

David White®



Laser & Optical Instruments Catalog

Nobody Helps You Build Better... since 1895

David White

David White®

David White Company was founded in 1895 in Milwaukee, Wisconsin, U.S.A. Its founder, David White, was born in Hungary on September 26, 1874. His occupation was that of an instrument maker and, after immigrating to the U.S., he originated the company with the help of established relatives in the Milwaukee area. In 1900, he organized a partnership with Charles Klaweithier, manufacturing drawing and surveying instruments. The company was incorporated on June 22, 1912. Its products became widely recognized for craftsmanship in specialized optics.

Today, the David White name continues to provide productivity tools for leveling, layout and measuring in the construction and surveying industries. Its comprehensive line of products includes rotating construction lasers including manual and self-leveling models, optical instruments including levels, level-transits, automatic levels and automatic level-transits.

David White is committed to providing its customers with quality products and superior service.

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Choose the Right Instrument

- 1: Size of Job Site?** This will determine the diameter-distance range required
- 2: Accuracy Needed?** All instruments have accuracy tolerances based on design and range.
- 3: Need to Check Plumb, Level, or Squaring?** Choose a specific tool that does these jobs.
- 4: Outdoor Use?** Use optical or laser instruments that can be used with a detector.
- 5: Is Self Leveling Important?** Yes! For easier and faster set-ups, self-leveling instruments will minimize errors on the jobsite.

Reference Guide— Rotary Laser Accessories

										
	AutoLaser 3110-GR									
	48-3110GR									
	48-3110GR-2							*	*	*
	48-3110GR-3							*	*	*
		Includes Tri-Case, 3-in-1 Carrying Case 						*	*	*
	AutoLaser 3150									
	48-3150	*								
	48-3150I	*	* (2 ea)	*	*					
	48-3150-1	*	* (2 ea)	*	*			*		
	48-3150-2	*	* (2 ea)	*	*			*	*	*
	AutoLaser 3175									
	48-3175	*						*		
	48-3175-1	*	* (2 ea)	*	*			*		
	AutoLaser 3185									
	48-3185							*		
	AutoLaser 3150G									
	48-3150G-I	*	* (2 ea)	*	*					
	48-3150-1	*	* (2 ea)	*	*			*		
	Includes Ni-Mh Battery Pack/Charger							LD18NG Green Beam		
	ML-450N									
	47-4720NT		*							
	47-4720NI	*	*	*		*				
	47-4720N	*	*	*		*	*		*	*

Selection Guide— Specifications

Rotary Laser

Model	Accuracy ± at 100' (30m)	Range Up to w/detector	Self-Leveling	Horizontal Leveling	Vertical Laydown	Scanning Capable	Rotary Speed RPM	Grade/ Slope Capable	Remote Capable
3110GR	1/16"	2800'	Yes, ±5°	•	—	—	600	Built-In/Single	No
3150	1/8"	2800'	Yes, ±5°	•	•	0,10,45,90,180	0,150,300,600	Manual	Yes, Included
3150G	1/8"	660'	Yes, ±5°	•	•	0,10,45,90,180	0,150,300,600	Manual	Yes, Included
3175	1/16"	2800'	Yes, ±5°	•	•	0-359	0-1000	Dial-In/Dual	Yes, Included
3185	1/16"	2800'	Yes, ±5°	•	—	0-359	0-1000	Dial-In/Single	No
4720N	1/4"	800'	No	•	•	0,15,45	0,150,600	Manual	Yes, Included

Line Laser Levels

Model	Laser Diode	Leveling Accuracy ± at 30' (9m)	Working Range (up to)	End to End Line Accuracy ± at 10' (3m)	Leveling Type	Outdoor Use with Detector	Laser Cross Lines	90° Laser Line	Vertical Plumb Dot	Vertical Plumb
MATRX54	635nm (5) 650nm (1)	1/8" (3mm)	75' (22m)	1/16" (1.5mm)	Self-Leveling ±3.5° Gimbel, Magnetically Dampened	•	•	•	•	•
M2XL	635nm (2)	3/32" (2.5mm)	100' (30m)	1/16" (1.5mm)	Self-Leveling ±5° Gimbel, Magnetically Dampened	•	•			
M2LC	635nm (2)	5/32" (4mm)	32' (10m)	3/32" (2.5mm)	Self-Leveling ±5° Gimbel, Magnetically Dampened		•			

Dot Lasers

Model	Laser Diode	Accuracy	Working Range	Laser Dots	Special- Features
M4PL	630-670nm	1/4" at 100' (6mm @ 30m)	up to 100' (30m)	4	Horizontal Laser "Chalkline", Compensator Lock
M4PB	630-670nm	1/8" at 50' (3mm @ 15m)	up to 100' (30m)	4	Built-in Magnetics

Optical Instrument Selection Guide

Levels, Level-Transits

Model	Magnification	Job Range (Up to . . .)	Leveling Accuracy
Meridian L6-20N	22X.....	200 feet.....	± 1/4" @ 75 feet
Meridian LT6-900N	22X.....	200 feet.....	± 1/4" @ 75 feet
LT8-300/LT8-300P	26X.....	400 feet.....	± 3/16" @ 150 feet
LT8-300LTU	26X.....	400 feet.....	± 3/16" @ 150 feet

Automatic Levels

Model	Magnification	Job Range (Up to . . .)	Leveling Accuracy
AL8-22	22X.....	200 feet.....	± 1/16" @ 100 feet
AL8-26	26X.....	300 feet.....	± 1/16" @ 200 feet
AL8-28	28X.....	300 feet.....	± 1/16" @ 250 feet
AL8-32	32X.....	350 feet.....	± 1/16" @ 250 feet

Digital Theodolite

Model	Magnification	Job Range (Up to . . .)	Leveling Accuracy
DWT10	30X.....	400 feet.....	± 1/16" @ 100 feet

