

WILD T16

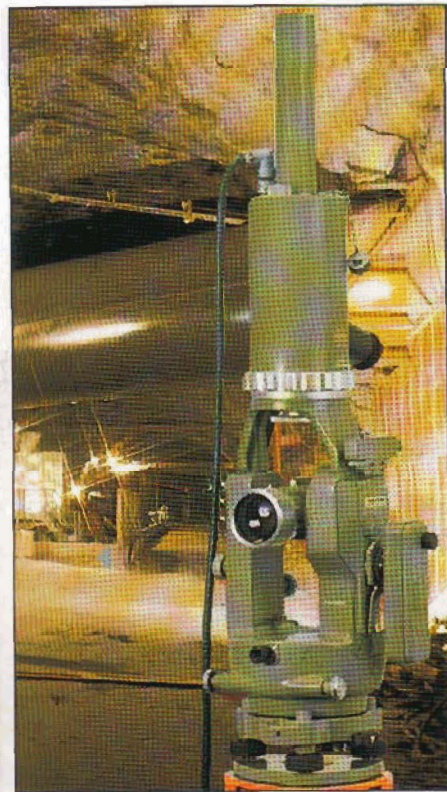


Leica

WILD T16 scale-reading theodolite: simultaneous display of Hz and V circles

The Wild T16 scale-reading theodolite is the perfect instrument for outstanding reliability even under extreme conditions. Well over 100 000 instruments worldwide are the proof. Its large scales show horizontal and vertical circle readings at a glance. The Wild T16 ensures accurate and economical surveys.

Its automatic index uses the practice-tested pendulum compensator. Together with the circle clamp for setting zero, repetition, and orientation of the horizontal circle, it simplifies the surveyor's task and ensures greater accuracy.



An example of the wide range of Wild accessories available for the Wild T16 is the Wild GAK1 gyroscope attachment for determining true north in twenty minutes to an accuracy of $\pm 20''$. It permits autonomous orientation of measured points and the determination of direction in long traverses.

Wide choice of accessories

Based on a detachable tribrach, the time-tested Wild forced-centring system makes the Wild T16 a truly universal instrument for surveying, building and civil engineering, mining, and machine building. There is also an unsurpassed choice of accessories for the eyepiece, objective, telescope standards, and circle lighting. For further details, ask for brochure G1 279 e.

Special eyepieces with bayonet fitting

A bayonet fitting makes standard and special eyepieces readily interchangeable.

Bright, high-contrast image

Reduction of the secondary spectrum ensures practically perfect colour correction of the telescope's optics. It provides an erect, bright, high-contrast image at $30\times$ magnification that permits precise pointing even in poor light. The lenses have an anti-reflection coating to increase the brightness of the image. This is invaluable in twilight and pointing to a poorly lit target. The telescope reticle has 1:100 stadia lines for tacheometric work.

