

# Kuker-Ranken

A TRADITION IN PRECISION



when it has to be right **Leica**  
Geosystems

## THE LEICA TS20 WITH AI TECHNOLOGY

# BE READY

**Be ready for surveying excellence with the total station defining the standard for productivity and the future of robotic.**

The Leica TS20 delivers unmatched efficiency with advanced AI-powered target recognition, ensuring fast, precise measurements on every job site.







## Precision Redefined: The Leica TS20 and the Experts Behind It

The first light of day cuts across a quiet jobsite in the Pacific Northwest. Amid the hum of distant machinery, a flash of Leica red catches the morning sun. Standing tall and steady, the **Leica TS20 Robotic Total Station** comes to life — its sleek frame rotating effortlessly as it locks onto a prism hundreds of feet away. For **Rob Mitchell of Kuker-Ranken**, this moment never gets old. After decades in the field, he's witnessed the evolution of surveying technology firsthand.

"The TS20 isn't just faster — it's smarter," says Rob, watching the instrument's motor glide into position. "It's built for real-world conditions, and it understands what surveyors need before they even ask for it."

# LEICA TS20 / BE READY



## Built for Everyday Excellence

The **Leica TS20** is more than a robotic total station; it's a productivity powerhouse engineered for every kind of job — from cadastral surveying to complex construction layouts. With **AI-powered automation**, **ultra-fast robotic tracking**, and **IP66-rated durability**, the TS20 delivers precise results in the harshest environments.

Its **touchscreen interface** and **Leica Captivate software** make complex workflows intuitive and accessible, while seamless cloud connectivity links the field to the office in real time. Whether capturing points, aligning control, or managing 3D data, the TS20 gives professionals the speed and confidence to work smarter, not harder.



## Even More Powerful with the Leica AP20

Pair the TS20 with the **Leica AP20 AutoPole**, and the workflow becomes virtually unstoppable.

The AP20's **Tilt Compensation**, **Pole Height Measurement**, and **Target ID** features eliminate the most common field challenges — no more manual height adjustments or lost targets.

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GEOSYSTEMS

## Where Experience Meets Innovation

Rob Mitchell has trained hundreds of surveyors, engineers, and construction professionals on Leica equipment. His field experience gives him a rare perspective — one that bridges the gap between innovation and application. When a new instrument like the TS20 arrives, Rob isn't just testing its specs; he's testing how it performs when deadlines are tight and conditions are unpredictable.

"Leica designs instruments that earn your trust," he says. "The TS20 gives you accuracy, speed, and durability that you can rely on every single day. It's an extension of your workflow — not a distraction from it."



## The Future of Surveying Starts Here

As the day's work continues, the TS20 moves from point to point with unshakable precision, seamlessly collecting data and transmitting it to the office before lunch. The result is a faster, more connected workflow — one that gives surveyors the freedom to focus on what really matters: results.

With experts like Rob Mitchell leading the way, surveyors across the region are stepping confidently into the next era of measurement. Because when knowledge meets the power of Leica engineering, the outcome is simple: **unmatched precision, every time.**

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# Lasers - Professional Grade Lasers



## Leica Rugby Lasers CLAx / CLH Series

**Rugby CLH** - Use it as a simple to operate, one-button horizontal laser for concrete and formwork leveling, height checking and transferring, and land levelling application. Upgradeable to manual slope or semi-auto grade functionality.

**Rugby CLAx** - The Leica CLAx series of professional dual grade lasers blend high performance, flexible operation, and a robust design to increase productivity on the construction site. Offering manual and digital dual grade options, slopes ranging from 8 to 15%.



We Offer  
Rentals!  
Try before you buy!



Leica CLH Lasers



Leica CLAx Lasers



Leica Rugby Smart  
Adapter



Leica CLC+ Combo

### Leica CLH Lasers - Horizontal (All include Battery, Charger & Carry Case)

|         |                   |                                 |
|---------|-------------------|---------------------------------|
| 6012274 | Rugby CLH Basic*  | Horizontal                      |
| 6012276 | Rugby CLH/CLX200* | Manual grade up to 8%           |
| 6012277 | Rugby CLH/CLX300* | Semi auto single grade up to 8% |
| 6012278 | Rugby CLH/CLX400* | Semi auto dual grade up to 8%   |

### Leica Rugby CLAx - Professional Dual Grade Lasers

|         |                |                                                              |
|---------|----------------|--------------------------------------------------------------|
| 6018539 | Rugby CLAx 250 | High-accuracy dual slope up to 8%                            |
| 6018541 | Rugby CLAx 550 | Adaptable all-rounder 8% digital dual slope, self-levelling. |
| 6018543 | Rugby CLAx 700 | Fast, precise and flexible digital dual grades up to 15%     |

### Accessories & Upgrades

|        |                                                                 |
|--------|-----------------------------------------------------------------|
| 986299 | CLC Combo+ Receiver & Remote, Bracket and Charger               |
| 789922 | Rod Eye 120 Basic Receiver with Bracket                         |
| 789923 | Rod Eye 140 Classic Receiver with Bracket                       |
| 789924 | Rod Eye 160 Digital Receiver with Bracket                       |
| 835666 | Rod Eye Receiver Bracket                                        |
| 864849 | Li-Ion Battery Pack for Rugby CLH/CLX/CLC Lasers Only 12V/7.2Ah |
| 790417 | A100 Li-Ion Charger                                             |
| 864855 | Smart Adapter 90° for Vertical Operation and Wall Mounting      |
| 790434 | A240 Manual Slope Adapter                                       |

### Functionality Upgrades Sales Permanent

|         |                                                                                                |
|---------|------------------------------------------------------------------------------------------------|
| 6012288 | <b>CLH Upgrade:</b> CLX 200 Single, Single manual grade, 8%, no display                        |
| 6012289 | <b>CLH Upgrade:</b> CLX 300 Incl. CLX 200 plus Dial-in Single grade, Semi-auto to 8% w/display |
| 6012290 | <b>CLH Upgrade:</b> CLX 400 Incl. CLX 300 plus Dial-in Dual grade, Semi-auto to 8% w/display   |

### Rugby Laser Specs.

|                                               | CLH Series        | CLAx Series       |
|-----------------------------------------------|-------------------|-------------------|
| Warranty                                      | 5Y/2Y knockdown   | 5Y/2Y knockdown   |
| Grade Capability                              | 8%                | 15%               |
| Self levelling Range                          | ± 6°              | ± 6°              |
| Self levelling Accuracy                       | ± 1/16" at 100 ft | ± 1/16" at 100 ft |
| Operating Range w/Combo, RE140/160 (diameter) | 1476 ft           | 1476 ft           |
| Remote Range (diameter)                       | 1000 ft           | 1000 ft           |
| Battery Operating Time                        | 50 h              | 50 h              |
| Battery Charging                              | 5 h (full charge) | 5 h (full charge) |

# Lasers - Rotating



## Leica Construction Lasers - Rugby Rotating Lasers

Ask About  
Rentals!