AutoLaser® Electronic Self-Leveling Rotary Lasers

To be the best in the business you need job experience and quality tools. David White gives you both. With over a century of construction tool know-how, we offer lasers to help you do your job faster and better. The AutoLaser 3100 Series is no exception. From its electronics to its rugged water and dust-proof outer housing, AutoLaser® is precision made to perform to your highest quality standards

Specifications

Longer Range
2,800'
(850m)

Model	3110-GR	3150	3175	3185
Ideal Application				
Interior		*	*	
Outdoor Jobsite	*	*	*	*
Beam Type	650nm	635nm	635nm	650nm
Range	Up to 2800-ft (853m) Diameter with Detector			
Leveling Type	Electronic Self-Leveling, $\pm 5^\circ$			
Horizontal Leveling	Yes	Yes	Yes	Yes
Vertical Leveling	No	Yes	Yes	No
Grade Capability	Single Axis Slope $\pm 10\%$	Manual Mode	Dual Axis Dial-in $\pm 10\%$	Single Axis Dial-in $+15\%, -10\%$
Accuracy @ 100-ft (30m)	1/16-in (1.6mm)	1/8-in (3.2mm)	1/16-in (1.6mm)	1/16-in (1.6mm)
Power	75 $\pm$ Hours Intermittent Use with Alkaline Batteries. 14 $\pm$ Hours Use with Fully Charged Ni-Cad Battery Pack			
Rotation Speed RPM	Fixed 600	Variable 0,150, 300, 600	Variable 0-1000	Variable 0,150, 300, 600
Visible Split-Beam	No	Yes	Yes	No

AutoLaser® 3185 True Single Dial-in Grade Horizontal Rotary Laser

Designed for ruggedness and easy one-touch operation. The 3185 provides true single dial-in grade range of $+15\%$ to -10% .

Model 3185 Package

48-3185

AutoLaser® 3185 Detector Package

Includes: 4 "D" cell batteries, LD-18N detector, and carrying case



Easy push button keypad with LCD interface



AutoLaser® 3175 Dual Dial-in Grade, Split-Beam Horizontal/Vertical Rotary Laser

"High Powered" Diode with precision and power for both interior and outdoor applications.

The AutoLaser 3175 is the laser of choice for the contractor who needs optimum versatility. Its bright red beam and variable rotation speed offer the flexibility of use with or without a detector for interior and outdoor work.

Model 3175 Packages

48-3175

AutoLaser 3175 Detector Package

Includes: 4 "D" cell batteries, LD-18N detector, remote control, carrying case

48-3175-1

**AutoLaser 3175
Interior-Detector
Package Includes:** 4 "D" cell batteries, LD-18N detector, remote control, wall ceiling/vertical mount, 2 magnetic targets, red laser glasses, carrying case



Set Dual Axis Grade (10%), Sweep (Chalk line), Point-To-Point, and Spot modes allow you to adapt the 3175 to your needs.

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The Job Demands Precision. You Demand Performance. The AutoLaser 3100 Series Delivers.

AutoLaser® 3150 Horizontal/Vertical Visible Split-Beam Rotary Laser



Features

	3110-GR	3150	3175	3185
 LCD Display with dial-in grade capability			*	*
 Scanning Feature increases beam visibility		*	*	
 Variable Speed Rotation for maximum visibility in any light condition		*	*	
 Anti-Drift System to signal operator when unit is moved out of position	*	*	*	*
 CW and CCW Head Positioning for fast easy alignment in vert./horiz. jobs		*	*	
 Battery Level Indicators (color LEDs) so you don't run out of power at the wrong time	*	*	*	*



Durable Handle

Designed for Ruggedness and Easy Handling. Dual 5/8" X 11 Tripod Threads for Horizontal and Vertical (models 3150, 3150G, and 3175) Mounting

Model 3150 Packages

48-3150	AutoLaser 3150 Includes: 4 "D" cell batteries, remote control, and carrying case
48-3150I	AutoLaser 3150 Interior Package Includes: 4 "D" cell batteries, remote control, two (2) magnetic targets, laser glasses, wall/ceiling mount, carrying case
48-3150-1	AutoLaser 3150 Interior-Exterior Package Includes: Same as 48-3150I, plus LD18N detector
48-3150-2	AutoLaser 3150 Complete Package Includes: Same as 48-3150-1, plus aluminum tripod and 8-ft aluminum leveling rod

Model 3110GR Packages

48-3110GR	AutoLaser 3110GR Includes: 4 "D" cell batteries, LD-18N detector, carrying case
48-3110GR-2	AutoLaser 3110GR Complete Package Includes: 4 "D" cell batteries, LD-18N detector, aluminum tripod, 8-ft alum. leveling rod, carrying case
48-3110GR-3	AutoLaser 3110GR Complete Tri-case Package Includes: 4 "D" cell batteries, LD-18N detector, aluminum tripod, 8-ft alum. leveling rod, tri-case

AutoLaser® 3110GR Single-Slope Horizontal Rotary Laser

Battery Level LED Indicator Lights so you don't run out of power at the wrong time

3-in-1 TriCase

Designed to transport instrument with tripod, rod, and accessories.

Available separately
Cat# 57-TRCS-RL



AutoLaser® Electronic Self-Leveling Rotary Lasers

AutoLaser® 3150G Horizontal/Vertical Visible Green Split-Beam Rotary Laser

Designed for ruggedness and easy one-touch operation. The 3150G has all the same features as the 3150 with the extra feature of a **GREEN** split-beam for maximum indoor visibility.