Optical sight

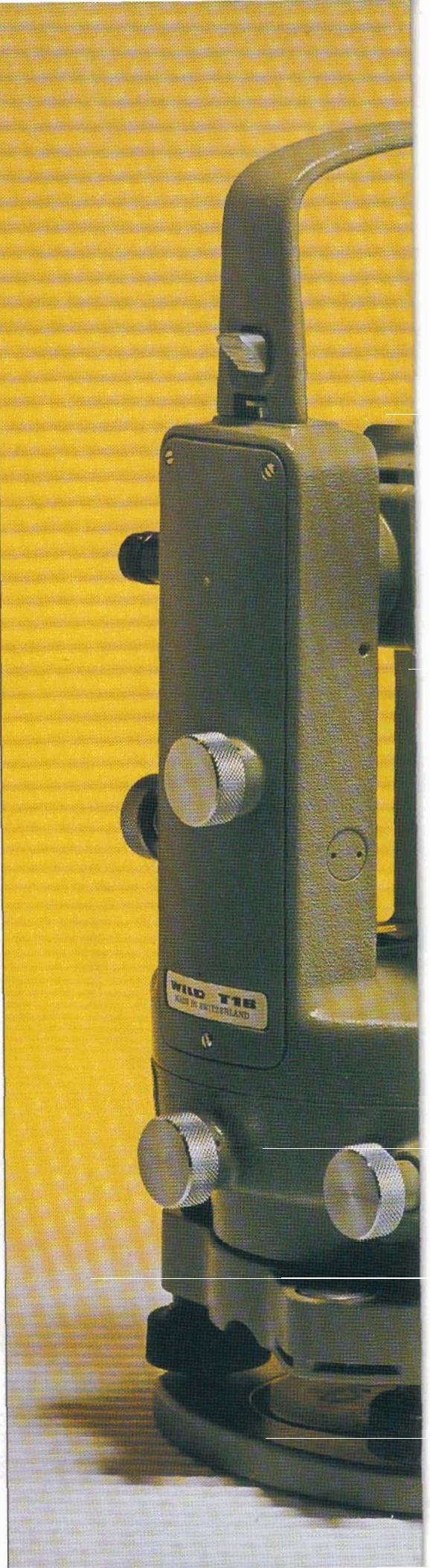
The telescope has an optical sight, with a bright white cross for fast, easy pointing.

Convenient coarse-fine focusing

The two-speed focusing ring is designed for accurate focusing. For faster focusing, arrows on the telescope indicate the ∞ setting.

Fully transiting telescope

The telescope transits in both directions for observations in both faces, even when objective or eyepiece accessories are fitted. It also remains fully transiting with a large choice of DISTOMAT models.



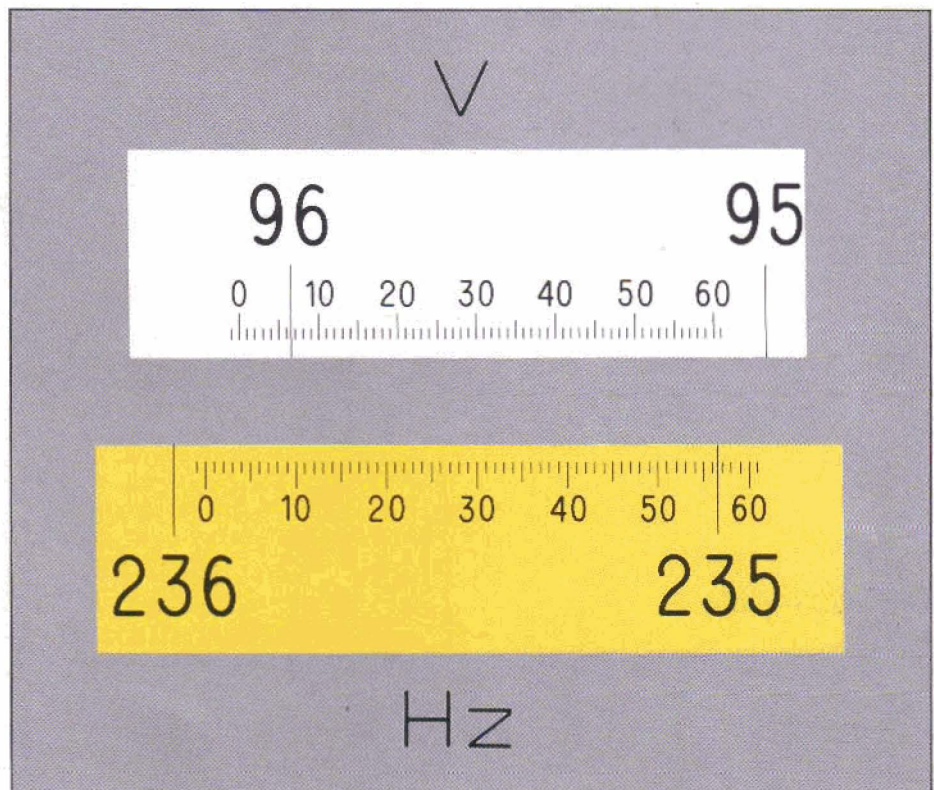
Sophisticated design, features of proved worth

Both circle readings at a glance

The reading microscope is parallel to the telescope. Both circles are easy to read, whatever the telescope position. To prevent mistakes, the horizontal circle is a brilliant yellow. A large adjustable mirror in the telescope standard ensures bright circle illumination. A handy plug-in lamp or a lamp insert with a battery box are available for working in poor light.