Rugby 610 Laser



CLC Combo+



Battery Pack



Receiver Bracket

### Leica 600 Series Lasers - Self Leveling Horizontal and Vertical options

|                    |                                           |                                                                                                                                                           |
|--------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rugby 610 package  | Horizontal - One button, single axis      | *Packages include: rod-eye receiver, battery pack, charger (640 only), remote (640G only) free aluminum tripod. 3 Year warranty with online registration. |
| Rugby 620 package  | Horizontal with manual grade control      |                                                                                                                                                           |
| Rugby 640 package  | Horizontal & Vertical - <b>Red</b> Beam   |                                                                                                                                                           |
| Rugby 640G package | Horizontal & Vertical - <b>Green</b> Beam |                                                                                                                                                           |
| Rugby 680 package  | Semi-automatic, dual grade laser          |                                                                                                                                                           |

### Options & Accessories

|             |                  |                                                                        |
|-------------|------------------|------------------------------------------------------------------------|
| 789922      | Rod Eye 120      | Great receiver with bracket for all general construction.              |
| 844745      | Rod Eye 120G     | Designed to capture the green beam                                     |
| 789923      | Rod Eye 140      | Classic standard receiver with bracket & with arrow display            |
| 789924      | Rod Eye 160      | Great receiver with bracket and digital readout                        |
| 835666      | Receiver Bracket | Bracket for receivers 120,120G,140,160,180 & CLC                       |
| 790352      | RC400            | Remote Control, Multipurpose Remote Rugby 640/640G/840                 |
| 789933      | RC800            | Remote Control, Grade Laser Remote to 100M, Rugby 800 Series           |
| 790434      | A240             | Manual Slope Adapter                                                   |
| 732791      | Target           | Magnetic Red Ceiling Grid Target                                       |
| 849525      | A210G            | Green Ceiling Grid Target                                              |
| 790415      | A600             | Li-Ion Battery Pack (for Rugby 600 series)                             |
| 790416      | A800             | Li-Ion Battery Pack, 7.2Ah (for Rugby 800 series)                      |
| 790417      | A100             | Li-Ion Charger (for Rugby 600/800 series)                              |
| 790419      | A150             | Alkaline Pack (holder for rugby 600/800 series)                        |
| 5301-25-BLK |                  | Seco Aluminum Tripod with quick clamps, black hardware up to 64 inches |



| Rugby Laser Specs.                         | 610                                              | 620                                                  | 640                                                                 | 640G                                                                | 680                                                  |
|--------------------------------------------|--------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------|
| <b>Functionality</b>                       | Self-leveling horizontal, One button laser       | Self-leveling horizontal, & manual slope in one axis | Self-leveling horizontal, vertical, 90° & manual slope in dual axis | Self-leveling horizontal, vertical, 90° & manual slope in dual axis | Self-leveling horizontal, dial-in grade in dual axis |
| <b>Self levelling Range</b>                | ± 5°                                             |                                                      |                                                                     |                                                                     | ± 8° DG                                              |
| <b>Grade Range</b>                         | -                                                | -                                                    | -                                                                   | -                                                                   | ± 1/16" at 100 ft                                    |
| <b>Self levelling Accuracy</b>             | ± 3/32" at 100ft                                 | ± 3/32" at 100ft                                     | ± 3/32" at 100ft                                                    | ± 3/32" at 100ft                                                    | ± 1/16" at 100 ft                                    |
| <b>Scanning Modes</b>                      | -                                                | -                                                    | 10°, 45°, 90°                                                       | 10°, 45°, 90°                                                       | -                                                    |
| <b>Remote Range</b>                        |                                                  |                                                      |                                                                     |                                                                     |                                                      |
| RE120 / 120G                               | 2,600 ft                                         | 2,600 ft                                             | 1,650 ft                                                            | 1,300 ft                                                            | 2,950 ft                                             |
| RE140 / 160                                | 3,600 ft                                         | 3,600 ft                                             | 2,000 ft                                                            | -                                                                   | 3,600 ft                                             |
| <b>Battery life</b><br>(alkaline / li-ion) | 60 h / 40 h                                      |                                                      |                                                                     |                                                                     |                                                      |
| <b>Warranty</b>                            | Manufacturer's Warranty: No Cost period: 3 years |                                                      |                                                                     |                                                                     | 5 years no cost                                      |

# Lasers - Pipe Lasers & Accessories



## Leica Pipe Lasers - Piper 100 and 200 Series

**We Offer  
Rentals!  
Try before you buy!**



**Piper 100 Package**



**Piper 200 Green beam**

**Leica Piper 100 Pipe Laser Package** - The Leica Piper Series is designed to enhance productivity and precision for all your pipe alignment tasks. With a solid performance whether you're working over the top, in the manhole, or directly in the pipe, these tools ensure you can execute your work with confidence. The rugged aluminum housing protects the equipment from harsh job site conditions, making it reliable for various environments.

**Leica Piper 100 Package includes (748704)** - Piper 100, remote, target, holder, Li-ion battery. Charger, car adapter, 150 mm (6") feet, and carrying case.

### Leica Piper 200 Green Beam Series

The Piper Green Series enhances visibility with four times improved laser clarity, resulting in higher leveling accuracy. This allows you to work effectively at greater distances, even in bright conditions. Commonly used in water and sewage applications, the Green Series also enhances usability in these scenarios.

**Leica Piper 200 Package** - Great for second-day setups. The Alignmaster function seeks and finds the target. Includes same items as Piper 100 package.

748710 Piper 200 Package with Alignmaster

**Leica Piper Green Beam Pipe Lasers** - includes same items as Piper 100 package.

6016058 Leica Piper 100G/3R with 150mm ft, IR remote, target, charger and battery

6016958 Leica Piper 200G/3R with Alignmaster 150mm ft, IR remote, target, charger and battery

### Technical Data

### Piper 100 / 200

|                                |                                                              |
|--------------------------------|--------------------------------------------------------------|
| Laser Type                     | 635 nm (red), laser class 3R / 520nm (green), laser class 3R |
| Laser output                   | 4.75 mW maximum                                              |
| Working range / Grade range    | 200 m (650 ft) / -10% to +25%                                |
| Self-leveling range            | -15% to +30%                                                 |
| Line movement                  | 6 m at 30 m (20 ft at 100 ft)                                |
| Battery type*                  | Lithium-Ion, 7.4 V/3.8 Ah                                    |
| Operation/charge               | 40 h/4 h                                                     |
| Operating temperature range    | -20°C to +50°C (-4° to +122° F)                              |
| Dimensions (diameter x length) | 96 x 267 mm (3.8 in x 10.5 in)                               |
| Weight / Construction          | 2 kg (4.4 lbs) / Cast aluminum                               |
| Wireless remote                | Front, up to 150 m (500 ft) – Back, up to 10 m (35 ft)       |