Specifications

Model	3150G
Ideal Application	
Interior	*
Outdoor Jobsite	*
Beam Type	532nm
Range	Up to 660-ft (200m) Diameter with Detector
Leveling Type	Electronic Self-Leveling, $\pm 5^\circ$
Horizontal Leveling	Yes
Vertical Leveling	Yes
Accuracy	1/8-in
@ 100-ft (30m)	(3.2mm)
Rotation Speed	Variable
RPM	0,150, 300, 600
Visible Split-Beam	Yes
Power	12 $\pm$ Hours Use with Fully Charged Ni-MH Battery Pack

Model 3150G Packages

- 48-3150GI AutoLaser® 3150G Interior Package Includes:** Remote control, 2 magnetic targets, laser glasses, wall ceiling/vertical mount, Ni-Mh battery pack and charger, case
- 48-3150G-2 AutoLaser® 3150G Interior/Exterior Package Includes:** Detector with 660-ft range, remote control, 2 magnetic targets, laser glasses, wall ceiling/vertical mount, Ni-Mh battery pack and charger, carrying case

LD-18NG Electronic Green Laser Detector



- 47-5420NG Electronic Laser Detector Includes:** LD-18NG Laser Detector, 9v battery and heavy-duty rod bracket

Green Beam

Nobody Helps You Build Better...since 1895

BUILD IT RIGHT THE FIRST TIME... AND EVERY TIME.



The Right Tool Makes
All The Difference.

Green Beam



David White

Helping America Build...since 1895

1.800.435.1859

www.davidwhite.com



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ML-450N

Split-Beam Horizontal/Vertical Manual-Leveling Rotary Laser

Features

ML-450



One Person, one button operation

*



Variable Speed 360° Rotation for maximum visibility in any light condition

*



Spot Mode for 90° point to point

*



Short and Long Sweep Mode creates laser "chalkline"

*



Low Battery Indicator so you don't run out of power at the wrong time

*



Split-Beam Rotary Head ... built-in tripod with 5/8-11 mount for vertical laydown applications

*

One Person, One Button Operation

One button leveling, plumbing, and alignment. Two speed rotation (150-600 RPM) plus spot mode, short and long sweep modes, and LED low battery indication. Protected level vials prevent damage and shield vials from the sun to prevent misreads.



Built-in trivet with 5/8-11 thread for mounting on tripod in both horizontal and vertical position.



Vertical jobs are made easy... project laser beam on floor.

Specifications

Model **ML-450N**

Ideal Application

Interior *

Outdoor Jobsite *

Beam Type 635nm

Range Up to 200-ft (61m) interior range with grid target
Up to 800-ft (243m) diameter with detector

Rotation Speed Variable
RPM 150, 600, and Spot mode

Visible Split-Beam Yes

Leveling Type Manual, Two (2) screw
Horizontal Vial 5 min.
Vertical Vial 10 min.

Accuracy 1/4-in
@ 100-ft (30m) (6.0mm)

Power Four (4) "C" cell Alkaline batteries continues 60± hours continuous use

Model ML-450N Packages

47-4720NT AutoLaser® ML-450N Target Package Includes:
Four (4) 'C' cell batteries, magnetic target, carrying case

47-4720NI AutoLaser® ML-450N Interior Package Includes:
Four (4) 'C' cell batteries, remote control, laser glasses, magnetic target, ceiling mount, carrying case

47-4720N AutoLaser® ML-450N Complete Package Includes: Four (4) 'C' cell batteries, LD-12N laser detector, remote control, laser glasses, magnetic target, ceiling mount, aluminum tripod, 8-ft aluminum leveling rod, carrying case

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Accessories, Rotary Laser



Mount-Tripod Vertical & Wall/Ceiling Mount

Aids in the installation of drop ceilings, remodeling, and more! With a 5/8" x 11 female thread for mounting the level onto a tripod in order to project a vertical plumb line, inch/cm graduations, and durable construction.

57-VMOUNT

Aluminum Contractors' Tripod

With the right price and at a great value, this tripod is stronger and more rigid than comparable tripods.

60-9450N Flat Head with 5/8-11 Thread Stud 63" (160cm) open, 38" (97cm) closed



Aluminum Leveling Rod

A heavy-duty aluminum extrusion is precisely machined to fabricate these top of the line grade rods. All rods are impregnated with non-eraseable black graduations with foot markings and instant reading numbers in bright red.

06-808C	8-ft, 3-section. ft/8ths
06-816C	16-ft, 5-section. ft/8ths



Ceiling Mount

Perfect for the installation of drop ceilings. Features 5/8" x 11 mounting stud and heavy duty aluminum construction.

57-WIZMOUNT

Magnetic Laser Target

Features a magnetic base for attachment to metal studs or drop ceiling t-bars, with inch/cm graduations. Available in Red or Blue.

57-TARGET



Laser Glasses

Improves visibility of laser beams under bright conditions or over distances. One size fits all. Available in Red or Green.

57-GLASSES

CST/berger offers more Tripods and Leveling Rods to choose.

Electronic Rotary Laser Detectors



The LD-18N is Equipped with Dual-Sided LCD Display.
(Back View)

LD-18N Electronic Laser Detector with Heavy-Duty Rod Clamp

Locate your laser beam in bright light or over long distances. These laser detectors can be used with any rotating visible or invisible laser on the market. Rugged cases are gasket sealed for waterproof protection (IPX-4). One 9-Volt battery provides up to three months of normal use. One Year Warranty.



The LD-18N features seven channels of information indicating the position of the detector in the plane of laser light.