Large scale interval

For fast, easy surveying, the scales have large minute intervals that facilitate interpolation by estimation.



360° reading: Hz 235° 56.4' V 96° 06.5'

Circle clamp for initial bearings

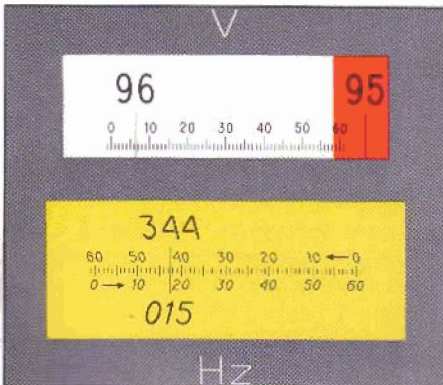
The horizontal circle is adjustable and may be set to any initial bearing.



Red warning screen

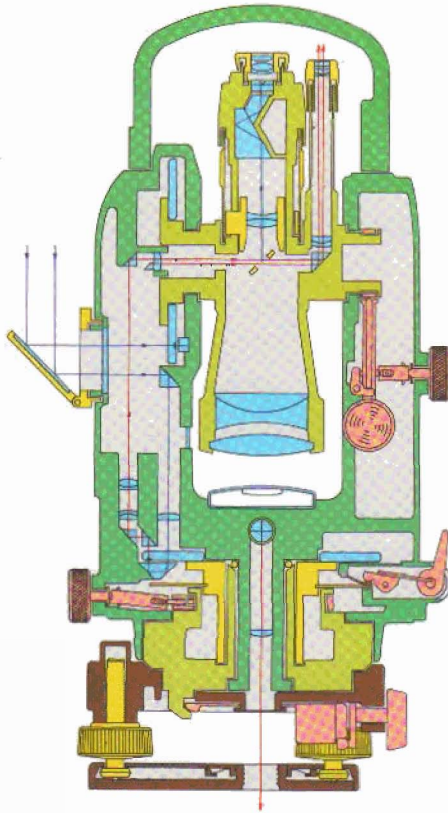
A red screen in the visual field of the vertical circle warns the user if the instrument is not level. For special applications on an inclined plane, i.e. with the standing axis not vertical, we can supply the T 16 with a fixed index.

Circle readings on a 360° T 16 D:
Hz clockwise 15° 17.4'
Hz counterclockwise 344° 42.8'
The red screen shows that the instrument is not level.



Choice of circle divisions

The T 16 is available with circles divided into 400gon, 360°, and 6400 mil. On request, the 360° model can also be supplied with 20" scale intervals with clockwise and counterclockwise numbering.



High-quality axis systems

For decades, the cylindrical standing axis of extra-hard nitralloy steel has proved its worth in Wild theodolites. Ball-bearings support the weight of the alidade and centre the axis system. This practically maintenance-free design can cope with extreme conditions of use and is the secret of the accuracy and perfect functioning of the T 16. The tilting axis is of brass to prevent magnetic fields from influencing the accuracy of a compass that may be attached to the instrument.

Automatic index

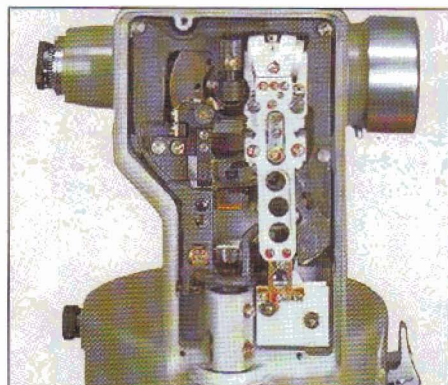
The T 16 has an automatic index, developed with the know-how from building tens of thousands of Wild automatic levels. Its precise centring and superb damping ensure accurate surveys; an index level is superfluous.