### Leica Piper Accessories

|         |                                       |
|---------|---------------------------------------|
| 746157  | IR Remote Control                     |
| 1009891 | PT-100 Target Plate Red Assembly      |
| 746158  | Trivet Assembly with mounting bracket |
| 746159  | Mounting Bracket                      |
| 746161  | Foot 6" / 150mm (4 required)          |
| 746162  | Foot 8" / 200mm (4 required)          |
| 746163  | Foot 9" / 225mm (4 required)          |
| 746164  | Foot 10" / 250mm (4 required)         |
| 746165  | Foot 12" / 300mm (4 required)         |



**IR Remote**



**PT-100 Target Plate**



**Piper Feet**



**Trivet Assembly**





# Automatic Levels | ZipLevel



## Automatic Levels - Nitrogen filled, IP57 (submersible), 3 Year Warranty with registration.\*

The Leica NA700 levels defy the toughest of building site environments. Save time and money with no need for regular checks in the workshop or constant readjustment. When it comes to extreme robustness and optimum measuring accuracy, the Leica NA700 levels are hard to beat.

- when it has to be right **Leica**  
Geosystems

|  | NA720<br>(641982)   | NA724<br>(641983) | NA730 plus<br>(833190) | NA2<br>(352036) |
|-----------------------------------------------------------------------------------|---------------------|-------------------|------------------------|-----------------|
| Magnification                                                                     | 20X                 | 24X               | 30X                    | 32X             |
| Telescope                                                                         | Upright             |                   |                        | Erect Image     |
| Nitrogen filled                                                                   | Yes                 |                   |                        |                 |
| Lens diameter                                                                     | 30mm                | 36mm              | 40mm                   | 45mm            |
| Horizontal drive                                                                  | Both sides, endless |                   |                        |                 |
| Accuracy                                                                          | 2.5mm               | 2mm               | .7mm                   | .7mm            |
| IP rating                                                                         | IP57 (submersible)  |                   |                        | IP53            |



PROTECT is subject to the Leica Geosystems International Limited Warranty and the General Terms and Conditions for PROTECT, which you can find at: [www.leica-geosystems.com/protect](http://www.leica-geosystems.com/protect).

\*Available through free online registration within 8 weeks of purchase.

## Machine Receivers



The Leica MC200 Depthmaster is an ideal tool for any kind of height control for excavators. Simply turn the excavator dipper into an integrated measuring stick without having to leave the cabin. It is simple to set-up and can be used with any rotating laser. Mounts either to a standard excavator or backhoe - even levelling work can be done with the same sensor.

- Ultra-bright LED displays (front & back)
- 100 % waterproof
- Constant accuracy band control



The LMR 360 offers accurate grade information for all visual machine control applications. Large 360° detection window picks up any rotating laser, from any angle. Built-in vertical indicator monitors angle of the stick, signaling if it's plumb or under- or overextended. Vertical position ensures consistent and accurate grade readings, saving money by reducing over- or under-cutting.

- Accurate grade control
- Built-in vertical indicator
- Waterproof



## NEW! ZIPLEVEL PRO-2030 High Precision Altimeter



**Replaces Rotary Lasers as the  
World's Fastest,  
Easiest, most Powerful,  
Precise and Only  
Pressurized Bubble Free level.**

- High Precision Function
- Compact Design allows instant set-up and easy storage.
- One-person operation
- Measure over any distance or elevation without math.

### Leica Machine Receivers - Highly accurate grade control (All have 100' remote range)

|         |         |                                                                           |
|---------|---------|---------------------------------------------------------------------------|
| 742440  | MC200   | Depthmaster with Magnetic Bracket - 650' range, NiCd Rech.                |
| 742438  | MC200   | Depthmaster with Clamp-on Bracket - 650' range, NiCd Rech.                |
| 773569  | LMR240  | 240 Machine Receiver, Mag. - 750' range , 3X AA batteries                 |
| 6003354 | LMR360R | Receiver with clamps, charger, NiMH batteries, case and manual            |
| 6003355 | LMR360R | Receiver with magnetic brackets, charger, NiMH batteries, case and manual |

# Lasers - Disto Handheld Laser Distance Meters



## Leica Disto Lasers

Three-Year warranty after online registration.



| X6 P2P Package           |             |                                                      | X6      | D5 | D2G           | X3              | D2       | D1           |
|--------------------------|-------------|------------------------------------------------------|---------|----|---------------|-----------------|----------|--------------|
| Point-to-Point Measuring |             |                                                      | Outdoor |    | Hi-Visibility | Advanced Indoor |          | Basic Indoor |
| Model                    | Part Number | Description                                          |         |    |               | Bluetooth       | Accuracy | Range        |
| X6 P2P Pack              | 950878      | Point to Point laser measure to capture data for CAD |         |    |               | V5.0 Tech.      | 1/16"    | 820'         |
| X6                       | 950909      | Extremely rugged handheld measuring                  |         |    |               | V5.0 Tech.      | 1/16"    | 820'         |
| D5                       | 950908      | Indoor and outdoor laser measuring                   |         |    |               | V5.0 Tech.      | 1/16"    | 660'         |
| D2G                      | 1017809     | High visibility <b>Green</b> Beam laser measure.     |         |    |               | V6.0 Smart      | 1/16"    | 393'         |
| X3                       | 850834      | Designed for tough, rugged conditions                |         |    |               | V4.2 Smart      | 1/16"    | 500'         |
| D2                       | 1017800     | Compact device - long range                          |         |    |               | V6.0 Smart      | 1/16"    | 492'         |
| D1                       | 846805      | Professional indoor laser measuring for all          |         |    |               | V4.2 Smart      | 1/8"     | 130'         |

## Accessories for DISTO™ and Lino



### DST 360 + TRI120 (848783)

The DST 360 is an intelligent adapter that transforms your DISTO **X3** or **X4** into a real measurement station, allowing you to accurately measure distances between any two points—what we call Point to Point measurement—from one position. For use with the Disto X3 or X4.



### DST 360 Tripod Adapter ( 864982)

The intelligent tripod adapter Leica DST 360 is the ideal complement for the Leica DISTO **X3** and **X4**. It enables the measurement of a distance between any two points, the capturing of 2D and 3D data for further processing in CAD programs and the precise targeting of an object. The sturdy metal housing ensures optimum robustness and consistently accurate measurement results. Use with the Disto X3 or X4.



### DST 360-X Adapter (946095)

The intelligent tripod adapter Leica DST 360-X is the ideal complement for the Leica **DISTO X6**. It enables the measurement of a distance between any two points, the capturing of 2D and 3D data for further processing in CAD programs and the precise targeting of an object. The sturdy metal housing ensures optimum robustness and consistently accurate measurement results. For use with the Disto X6.