47-5420N Electronic Laser Detector Includes:
LD-12N Laser Detector, 9v battery and rod bracket

LD-12N Electronic Laser Detector with Rod Clamp

Features:

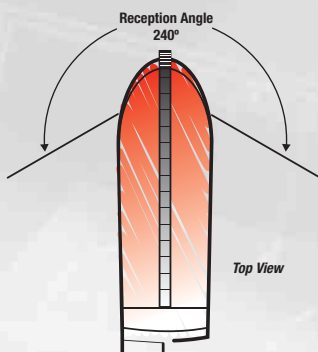
- Large front and back LCD display
- Wide and narrow accuracy settings
- 120° acceptance angle
- Audio ON/OFF
- Automatic shutoff
- Low battery indicator
- One year warranty

47-5404N Electronic Laser Detector Includes:
LD-12N Laser Detector, 9v battery and rod bracket

Electronic Rotary Laser Receiver

LD-50N Machine Control Laser Receiver

A laser receiver with the versatility and durability needed for the construction site. The LD-500 Laser Receiver is both a machine-mounted and survey rod receiver. Designed for all rotating lasers and can be held by hand, rod-mounted, or magnetically mounted to equipment.



Ideal for:

- Dozers
- Skid steer loaders
- Backhoes
- Excavators
- Rod mounted readings

Applications:

- General construction
- Job site grading
- Trenching
- Sloping floors
- Any rotary laser application



Features:

- 5" laser capture height
- 240° angular reception for maximum laser visibility
- Easy-to-see bright green on-grade LED
- Out-of-level warning
- LCD display and adjustable volume control for rod use
- Heavy-duty rod clamp
- Rugged Lexan™ plexiglass housing for the harshest environments
- Secure magnetic mounting to heavy equipment
- Strobe light rejection
- Three accuracy settings

48-LD50N

LD-50N Laser Receiver

Includes: Heavy Duty Rod Bracket, Secure Lock & Pin

57-RB500

Clamp-Rod, Heavy Duty for LD50N



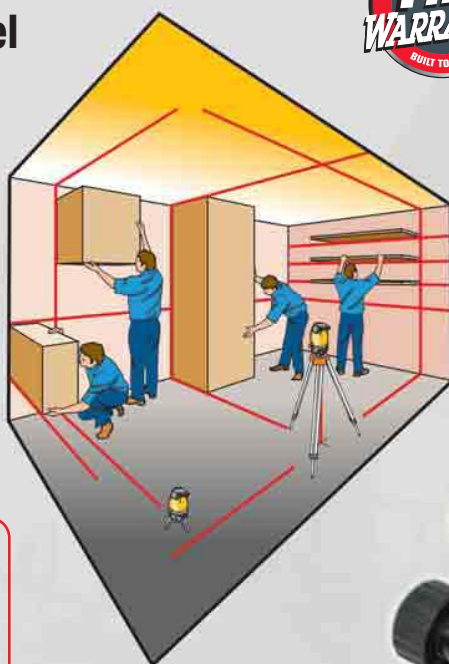
Matrix54

Multi-Laser Cross Level with Plumb



Automatic Self-Leveling

Quickly Level, Plumb and Align: Doors and Frames, Cabinets and Shelving, Drop Ceilings, Wainscoting and Paneling, Wall Hangings, Pipe and Conduit, Floor and Wall Tiles, Installing Closets, Interior Decoration, Finish Carpentry, Masonry Work, Wall Fixtures, Wall Studs, Partitions and More



Specifications

Model **MATRIX54**

Ideal Application

Interior and Outdoor Jobsite

Beam Type:

5 x 635nm diode
1 x 650nm diode

Accuracy:

$\pm 1/8$ -in @ 32-ft (± 3.2 mm @ 10m)

Operating Range:

Up to 75-ft (22m)
dependent on
illumination of area

Fan Angle:

120°

Features:

- Compensator Locking Mechanism
- Graduated Circle with Fine Adjustment
- Out-of-Level Sensor

Line Length:

60-ft @ 30-ft (18m @ 9m)

Self-Leveling Range:

$\pm 3.5^\circ$

Self-Leveling Speed:

A3 seconds

Compensator Type:

Gimbel (Ball bearing hung,
magnetically dampened)

Power:

Three Ni-MH Rechargeable batteries with charger

Warranty:

1 Year

- 4 Laser-cross at 90° to each other
- Laser-cross to the ceiling
- Plumb down beam to the floor
- Select 4 visible laser lines individually
- Solid magnetic dampening
- Adjustable 360° circle reading
- Tangent screw-for fine tune adjustment
- Compensator-lock for transport
- Visible alarm when out of level
- Use with floor trivet, removable, also mount to 5/8-11 thread



Down Plumb
Laser Reference

2X Brighter Beam
Higher Precision



Model MATRIX 54 Packages

48-MATRIX54 Matrix54 Multi-Laser Cross Level
Includes: plumb trivet, laser glasses, magnetic target, Ni-MH rechargeable batteries with charger, carrying case

48-MATRIX54E Matrix54 Multi-Laser Cross Level
Includes: detector, plumb trivet, laser glasses, magnetic target, Ni-MH rechargeable batteries with charger, carrying case

Line Laser Accessories



LLD-2 Laser Line Detector

For use with Outdoor "Pulsing" Line Lasers.

Features:

- Large front and back LCD display
- Audio ON/OFF
- Automatic Shutoff
- Low battery indicato
- One year warranty

48-LLD2 Laser Line Detector Includes:
9v battery and rod bracket

LP12-UM Hi-End Laser Pole Platform System

Level and align from the floor to the ceiling, the LP12-UM provide quick and easy set-up for almost any laser instrument. 12-ft, 3-Section Laser Pole with Heavy Duty Platform— pole mount mechanism and magnetic mount. Padded floor and spring-loaded ceiling bumper ends protect surfaces from marring and scratching. The quick clamping platform adjusts quickly and includes a 5/8-11 and 1/4-20 mounting stud.

