CE
Clears all entry at the beginning of user input. Clears the last character during user input.
ESC
Leaves the current screen without storing any changes.
USER
Calls the user-defined menu.
PROG
If the instrument is already off: Turns on the instrument. If the instrument is already on: Press at any time to select an application program.
 - d) Enter
Selects the highlighted line and leads to the next logical menu / dialog, starts the edit mode for editable fields or opens a list box.
 - e) Arrow keys
Move the focus on the screen.
 - f) SHIFT
Switches between the first and second level of function keys.
 - g) Function keys F1-F6
Correspond to six softkeys that appear on the bottom of the screen when the screen is activated.
-

3 Technical Data

Environmental specifications

Temperature

Operating temperature [°C]	Storage temperature [°C]
-20 to +50	-40 to +70

Protection against water, dust and sand

IP54 (IEC 60529)

Humidity

Max 95 % non condensing.

The effects of condensation are to be effectively counteracted by periodically drying out the instrument.

4 Care and Transport

Care and transport

- Carry the product in its original container or carry the tripod with its legs splayed across your shoulder, to protect the product against shock and vibration.
 - Periodically carry out test measurements and perform the field adjustments indicated in the User Manual, particularly after the product has been dropped, stored for long periods or transported.
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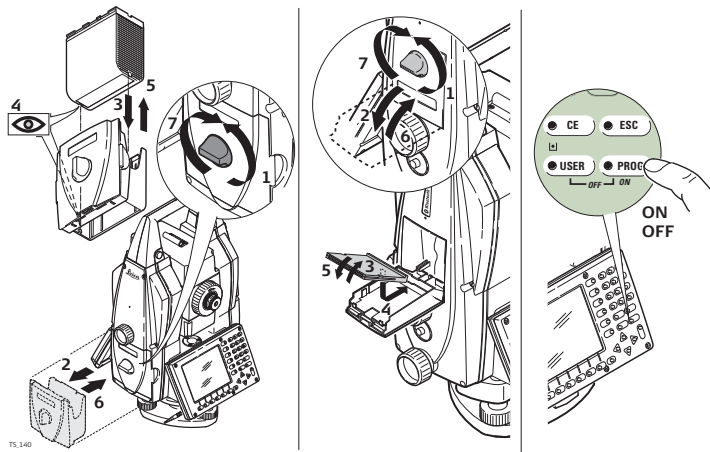
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Operation



The battery must be charged before using it for the first time.

Turning on and off the instrument



Total Quality Management: Our commitment to total customer satisfaction.



Leica Geosystems AG, Heerbrugg, Switzerland, has been certified as being equipped with a quality system which meets the International Standards of Quality Management and Quality Systems (ISO standard 9001) and Environmental Management Systems (ISO standard 14001).

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

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