### TPD 100 Kit (6012352)

The target plate for improved targeting with digital Pointfinder on long distances. The kit with pole and bubble enables measurement on landmarks and performance of basic surveying tasks with a Leica DISTO. For use with all distos.



|               |        |                                  |
|---------------|--------|----------------------------------|
| Tri70 Tripod  | 794963 | Adjustable Tripod 15-3/4" to 45" |
| Tri100 Tripod | 757938 | Adjustable Aluminum Tripod       |
| Tri105 Tripod | 975728 | Adjustable Aluminum Tripod       |
| Tri200 Tripod | 828426 | Rugged Aluminum Tripod w/case    |
| GLB30 Glasses | 780117 | RVL80 Receiver 838757            |
| GZM3 Target   | 820943 | GZM26 Target 723385              |



GZM3 Target



GZM3 Target



GLB30 Glasses



Tri100



Tri105



Tri200



# Lasers - Lino Lino and Point Lasers



## Leica Lino Technology with Red & Green Lasers

Advanced line and point laser technologies in combination with smart adapters are fit for all alignment, leveling or plumb applications. Excellent beam visibility and flexible power sources supported by mounts that place the line where it needs to be.

Green lasers are four times more visible to the human eye if compared to red lasers. This means green lasers are more suitable for longer distances and have increased visibility in bright environments.

### Leica Lino Lasers

**Set-up, switch-on and start working.**

Leica Lino lasers project lines or points to millimetre accuracy, making it easier for you to get the job done right. All Leica Lino lasers are self-levelling, so you can set-up, switch on and start working. Multi-purpose. Ideally suited for leveling and aligning wall mounts and location transfers. Useful for vertical or horizontal transfers or for 90° layouts.

**Three-Year warranty after online registration.**

### Leica Lino L6R and L6G

The Leica Lino L6R and L6G self-leveling **red** and **green** multi-line lasers. Working range up to 230 feet in diameter.

Project 360° horizontal and vertical transfer lines around the workspace. Line intersections define transfer points from wall-to-wall or floor-to-ceiling. IP54 rating, great for jobsites. Multi-directional alignment.

**L6Rs** 918976 base    **L6Gs** 918977 base  
**L6R** 912969 package    **L6G** 912971 package



| Model        | Part No. | Description                                    | Leveling accuracy | Range |
|--------------|----------|------------------------------------------------|-------------------|-------|
| P5           | 864427   | Forget about plumb bobs or strings. 5 points   | ± 0.2 mm/m        | 100'  |
| <b>L2P5G</b> | 864435   | Easy to see. 2 green lines and 5 green points. | ± 0.2 mm/m        | 115'  |
| L2P5         | 864431   | Combining 2 red lines and 5 red points         | ± 0.2 mm/m        | 82'   |
| <b>L2G</b>   | 864420   | Cross line laser featuring 2 green lines.      | ± 0.2 mm/m        | 115'  |
| L2           | 864413   | Easy to use with 2 red lines.                  | ± 0.2 mm/m        | 82'   |

### Accessories for DISTO™ and Linos

| Description                                                                         |                                                     | Description                                                                         |                                                                                    |
|-------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|   | Laser GLB30 Red Glasses Kit (780117)                |  | Red Magnetic Target Plate (758831)                                                 |
|  | Laser GLB10R Red Glasses (834534)                   |  | Green Target Plate (823195)                                                        |
|   | Laser GLB10G Green Glasses (772796)                 |  | GZM3 Target Plate (820943)                                                         |
|   | Leica RVL Line Laser (838757)                       |  | GVM26 Target Plate (723385)                                                        |
|   | Leica RGR 200 Red and Green Laser Receiver (838757) |  | TRI70 Telescoping Tripod 16 - 45 inches with 1/4-20 threads and carry bag (794963) |



Our most popular heavy duty field supplies for daily work.



## Kuker Ranken Hand Levels

Kuker-Ranken 2x Hand Levels are hand-finished for smooth and accurate operation with etched glass prisms and precision ground lenses. Includes leather case.



## Party Chief Safety Vest

PC15X Party Chief Survey vest with full reflective "X" BACK striping design. ANSI 107/CSA Z-96 compliant for use in the US, Canada and all across North America. Features: heavy duty 500/600D material, hammer hangers and padded shoulders.



## Hard Hats - MSA

Front brim, standard hard hats. Superior top impact protection. Built for use by utilities, oil, gas and other areas where head protection is needed. Made of durable polycarbonate. White, Yellow, Orange, Blue and Pink



## Hand Tools

### Scribes

|     |                            |
|-----|----------------------------|
| KCS | Premium Scribe with magnet |
| KPS | Premium Scribe             |
| KGS | Giant Scribe               |

### Machete's

|       |                    |
|-------|--------------------|
| 33683 | 22" Machete Blade  |
| 33684 | 24" Machete Blade  |
| 33650 | 22" Machete Sheath |
| 33670 | 24" Machete Sheath |

### OrangeTops

|       |                            |
|-------|----------------------------|
| FP-18 | 18" Extra Rugged Frost Pin |
|-------|----------------------------|

### LimeTops

|             |               |
|-------------|---------------|
| 17-GAD18    | 18" GAD       |
| 17-FPY18FY  | 18" Frost Pin |
| 17-MCP32-FH | 32" Manhole   |

### RedTops

|        |                  |
|--------|------------------|
| 4418GD | 18" GAD          |
| 4418RT | 18" Frost Pin    |
| 4432DP | 32" Manhole Pick |

### Heavy Tools

|             |                    |
|-------------|--------------------|
| 17-EWB3-4LB | 4lb. Sledge Hammer |
| E3-16S      | 16oz. Rip Hammer   |
| E3-22p      | 14oz. Rock Pick    |



## Kuker Ranken Rainier Vest

Our Rainier Vest is made of Urethane Coated 1000 Denier Cordura® Nylon. This is a tough, durable, long lasting fabric that can withstand all weather. Rugged, double stitched, Class 2.



## Seco 8265 Safety, Class 2 Utility Vest

Meets ANSI/ISEA Class 2 requirements. Made of durable polyester, brass grommets, heavy duty webbing and trim. Sizes Medium to 4X. Fluorescent Orange.



The MAG Nail has also been coated with an environmentally friendly zinc and clear chromate to resist corrosion. MAG Nail is your replacement survey nail for PK or Parker Kalon.



|        |                     |
|--------|---------------------|
| 247500 | 3/4"x1/8" 100/bx    |
| 241000 | 5/32"x1" 100/bx     |
| 341250 | 3/16"x1-1/4" 100/bx |
| 241500 | 1/4"x1-1/2" 100/bx  |
| 242000 | 1/4"x2" 100/bx      |
| 242500 | 1/4"x2-1/2" 100/bx  |
| 243500 | 3 1/2"x 1/4" 100/bx |



**60-D Nails** Heavy duty 60-D bright 6" common nails. Sold in bundles of 25 or 50lb. Boxes. (approx. 500)



## Grade Checking

Adjustable –Swedes White Set of 3

Grade Checking Swedes Set, designed to ensure precise grading and leveling for construction, landscaping, and surveying professionals.