58-LP12-UM LaserPole with Universal Mount Platform Includes: 12-ft 3-Section LaserPole, Platform, Pole Clamp, Magnetic Mount, Carrying Case

Fine Horizontal
Adjustment Screw

5/8-11 and 1/4-20
thread fastener

Spring-Loaded with
3-Section Twist Locks
for Quick Set-up

Track Mounting
Screws

Pole Mounting
Mechanism with
Quick Release Button

360° Rotating Platform
with Adjustment Screw

Mark2^{XL}

4X Brighter Beam
Higher Precision

Mark2XL Interior-Exterior Rugged Laser Cross Level

The Mark2XL is the ideal laser line layout tool for both interior and exterior applications. Easy-to-use single button operation features horizontal (level) and vertical (plumb) for both interior and exterior jobs, as well as laser cross and manual mode for interior applications. Outdoor range is over 100-ft when used with detector.

Specifications

Model **M2XL**

Ideal Application

Interior and Outdoor Jobsite

Beam Type:

Dual 635nm "high powered" diode

Accuracy:

±3/32-in @ 30-ft (±2.5mm @ 9m)

Operating Range:

Up to 100-ft (30m) dependent on illumination of area

Fan Angle:

120°

Features:

- "Manual Mode Feature" allows tilting for extreme angles
- Out-of-Level Sensor

Line Length:

60-ft @ 30-ft (18m @ 9m)

Self-Leveling Range:

±4°

Self-Leveling Speed:

A 3 seconds

Compensator Type:

Gimbel (Ball bearing hung, magnetically dampened)

Power:

Three AA batteries 1.5V

Warranty:

1 Year



Interior-Exterior

Ideal for: decks and patios, outdoor leveling, cabinets and shelving, drop ceilings, wainscoting and paneling, remodeling projects, wall hangings: machinery, pipe and conduit, floor and wall tiles, interior decoration.



Model Mark2XL Packages

48-M2XLE

Mark2XL Mini Laser

Cross Level Includes: Mini laser tripod, hard shell carrying case

48-M2XLE-1

Mark2XL Mini Laser

Cross Level Includes: Laser line detector with clamp, mini laser tripod-magnetic with strap, hard shell carrying case



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Specifications

Model **M2LC**

Ideal Application

Interior Jobs

Beam Type:

Dual 635-660nm diode

Accuracy:

±1/4-in @ 30-ft (±6mm @ 9m)

Operating Range:

Up to 32-ft (10m)
dependent on
illumination of area

Fan Angle:

120°

Features:

- "Manual Mode Feature" allows tilting for extreme angles
- Out-of-Level Sensor

Line Length:

60-ft @ 30-ft (18m @ 9m)

Self-Leveling Range:

±4°

Self-Leveling Speed: A

3 seconds

Compensator Type:

Gimbel (Ball bearing hung,
magnetically
dampened)

Power:

Three AA batteries 1,5V

Warranty:

1 Year



Mark2LC Interior Laser Cross Level

Level and plumb from floor to ceiling with instant, accurate reference "chalklines".

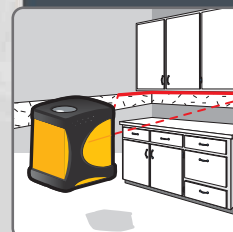
- Single button, four function: horizontal line, vertical line, laser cross, manual tilt laser mode
- Easy access battery component.
- Ideal for indoor applications.

Model Mark2LC Packages

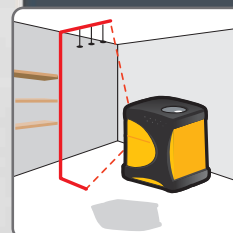
48-M2LC

Mark2LC Mini Laser Cross Level

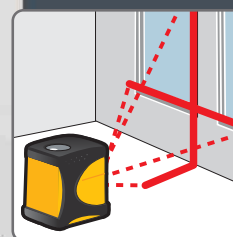
Includes: 3 'AA' cell alkaline batteries,
Soft carrying case



Level



Align / Plumb



Square

2X Brighter Beam



Ideal for: cabinets and shelving, drop ceilings, wainscoting and paneling, remodeling projects, wall hangings: machinery, pipe and conduit, floor and wall tiles, interior decoration.





Transfer Point from floor to ceiling with accuracy you can count on.



Level up— settles fast with self-leveling up to 4%.



Mark4^{PB}



Mark4PB 4-Beam Laser

Up plumb, down plumb, level and square beams. One push of a button and instantly transfer a point from floor to ceiling, plus a 90° horizontally level reference points.

Features:

- Single Button Operation
- Magnetically attach to metal surfaces
- Highly focused self-leveling laser beams provide accuracy of 1/8-in. at 50-ft.
- Flashing “out-of-level” sensor eliminates rechecks and costly errors
- Tough on the jobsite. Resists water, dirt and dust (IP54)
- Gravity design pendulum self-levels instantly with unique magnetic dampening system

Specifications

Model	M4PB
Beam Type:	
Laser Dot:	Four 650 nm laser diodes 2.5 mw maximum (Class 3R)
Operating Range:	
100 feet (30m) interior visible range (Dependent on ambient light)	
Indicating Features:	
Low Power:	Laser blinks 4 times every eight seconds
Out of Level:	Laser blinks rapidly
Accuracy:	
± 1/8" @ 50 feet (± 3mm @ 15M)	
Battery life:	
±15 hours intermittent use 3 “AA” Cell Alkaline batteries	
Weight:	
Laser:	1 lb. 3.2 oz. (545g)
Mount:	7.1 oz. (202g)
Warranty:	
1 Year	

What Can You Do with the Mark4 Laser?

Plumbers— When installing pipe between floors, use for transferring a point from floor to ceiling to ensure holes are drilled in alignment

Electricians— Ensure that conduit is installed in alignment; align ceiling light fixtures with points on the floor.