Ergonomic design

The clear layout of the control elements on the alidade is designed for the human anatomy. Clamps and drives are arranged for two-handed control of the instrument, for example to determine the azimuth and elevation of a target. Stops protect the clamps against overtightening. Axes and instrument housing are sealed against dust and humidity. For centring the instrument, the optical plummet in the alidade has a focusing range from 0.50 m to ∞.

Tribrach for forced centring

The detachable tribrach is designed for fast, accurate interchange of the theodolite against a reflector, target, optical plummet, etc. A central-pivot locking mechanism engages the three studs of the centring flange without lateral pressure and holds the instrument firmly in the tribrach dish. The locking knob can be secured against accidental release. The self-regulating, maintenance-free footscrews are sealed against dust and dirt, and permanently ensure smooth, slack-free movement.



Safe transport

The case for the T 16 is made of high performance synthetic material with integrated foam-padded inserts. This watertight, dustproof, impact-resistant case offers the T 16 the perfect protection it deserves and provides ample space for accessories.

The easy way to build up a versatile total station

Ideal for

Triangulation

Traversing

Cadastral surveys

Tacheometric surveys

Setting-out
and alignment

Trigonometric
heighting

Determining
control points

Utilities surveys

Compass traverses

Built-in reliability

Standing axis of
nitralloy steel

Bright, high-contrast
telescope image

Both circle scales
at a glance

Clamp and fine drive
for orientation of
horizontal circle

Automatic index

Wild modular survey system

A special feature of the Wild modular system is the compatibility of Wild optical theodolites with any DISTOMAT. With a DISTOMAT and a GTS 5 optional keyboard, you can build up your Wild T16 into a high-performance total station at modest cost. The weatherproof GTS 5 keyboard weighs only 100 g (3½ oz) and fits into an adapter next to the instrument.

You can use the GTS 5 to compute reductions and to correct measured values in the field. Whatever the task, there is a modern, high-performance model in the Wild DISTOMAT range to make your life in the field easier.

Wild DISTOMAT™ DI 1001

Economical, handy, compact, easy-to-use close-range EDM. It weighs a mere 500 g (1.1 lb) and has a standard deviation of 5 mm + 5 ppm.

Range: 800 m to one prism,
1300 m to three prisms.
See brochure G1 388 e.

Wild DISTOMAT™ DI 1600

This medium-range EDM is a compact, very versatile EDM. It takes only two seconds to measure distance up to 5 km and has a single-prism range of 2.5 km. It weighs only 600 gr (1.3 lb) and has a standard deviation of 3 mm + 2 ppm.

See brochure G1 388 e.

Wild DISTOMAT™ DI 2002

The DI 2002 is a short- and medium-range precision EDM. It is the smallest, most accurate, most 'intelligent' DISTOMAT, with a standard deviation of 1 mm + 1 ppm and a single-prism range of 2.5 km. The DI 2002 has four measuring modes and an INFO key for supplementary information such as standard deviation, strength of signal received, measuring frequency, etc. For full details, see brochure G1 388 e.

Wild DISTOMAT™ DI 3000

This universal long-range EDM is also suitable for non-geodetic applications. It features fast measurement, high accuracy, and long range. The sophisticated pulsed-time system provides distance measurement up to 14 km with geodetic accuracy at a standard deviation of 3 mm to 5 mm + 1 ppm in fractions of a second.

The WILD DIOR 3002, a special version of the DI 3000, is used for distance measurement up to 250 m without need of a reflector. Ask for detailed brochures G1 356 e and G1 363 e.

But you can also use an older DISTOMAT with the Wild T16, such as your present DI5, DI4, DI4L, DI20, DI1000 or DI2000.