Made to handle, mud, rock and rough handling. A solid fit for construction, landscaping and surveying.



## Plumb Bobs

|          |                      |
|----------|----------------------|
| 6000-012 | Seco Plumb Bob 12oz. |
| 6000-014 | Seco Plumb Bob 14oz. |
| 6000-016 | Seco Plumb Bob 16oz. |
| 6000-018 | Seco Plumb Bob 18oz. |
| 6000-024 | Seco Plumb Bob 24oz. |



# Field Supplies



**Copy or laser print your own all-weather forms:**  
Charts, Maps and Worksheets on patented Rite in the Rain All Weather Copier paper. 200 pages.

## Part#:

#8511 8-1/2x11 50/sheets  
#8517 11x17 200/sheets

301FX Stapled Notebook - Field Flex - Transit 3/pk  
311FX Stapled Notebook - Field Flex - Level 3/pk  
351FX Stapled Notebook - Field Flex - Field 3/pk  
391FX Stapled Notebook - Field Flex - Journal 3/pk  
300F Bound Book - Fabrikoid Cover - Transit  
310F Bound Book - Fabrikoid Cover - Level  
350F Bound Book - Fabrikoid Cover - Field  
390F Bound Book - Fabrikoid Cover - Journal

## Rite in the Rain

Durable Clicker Pens  
Write on wet paper, upside down and won't leak.

## Part#

#OR97 - Orange Pen, Black Ink  
#BK13 - Black Ink  
#97B - Blue Ink  
#97 - Black Ink



## Mechanix Wear Gloves

Designed for Mechanics, construction workers, trade professionals, service members and law enforcement. Provides protection from Cuts, Abrasion, Impact, Heat & Liquids. Utility, Nitril, Durahide, HI-Viz and M-Pact.



## Komelon Measuring Tapes

use a vertically integrated manufacturing process utilizes the highest grade materials to insure an accurate, long-lasting tool that is guaranteed to withstand the harshest of work environments.

**KOMELON.**



## Aervoe Survey Marking Paint

A superior upside-down marking paint designed for survey marking. Clear, Red, Yellow, Blue, Green, Orange, Black, White, Silver, Purple, Red-Glo, Orange-Glo, Green-Glo, Yellow-Glo, Blue-glo and Pink-Glo



## Seymour Ground Marking Paint

A solvent or non-solvent ground marking paint with fast-drying properties, vivid colors and non-clogging spray nozzle.



## Presco Roll Flagging

-20F temperature resistance for superior weathering qualities. 2.0 mil for Standard Colors and 3.0 mil for Glo colors. Texas Grade - standard & glo Red, blue, yellow, orange, green, white, red-glo, yellow-glo, orange-glo, green-glo, blue-glo, pink-glo & lime-glo

## Wood



| Part No. | Descr.               |
|----------|----------------------|
| SL2812   | 5/8"x12' Ft/Inches   |
| SL2825IE | 1"x25' Inch/Engr.    |
| 7125IE   | 1"x25' Inch/Engr.    |
| 425IEHV  | 1"x25' Inch/Engr.    |
| 433IEHV  | 1"x33' Inch/Engr.    |
| 6611     | 1/2"x100' Inch/Engr. |
| 6622     | 1/2"x200' Inch/Engr. |
| 6633     | 1/2"x300' Inch/Engr. |

| Part No.           | Descr.             |
|--------------------|--------------------|
| 2x2x6              | 6" Hubs 25/bndl    |
| 2x2x8              | 8" Hubs 25/bndl    |
| 2x2x10             | 10" Hubs 25/bndl   |
| 2x2x12             | 12" Hubs 25/bndl   |
| 2x2x18             | 18" Hubs 25/bndl   |
| 2x2x24             | 24" Hubs 25/bndl   |
| Lath 24            | 24" Lath 50/bndl   |
| Lath 36            | 36" Lath 50/bndl   |
| Lath 48            | 48" Lath 50/bndl   |
| 1x2x18             | 18" Stakes 50/bndl |
| 1x2x24             | 24" Stakes 50/bndl |
| 24" Wood Lot Board | 25/bndl            |

## Stake Chasers

Our stake chasers are designed for maximum visibility and durability. 6" with steel loop. White, orange, yellow, red, blue, pink, green-glo, orange-glo



**Smi-Carr, Inc.**

# Surveying & Construction Accessories



92XXX Series 98010 Series

| Part Number | Description                                                  |
|-------------|--------------------------------------------------------------|
| 92001       | 8' Fiberglass Rods 10ths, Square                             |
| 92021       | 13' Fiberglass Rods 10ths, Square                            |
| 92041       | 16' Fiberglass Rods 10ths, Square                            |
| 92031       | 20' Fiberglass Rods 10ths, Square                            |
| 98010*      | 25' Fiberglass Rod 10ths, Rectangular-Oval, Surveyors Series |

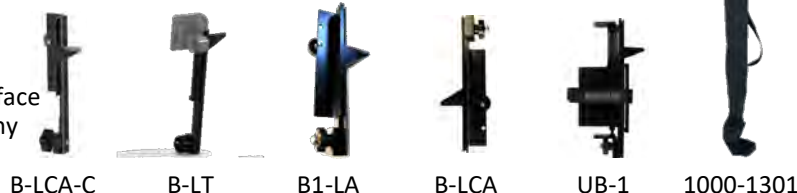
**seco**

Features rectangular shape with rounded back corners for better gripping. Scale width is graduated to fill the entire face of the rod. Strong fiberglass, waterproof, corrosion-resistant and non-conductive. Features a 1/4 x 20 female adapter in the top section.

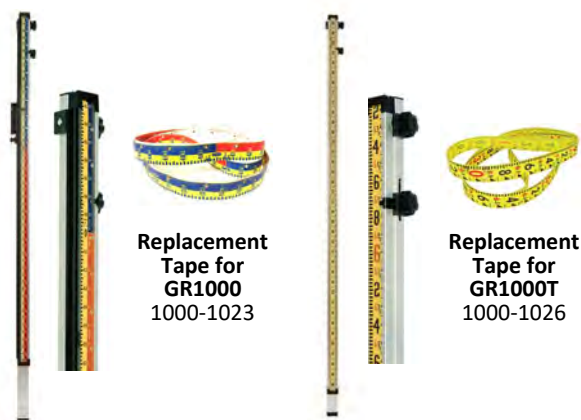
\*98010 is a rectangular-oval shape which allows for wide, glare-resistant and wear-resistant scales