Builders/Remodelers— Plumb, align and square wall studs, frames, columns, posts, deck footings; square foundations, transfer reference points between floor and ceiling for sprinkler systems, HVAC systems, skylights, recessed lighting; masonry work

Finish Carpenters— Transfer floor patterns to ceiling for decorative work; level cabinets, shelving and counter tops, align trim work

Plus many more uses...

48-M4PB

Mark4PB Self-Leveling Laser Includes: Target, Universal Mount, Carrying case

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Mark4PL

4-Beam Laser with Horizontal "Chalkline"

The "must have" productivity and accuracy enhancing, leveling and alignment tool. The Mark4PL offers 5 independent self-leveled 650nm highly focused laser beams, providing accuracy of 1/4-inch at 100 feet.

Features:

- 5 independent powerful 650nm diodes (Class 2M)
- ON/OFF switch that locks the lasers in place when not in use to protect the compensator during transport
- Lasers automatically shut-off after 20 minutes to conserve battery life
- Beams blink when the M4PL is beyond its leveling capability or if the batteries are low
- Quick release universal mount expands the mounting possibilities: mount on a 5/8-in x 11 surveyor's tripod or 1/4-in x 20 camera tripod, magnetically mount to a vertical metal surface, or strap mount to a horizontal or vertical surface

Specifications

Model	M4PL
Beam Type:	
Laser Dot:	Four 650 nm laser diodes 2.5 mw maximum (Class 3R)
Chalkline:	635 to 650nm (Class 2M)
Operating Range:	
	100 feet (30M) interior visible range
Chalkline:	30 feet (9m) (Dependent on ambient light)
Indicating Features:	
Low Power:	Laser blinks 4 times every eight seconds
Out of Level:	Laser blinks rapidly
Accuracy:	
	± 1/4" @ 100 feet (± 6mm @ 30M)
Line Accuracy:	
	± 3/32" @ 10 feet (end to end) (± 2mm @ 3M)
Battery life:	
	±15 hours intermittent use 3 "AA" Cell Alkaline batteries
Weight:	
Laser:	1 lb. 3.2 oz. (545g)
Mount:	7.1 oz. (202g)
Warranty:	
	1 Year



Mark4^{PL}

Plumb, level, and square instantly.

ON/OFF switch locks the lasers in place when not in use. The unique self-leveling and dampening system is the quickest to settle the beam, reducing set up time.

Flashing "out-of-level" sensor eliminates rechecks and costly mistakes.



48-M4PL

Mark4PL Four Beam Laser Includes:
Magnetic Multi-Mount, Strap, Plumbet Trivet, Target, Carrying Case



L6-20N & LT6-900N

22X Meridian Level & Transit-Level with Horizontal Circle



Modestly priced and easy to use, these instruments are designed for light construction work.



- **Versatile**— Ideal for leveling foundations, driveways, patios, floors, sills, for grading streets, curbs, ditches, for aligning fences; or any other light construction job.
- **Horizontal Circle**— Graduated to single degrees and reads by vernier direct to 1/4 degree (15 minutes).
- **Vertical Arc**— Read to degrees (0-45°). (LT6-900N ONLY)
- **Horizontal Lock and Tangent Screw**— Provides precise movement control.
- **Built-in Sunshade**— For clearer sightings.
- **Leveling Vial**— Top mounted for effortless viewing.
- **Large Leveling Screws**— Easy to turn, even with gloved hands.



44-8824-1 shown with aluminum tripod and 8-ft aluminum telescoping leveling rod

Specifications

Telescope: L620N-, LT6-900N

Power:	22X
Length:	10.5" (266mm)
Minimum Focus:	4' (1.2M)
Aperture:	0.75" (19mm)
Field of View:	2' @ 100' (.6M @ 30M)
# of Lenses:	6

Range:

Up to 200 feet (61m)

Accuracy:

Within 1/4" @ 75 feet (6mm @ 23M)

Horizontal Circle:

Diameter:	3 5/8" (92mm)
Graduations:	Each 1°
Numbers:	Each 10°, 0-90-0°
Vernier:	Double direct to 15min.

Center:

Planar bearing

Level Vials— LT6-900N Only:

10 min. per 2mm

Level and Transit-Level Includes: protective carrying case, plumb bob, adjusting tools

Cat Number	Description
44-8834	LT6-900N Meridian Transit-Level
44-8824	L6-20N Meridian Level

Level and Transit-Level Kits Include: protective carrying case, plumb bob, rain/dust shade, adjusting tools, aluminum tripod, 8-ft aluminum leveling rod

Cat Number	Description
44-8834-1	LT6-900N Meridian Transit-Level Kit
44-8824-1	L6-20N Meridian Level Kit

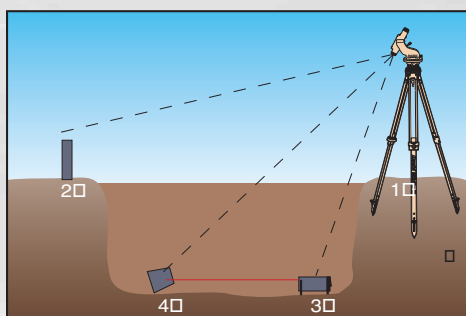
Specifications

Telescope:	LT8-
Power:	26X
Length: 6.1"	8.5" (216mm)
Min. Focus:	6' (1.8m)
Aperture:	1.257" (32mm)
Field of View:	1'9" @ 100' (.5M @ 30M)
Number of Lenses:	8
Stadia:	1:100
Rotation:	360°
Range:	
Up to 400 feet (125m)	
Accuracy:	
Within 3/16" @150 feet (5mm @ 50m)	
Horizontal Circle:	
Diameter:	4 5/8" (117mm)
Graduations:	Each 1°
Numbers:	Each 10°, 0-90-0°
Vernier:	Double direct to 5 min.
Center:	
Wide-stance ball bearing	
Telescope Vials:	
120 sec. per 2mm	
Plate Vial:	
360 sec. per 2.5mm	

LT8-300LTU Line Transfer Unit

The LT8-300LTU with 360° telescope rotation allows you to see directly below the instrument for pipe laying applications.