Computing reductions with the GTS 5 optional keyboard

This keyboard is fast and easy to use. Input the vertical angle; it computes horizontal distance and height difference, taking earth curvature and mean refraction into account. Input the horizontal angle; the GTS 5 displays coordinate difference. For setting-out, input may include the specified horizontal distance; your DISTOMAT displays the amount by which the reflector should be moved forward or back.

WILD T16 in the comprehensive wild modular surveying system

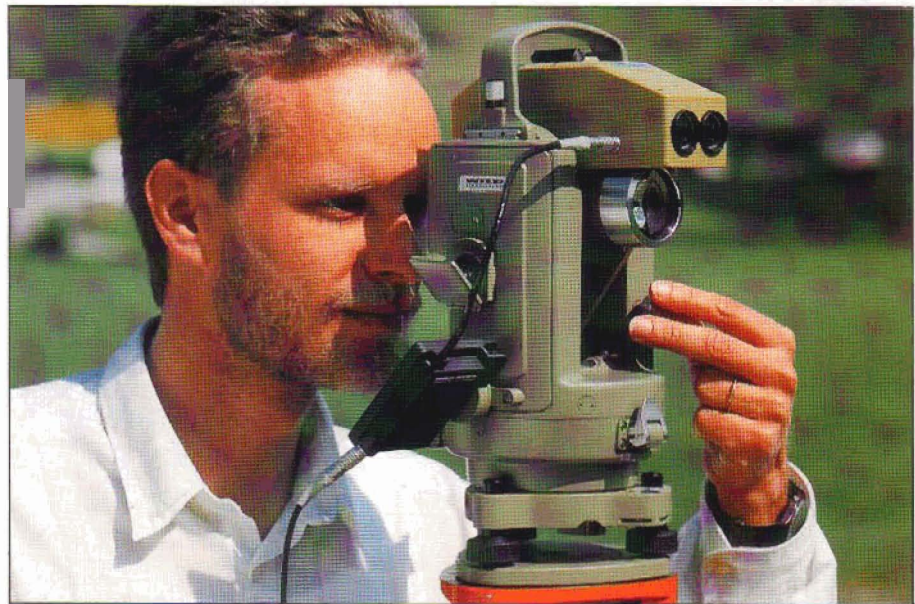
Upgrade your theodolite into a programmable recording total station

The Wild GRE 4n or GRE 4a electronic data terminal can be combined with any Wild DISTOMAT and optical theodolite.



The numeric GRE 4n and the alphanumeric GRE 4a can be used as both electronic fieldbooks and weatherproof field computers. With one of these, the T16 becomes a high-performance programmable recording total station. Input the displayed angles; the GRE 4n/GRE 4a automatically records distance and point number. Both data terminals are userprogrammable. The programs can be selected as necessary to perform computations in the field.

Ask for detailed brochure G1 369 e.



Wild T16 with Wild DISTOMAT and optional keyboard for the computation of reductions



Accessories for any survey task

A comprehensive choice of Wild accessories for theodolites and DISTOMATs further extends the possible range of applications of any Wild instrument. The Wild survey system offers the perfect solution whatever the task in hand.

Ask for the detailed accessories brochures G1 440 e and G1 279 e.

Technical data

Standard deviation to DIN 18 723 of a direction measured in both telescope positions	3"/0.001 gon
Telescope	erect image
Magnification	30 X
Clear objective aperture	1.7 in/42 mm
Field of view at 1000 ft/m	27 ft/27 m
Shortest focusing distance	5.7 ft/1.7 m
Multiplication factor	100
Additive constant	0
Bubble sensitivity per 2 mm	
Spherical level	8"
Plate level	30"
Automatic vertical index	
Setting accuracy	±1"
Working range	±5"
Glass circles	360° or 400 gon
Diameter, divisions of H _z circle	3.70 in/94 mm
Diameter, divisions of V circle	3.10 in/79 mm
Interval of H _z and V circles	1° or 1 gon
Scale interval	1' or 0.010 gon
Estimation to	0.1' or 0.001 gon

Illustrations, descriptions, and technical data are not binding and may be changed without notice.

Leica

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