## Direct Reading (Lenker Style) Grade Rods

These Lenker Style Grade Rods feature a moveable tape face allowing you to set the actual benchmark elevation, or any elevation, above or below the bench into the rod



| Part#      | Description                                                                                                                                                                       |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B-LCA-C    | Leica Bracket for Leica CLC Detectors                                                                                                                                             |
| B-LT       | AGL LS-100, Apache Lightning 2, Twister, Futura, Laser Reference R8, Leica RE-Plus, Sokkia MLR, Trimble HR250, 320, 350                                                           |
| B1-LA      | Apache Cyclone, Leica RE Pro/Classic, Topcon LS100D                                                                                                                               |
| UB-1       | Universal Bracket—Virtually all detectors                                                                                                                                         |
| B1         | AGL LS-4, Apache 34/44 Lightning, CST Berger LD100/120/200/400, DW LD18, Laser Alignment 4/5/6/7/8, Laser Reference R4/R5/R7, Nikon3, DS-30, LS-6, Sokkia, Spectra, Trimble HR200 |
| B1-LS70/80 | Futura CR3, Topcon LS30, LS50. LS70, LS80, LS1                                                                                                                                    |
| B-Storm    | Apache Storm, Future CR4, Leica RE/Digital                                                                                                                                        |
| 1000-1301  | 10' Lenker Rod Black Cordova Carry Bag                                                                                                                                            |



Replacement  
Tape for  
GR1000  
1000-1023

Replacement  
Tape for  
GR1000T  
1000-1026

**GR1000**  
10' Direct Reading Rod  
Feet, Tenths, Hundredths  
With cut & fill

**GR1000T**  
10' Direct Reading Rod  
Feet, Tenths, Hundredth  
**LASERLINE MFG, INC.**

**Nedo 660050**  
Leica Prism  
adapter

**Nedo 061837**  
5/8" to 3/8"  
Tripod Adapter

**Nedo 660030**  
Tripod Dolly  
Lockable/Steerable

**nedo**  
Precise surveying and measuring

**Nedo 210710**  
Elevating Tripod w/4  
extension tubes

**726-831 Leica GST101**  
Heavy Duty Wood  
Tripod Extends to 65"

**Dutch Hill GT2000A**  
Fiberglass Composite  
Tripod Extends to 72"

**Tri-Max 90550**  
Heavy Duty Fiberglass  
Tripod Extends to 71"

**Seco 5301-25-BLK**  
Heavy Duty Aluminum  
Tripod Extends to 63"

**667-301 Leica GST120-9**  
Heavy Duty Wood  
Tripod Extends to 70.8"



# Marking Products



**Paint-Riter® Valve Action®** is a fast-drying liquid paint marker that provides long-lasting, wear- and weather-resistant marks that are safe for almost any surface. As the most versatile liquid paint marker in the world, the xylene-free paint reduces user health risks and is available in 18 bold and fluorescent colors for accurate mark identification. Can be used on steel and iron, plastic, glass, pipes and tubes, rubber and tires, cloth and fabric.



|        |        |        |            |        |       |        |             |
|--------|--------|--------|------------|--------|-------|--------|-------------|
| 096820 | White  | 096825 | Blue       | 096822 | Red   | 097052 | Flo. Orange |
| 096821 | Yellow | 097051 | Flo. Green | 096823 | Black | 097053 | Flo. Pink   |

**The Paintstik Original B Solid Paint Marker** combines the durability of paint in the convenience of a crayon. The real paint formula has superior marking performance on oily, icy, wet, dry or cold surfaces and is weather- and UV-resistant. This Paintstik works on rough, rusty, smooth, or dirty surfaces. Perfect on steel, iron, pipes and tubes, rubber and tires, lumber and timber, plastic, glass, concrete and stone.



|        |        |        |       |        |             |        |            |
|--------|--------|--------|-------|--------|-------------|--------|------------|
| 080220 | White  | 080222 | Red   | 080230 | Gray        | 082836 | Flo. Green |
| 080224 | Orange | 080223 | Black | 082831 | Flo. Yellow | 082842 | Flo. Pink  |
| 080221 | Yellow | 080225 | Blue  | 082834 | Flo. Orange |        |            |



**Markal Timberstik All Purpose Crayons** are a soft, standard-grade lumber crayon for general-use marking and works well in cold climates. The wax-based mark is weather- and UV-resistant. Works on wood, concrete, stone, metal, plastic and rubber.

|        |        |        |       |        |        |
|--------|--------|--------|-------|--------|--------|
| 080350 | White  | 080352 | Red   | 080354 | Orange |
| 080351 | Yellow | 080353 | Black | 080355 | Blue   |



The **#085490** wooden holder eases grade and lumber marking while preventing crayon breakage, designed for hex-shaped Markal markers.



The **#085489** wooden holder for round crayons enhances comfort during marking while reducing breakage, making it a reliable tool for precision.



**#096867** Replacement tips will extend the life of the marker by maximizing the paint or ink used when marking on very rough, rusty, or dirty surfaces. 12/pk



**#KCS Premium Scriber with Magnet**  
Aluminum handle with pocket clip and magnet. Replaceable readed tip



**#KGS—Giant Scriber**  
Aluminum handle with pocket clip. Replaceable threaded tip. Extra large size is 6.25" long



**#KPS - Premium Scriber**  
Aluminum handle with pocket clip. Replaceable threaded tip



**Stringliner PRO Mason's Line Reels** are made of durable polyethylene, with a patented handle that allows you to quickly change rolls. You can rewind using the hand crank, or auto-rewind using a power screwdriver inserted into the slot in the bottom of the handle. Available in 250' or 1000' lengths.

## 250' Length

- 25106 Orange
- 25115 Flo. Green
- 25165 Flo. Yellow
- 25162 Flo. pink

## 1000' Length

- 25768 Green
- 25762 Pink
- 25759 Orange
- 25765 Yellow



**Chalk-Rite® Jam Free #CR301JF** Smooth winding 5-gear drive chalk line with ABS case, jam free line spool, and braided Extra Bold snap line.

- Jam-free braided line creates Extra Bold 0.04 in ( 1.0 mm ) lines
- Durable ABS case with large refill port
- Smooth-running five-gear winding mechanism



# Leica Robotic Total Stations



## Automated Total Stations for the widest variety of measurement tasks and applications



### Leica Nova MS60 MultiStation

#### The scanning robotic total station



The **Leica Nova TM60** helps you confidently monitor structures and critical assets by delivering precise, continuous measurement data when you need it most. Designed for demanding monitoring applications, it provides reliable real-time information so you can quickly detect movement and make informed decisions.

With 24/7 monitoring capability, the TM60 tracks settling, shifting, flexing, and other structural changes with exceptional accuracy. Its industry-leading ATRplus technology offers the longest automatic target recognition range, while half-second automatic aiming ensures precise, dependable measurements for long-term monitoring projects.



Leica MS60



- **Surfaces and volumes** in construction and mining, soil heaps and stock-piles, DTM creation and checking surfaces, material thickness, blast faces and ground levels
- **Analysis of complex structures and objects within plant, marine and utility projects:** dimensional control, as-built and record keeping.