- **Versatile**— Can be used with pipe aligning lasers or as a level-transit.
- **Powerful 26X Optics**— Greater range than competitors' models.
- **Circle Lock**— Assures accuracy by preventing the horizontal circle from being moved accidentally.
- **Glass Reticle**— With stadia lines for measuring distance. Stadia ratio 1:100.
- **Plate Vial**— For rough leveling and general plummeling requirements.



1. Set up the LT8-300LTU over your pipe laser.
2. Sight on the far point and lock the horizontal screw.
3. Transit over the pipe laser and align the front and back of the pipe laser with the cross hair in the line transfer unit.
4. Transit out to point in ditch. Adjust laser beam left or right to center it in the crosshairs.

44-8877

LT8-300LTU Line Transfer Unit

Includes: Carrying case, adapter to allow use with the 5/8X11 tripod, rain hood, objective lens cap



DWT10

Electronic Digital Transit-Theodolite

Simple, Push Button Functions gives the user precise LCD digital readouts

Features:

- 5 second vertical and horizontal angular readout
- Dual LCD display
- Vertical angle measuring; provides three different options plus percentage of grade
- Optical plummet
- Zero resetting
- Built in battery pack can be attached and detached by a single action
- Vertical and horizontal readings shown on one big screen
- Water-resistant, sealed construction
- Custom hard-shell case with fitted foam interior

Improved.

- **5 second angular readout**
- **Vertical Tilt Sensor...** monitors the tilt angle in x-axis.



- Display Screen and Telescope Crosshair Illuminated for low light conditions
- Vertical Angles in degrees and percentage of grade
- Zero Resetting, clockwise or counterclockwise angle reading

Specifications

Telescope:	DWT10
Length:	6.1" (155mm)
Min. Focus:	53" (1.3m)
Aperture:	1.77" (45mm)
Field of View:	1° 30'
Magnification:	30X
Image:	Erect
Stadia Ratio:	100 to 1
Stadia Constant:	0

Electric Angle Measurement:

Method:	Incremental
Min. Reading:	5" (3 mog)
Accuracy:	5"
Diameter of Circle:	3.22" (82mm)

Illumination: Display and Reticle

Optical Plummet:

Magnification:	3X
Field of View:	5°
Focusing Range:	20" to infinity (0.5m to infinity)

Level Vial Sensitivity:

Plate Vial:	30" per 2mm
Circular Vial:	8' per 2mm

Display Operating Range:

Operating Voltage:	4-6 VDC
Battery:	(4) AA Batteries
Operating Time:	15 hrs continuous use @ 68°F (20°C) (Alkaline Batteries)
Operating Temperatures:	-4° to +122°F (-20° to +50°C)



46-8890

DWT-10 Digital Theodolite

Includes: Carrying case, batteries, sun shade, tool kit, rain cover, drying cloth, and plumb bob

Nobody Helps You Build Better...since 1895

LT8-300 & LT8-300P

Universal Level-Transit

Ruggedness and dependability make these five minute instruments these first choice for practically every horizontal and vertical sighting application in construction.



Specifications

Telescope: LT8-300, LT8-300P

Power: 26X

Length: 8.5" (216mm)

Min. Focus: 6' (1.8M)

Aperture: 1.257" (32mm)

Field of View: 1' 9" @ 100'
(.5m@30m)

of Lenses: 8

Stadia: 1:100

Range:

Up to 400 feet (122m)

Accuracy:

Up to 3/16" @ 150 feet (5mm @ 46M)

Optical Plummet (LT8-300P Only):

Magnification: 1.5X

Fixed Focus: From 4'-7'

Reticle: Cross lines, wire type,
adjustable focus

Field of View: 3.5" @ 5 feet

Center Stud: 1-5/8" shift
adjustment for easy
setup of optical
plummet.

Horizontal Circle:

Leveling Screws: 3

Tangent Screw: Infinite

Circular Vial

Sensitivity: 8 min./2mm

Vertical Arc:

Graduations: Each 1°

Numbers: Each 10°, 45-0-45°

Vernier: Double direct to
5min.

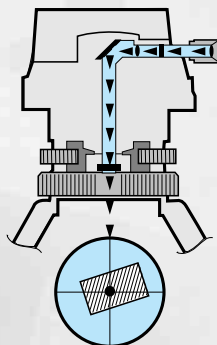
Center:

Wide-stance ball bearings

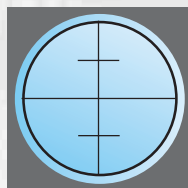
Level Vial:

110-120 sec. per 2mm

- Solid Three-Piece Standard- Engineered to protect against dirt, damage and costly repairs.
- Wide-Stance Ball Bearing Center- Assures smooth movement and superior alignment control.
- Top-Mounted Vial- Out in the open and easy to see.
- Focus Knob- Easy to reach, no matter what angle you're shooting.



The LT8-300P has all the features of the LT8-300 plus an optical plummet. The level-transit is optically lined up over a reference point by looking through an eyepiece and aligning the crosshairs over the point. The optical plummet assures you of precise positioning every time!



Glass reticle on LT8-300 & LT8-300P has stadia lines for measuring distance. Stadia ratio 1:100



Model LT8-300(P) Packages

46-8870

LT8-300 Universal Level-Transit Includes: Plumb bob, rain hood, objective lens cap, carrying case

46-8871

LT8-300P Level-Transit with Optical Plummet Includes: Plumb bob, rain hood, objective lens cap, carrying case

A circle lock on the LT8-300 and LT8-300P (shown on back) assures accuracy by preventing the horizontal circle from being moved accidentally.