### Leica TS20 Robotic Total Station

Be ready for surveying excellence with the total station defining the standard for productivity and the future of robotic



The Leica TS20 is the robotic total station productivity powerhouse for everyday surveying, from cadastral to construction. Packed with advanced automation, IP66 protection, integrated connectivity, cloud services, fast and maintenance-free motors, and much more, the TS20 ensures efficiency and reliability in even the most challenging environments.'

Whether you're setting up a control network, measuring points or staking out designs, the TS20 delivers a next-level total station experience empowering surveyors to work faster with fewer mistakes and total confidence. Be ready to elevate your surveying and



Leica TS20



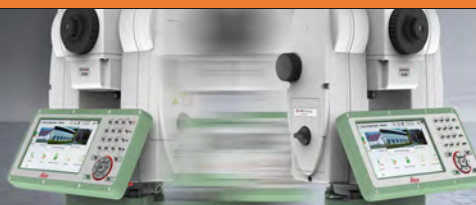
- **Advanced Automation** - Total station, meet NPU. Thanks to super in-field processing power, the TS20 automatically detects prism types and boosts efficient measuring with AI-Powered search and target aiming, even to tapes.
- **Leica AP20 optimized** - The pair for productivity. The only of its kind TS20-AP20 combo is the smart prism pole solution for strongest lock, worry-free height changes, and flexible, tilted measuring. It's where speed and accuracy meet for total efficiency.
- **All-weather ready** - No more rain checks. With IP66 for high dust and water protection and AI powered target aiming trained on the toughest conditions, measure through any weather.



# Leica Robotic & Manual Total Stations



## Automated Total Stations for the widest variety of measurement tasks and applications



### Leica TS13 Mid-Range Robotic Total Station

Combining efficiency, reliability and scalability for all surveying applications.



The Leica TS13 robotic total station solution works with the revolutionary Leica Captivate software, turning complex data into the most realistic and workable 3D models.

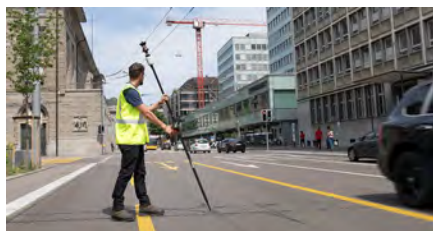
With easy-to-use apps and familiar touch technology, all forms of measured and design data can be viewed in all dimensions. Captivate spans industries and applications with little more than a simple swipe.



Leica TS13

The Leica TS13 total station provides a fast, reliable and efficient solution to measure and layout more points, tailored to the users needs. Equipped with Automatic Target Recognition (ATR) technology and optionally with prism lock and prism fast search functionalities, it enables to automatically measure or independently stake points across all applications.

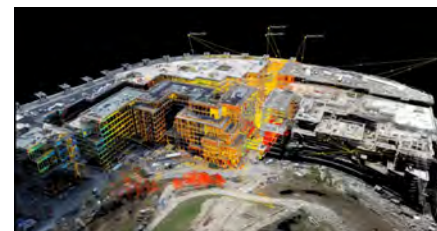
- **Efficient data collection for mapping projects:** measurements, adjustments, and computations – all supported by powerful coding and linework routines.
- **Easy-to-use and data-centric field software:** efficient data collection, management, visualisation, import and export.
- **Upgradeable total station for measurement and layout tasks:** starting with two-person, scalable to one-person operation.



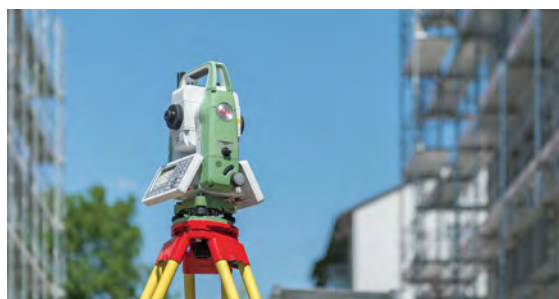
Leica AP20 AutoPole



Leica Captivate



Leica Infinity



The **Leica FlexLine Series** is a line of reliable manual total stations designed for surveying, construction layout, and engineering measurement tasks. The FlexLine family—include the models: **Leica FlexLine TS03**, **Leica FlexLine TS07**, and **Leica FlexLine TS10**— the offer accurate distance and angle measurements along with intuitive onboard software for efficient field workflows. The instruments are designed to help surveyors measure more points with fewer errors, while features like AutoHeight, modern connectivity options, and rugged construction improve productivity and reliability on job sites ranging from construction and topographic surveying to civil engineering projects.

### Leica Flexline TS03/TS07/TS10 Manual Total Stations

Best in class and easy to use.

The FlexLine TS10 is equipped with Leica Captivate field software, enabling you to tie into the modern 3D dataflow – including enhanced linework and coding. The new Leica FlexLine manual total stations work reliably and deliver accurate results even in harsh environments.



# Leica Surveying Equipment

## Leica GNSS and Field Controllers



### Leica GS18 Series GNSS RTK Rovers

The Leica GS18 Series Rovers from Leica Geosystems are advanced GNSS RTK surveying solutions designed to deliver high-accuracy positioning, faster field workflows, and reliable performance in challenging environments. The GS18 Series includes innovative models such as the GS18 T with calibration-free tilt compensation and the GS18 I with visual positioning technology, allowing surveyors to measure points that were previously difficult or unsafe to capture.

- Advanced GNSS RTK technology with multi-frequency satellite tracking for reliable, high-precision measurements
- Available with tilt compensation and visual positioning capabilities for faster, safer field data collection.
- Seamless integration with Leica Captivate software and support for rover or base station operation.



Push productivity further with the **Leica GS18 Series Rovers**, featuring advanced GNSS performance, tilt compensation, and visual positioning technology. Built for speed, accuracy, and reliability, these rugged solutions help surveyors capture data faster in even the toughest field conditions.



**Leica**  
GEOSYSTEMS



### Leica AP20 AutoPole

#### Leica AP20 AutoPole

The AP20 is the only smart system on the market that solves three common workflow problems: **Tilt Compensation, Pole Height** and **TargetID**

- Accuracy in height: +/- 1.0mm
- Tilt range: +/- 180°
- Range to Total Station: Typically 300m
- Number of different IDs: 16
- IP67 Dust and Water Resistance



### Leica CS20

#### Leica CS20 Field Controller

With the CS20, you are in complete control and can take your entire office on the go. It provides you with an intuitive user experience and makes your measuring tasks enjoyable.

- Win EC7 / 2GB Ram
- 4GB Internal storage
- 5" Touch Screen
- IP68 Dust/Water Resistant
- 8 hour battery life.



### Leica CC200

#### Leica iCON CC200 - Field Controller.

The rugged 10" Leica iCON CC200 field controller delivers longer operating times and better usability than other solutions, thanks to its single 11-hour battery and large screen.