Automatic Levels

Make every leveling job faster and easier with David White-designed automatic levels.



- Lock-Out Device- Protects compensator during transport and handling.
- Larger Aperture- Allows more light for a sharper image.
- Wire-Hung Magnetically Damped Compensator- Holds the level line of sight within ± 15 arc minutes of level.
- Superior Design- Sighting scope and bubble vial are built into the housing for greater durability.
- Soft Control Knobs- Easier to grip.
- Horizontal Circle- Easy-to-read white on black graduations.
- Larger Base Plate- Provides greater stability.
- Infinite Tangent Screw- Added convenience.

Specifications

Telescope:	AL8-
Length:	8.5" (218mm)
Minimum Focus:	3.3' (1M)
Aperture:	1.4" (36mm)
Field of View:	1° 30 min.
Reticle:	Glass with stadia, 1:100
Eyepiece:	Focusing
Resolution:	4.4 seconds
Image:	Erect

Horizontal Circle:	
Diameter:	4.3" (108mm)
Graduations:	Each 1°
Numbers:	Each 10°, 0-360°

Compensator:	
Compensating Range:	± 15 arc min.
Suspension:	Wire-hung
Type of Damping:	Magnetic

Leveling Base:	
Leveling Screws:	3
Tangent Screw:	Infinite
Circular Vial Sensitivity:	8 min./2mm



Sighting scope and bubble vial into the housing for greater durability.

Automatic Levels Include: protective carrying case, plumb bob, rain/dust shade, adjusting tools

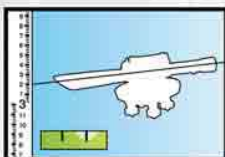
Cat Number	Description
45-8922	AL8-22 Automatic Level
45-8926	AL8-26 Automatic Level
45-8928	AL8-28 Automatic Level
45-8932	AL8-32 Automatic Level

AutoLevel Level Kits Include: protective carrying case, plumb bob, rain/dust shade, adjusting tools, aluminum tripod, 8-ft aluminum leveling rod

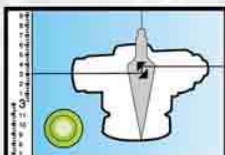
Cat Number	Description
45-8922-1	AL8-22 Auto-Level Kit
45-8922-1	AL8-22 Auto-Level Kit
45-8926-1	AL8-26 Auto-Level Kit
45-8928-1	AL8-28 Auto-Level Kit
45-8932-1	AL8-32 Auto-Level Kit



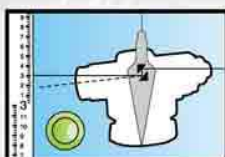
Conventional instrument correctly leveled. Rod reading is 3'-3".



Conventional instrument slightly out of level. Vial bubble is off center and incorrect reading is 3'-2".



Automatic instrument correctly leveled. Rod reading is 3'-3".



Automatic instrument slightly out of level. Circular bubble is off center, but the compensator corrects for the variation from level and maintains a correct rod reading of 3'-3".

Model	Package	Power	Range (up to...)	Accuracy
AL8-22	ALP8-22	22X	200 Feet (60M)	1/16" @100' (1.6mm @30M)
AL8-26	ALP8-26	26X	300 Feet (90M)	1/16" @ 200' (1.6mm @ 60M)
AL8-28	ALP8-28	28X	300 Feet (90M)	1/16" @ 250' (1.6mm @ 75M)
AL8-32	ALP8-32	32X	350 Feet (110M)	1/16" @250' (1.6mm @ 75M)

TLM200

Tru Laser Measurer

"Tru" laser measuring for the Professional— When it has to be accurate. Just point the laser, press the button, and measure

Ideal for:

Appraisers, Carpenters, Plumbers, Technicians, Floor and Tile Layers, and Painters.

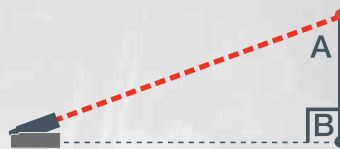
Features:

- Large clear LCD graphical display
- $\pm 1/8$ -in. @ 100-ft. accuracy
- Tracking function to measure minimum and maximum distance as well as to determine spacing
- Simple pythagoras
- Area and volume measurement
- Impact resistant housing
- True laser light for the MOST ACCURATE measuring
- One year warranty

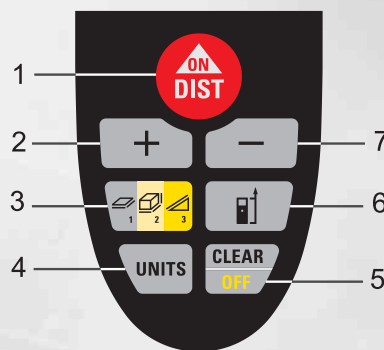
Specifications

Model	TLM200
Beam Type:	635nm (Class 2M)
Operating Range:	1' to 100 feet (0.3m to 30m) (Dependent on ambient light)
Indicating Features:	Low Power: Laser blinks 4 times every eight seconds Out of Level: Laser blinks rapidly
Accuracy:	$\pm 1/8"$ @ 100 feet (± 3 mm @ 30M)
Power:	2 "AAA" Cell Alkaline batteries
Warranty:	1 Year

48-TLM200 True Laser Measurer— Professional
Includes: Carrying case, 2 AAA batteries, instruction card



Simple pythagoras measurement calculation



Keypad with simple interface.

1. ON / Measuring
2. Plus (Add)
3. Area/Volume/Indirect Measurement Pythagoras
4. Units of Measure
5. Clear / OFF
6. Measurement Reference
7. Minus (Subtract)



Measure heights. Press a button and the ceiling height is measured in seconds, effortlessly.

David White

David White®

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