- Win 11 IoT Enterprise LTSC
- Intel® Core™ Ultra5 processor
- 16GB RAM / 512GB Data Storage
- Dust / Water - IP6x/IPx5



# Construction Layout and 3D Measurement



## Leica iCON iCS50 - Trouble Free Digital Templating & Interior Finishing

The robotic Leica iCON iCS50 provides exceptional flexibility and efficiency because it combines the benefits of laser technology with the advantages of the Leica vPen, the wireless measurement pen.

The Leica iCON iCS instruments' camera constantly observes the sphere of the Leica vPen with its unique dot pattern to precisely calculate its position from any direction accounting for tilt and orientation. Learn more about the advanced functionality that comes with the Leica vPen, Leica vPole, Leica vSphere, and Leica vTargets.



### Leica vPole - Layout More Points

The unique visual-based target tracking is very robust and ensures that the Leica iCON iCS50 always stays connected to the Leica vPole. It also automatically compensates for pole tilt and automatically detects the pole height.



### Leica vPen - Ideal for Digital Templating

This unique wireless measuring pen is very versatile and extremely precise ( $\pm 1$  mm accuracy at 10 m). You can use it to measure on any surface, including glass, by simply touching the point you want to measure.



### Leica vTarget - Easy Relocation

The visual-based target detection and the automated process greatly simplify the relocation of the device. New Leica vTargets are automatically detected. This saves time, avoids errors and allows you to quickly continue your layout.



### High Degree of Flexibility

The Leica iCON iCS50 combines the benefits of laser technology with the advantages of Leica vPole and Leica vPen. Simply switch from one method to the other, depending on whichever supports your layout or measurement requirements best.

### Your advantages:

- One-person operation
- Fast and Accurate Layout
- Easy Relocation
- Robotic motorization
- Measuring range: 0.3m - 50m (1' - 164')
- Simplified measurement and layout process due to visual measurement technology
- Quickly ready for use due to the 'auto-setup' process
- Easy relocation with Leica vTargets
- WiFi connection to tablet
- Li-Ion battery for a full working day
- Office to Field with Flexible Data Access

More information  
and product videos.





## Leica iCON iCG70T GNSS Rover

Super-modern technology for good old-fashioned accuracy.

The Leica iCON iCG70T is a rugged GNSS rover built for fast and accurate construction layout and stakeout tasks. With advanced tilt compensation technology, users can measure points without leveling the pole, improving productivity and accuracy on busy job sites. Integrated with Leica iCON software, the iCG70T delivers reliable performance even in challenging environments.

- Advanced tilt compensation for measuring without leveling the pole
- Calibration-free IMU technology resists magnetic interference
- Fast and accurate GNSS positioning for construction layout tasks
- Rugged, jobsite-ready design built for harsh environments
- Seamless integration with Leica iCON construction software



## Leica LDT-05 5-Sec Digital Theodolite

Digital electronic theodolite for construction

The Leica LDT-05 is a 5-second digital electronic theodolite designed for construction, engineering, and surveying applications, offering precise angular measurements and, in some configurations, 20x magnification. It is built for tasks such as alignment, grade work, and vertical plumbing

- **Accuracy:** 5-second angular accuracy.
- **Magnification:** 20x (some models may be listed with 30x, though 20x is common in search results).
- **Laser Plummet:** Included for fast and easy setup over a point.
- **Display:** Dual, back-lit LCD panels for easy reading on both sides.
- **Compensator:** Automatic vertical angle compensator (tilt sensor) to maintain accuracy.



## David White Digital Transit Theodolite with Laser Plummet

30X Power Magnification | 5" Accuracy | Dual Digital Display | Water Resistant

The David White DT8 Digital Transit Theodolite gives you accurate measurement for a wide range of construction and survey applications.

- Incremental encoding detection system with dual digital displays and automatic power shut-off
- Laser plummet for centering of point
- Coaxial tangent and clamp screws provide ease of use in sighting and alignment
- Built-in battery pack can be attached and detached by a single action
- Water resistant, sealed construction

**Includes:** instrument, sunshade, tool kit, rain cover, plumb bob, carrying case, rechargeable battery pack/charger, alkaline battery tray, user manual



No. 46-D8896





# Detection Equipment



## A clearer view of underground utilities

MADE IN THE **USA**

### Magnetic Locators

*"Magnetic Locators are the quick and easy way to find ferrous and now non-ferrous materials both above and underground."*



**SCHONSTEDT**  
INSTRUMENT COMPANY

**Schonstedt GA-52CX**

**Schonstedt Maggie**

**Subsurface ML-3SY**

**Subsurface AML Pro**

Detects the magnetic field of iron and steel objects.  
Great for locating Mag & PK Nails, Manhole Covers, Steel Pipes and Septic Tanks, Corner Markers, Well Casings and more...

Find buried PVC/PE Pipes using GPS and advanced digital technology

|                       |                          |                          |                           |                           |
|-----------------------|--------------------------|--------------------------|---------------------------|---------------------------|
| <b>Power:</b>         | 2X 9V Batteries / 40 hrs | 1X 9V Battery / 24 hours | 3X 9V Batteries / 40 hrs. | 3X 9V Batteries / 25 hrs. |
| <b>Length/Weight:</b> | 42" length               | 32.5"                    | 40"                       | 14" / 2.5lbs              |
| <b>Warranty:</b>      | 7 Year Warranty          |                          |                           | 3 Year Warranty           |

### Leica C-Thru

Utility Detection | Precision Utility Tracing | Cable Locating

All-in-one GPR for accurate scanning and real time analysis of concrete structures. See through concrete structures and reveal true data.

#### Finds:

Rebar, Voids, Post-Tension Cables, Cavities, Conduits More...  
Call for your customized quote.

**Leica**  
GEOSYSTEMS



**Leica GPR  
DS4000 & DSX Series**  
Ground Penetrating Radar & Utility Detection Solutions

There's a lot going on underground that you need to know about before you ever start to dig.

Leica Utility Detection Equipment finds all potential threats, including non-conductive pipes and fibre optics, increasing safety by lowering the risk of accidentally hitting underground assets.

### Leica DT100 / DD100 & DD300 Series

Locate Underground Cables and Pipes

The Leica DT100/DD100 & DD300 Series locators feature easy to use controls for the detection of buried cables and pipes before excavation work.

#### Finds:

Cast Iron Water, Cast Iron, Gas, Telecom Lines, Power Lines, More...Call for your customized quote.



### Unmanned Surface Vessels (USV / ROV)

Bathymetric surveying

Seafloor has been building Unmanned Surface Vessels (USVs) for over a decade. They lead the market with dynamic platforms that extend the capabilities of traditional survey equipment, enabling surveyors to remotely analyze otherwise challenging environments. Seafloor's turn-key USV platforms integrate professional-grade technology to efficiently conduct missions on water.



**Seafloor**

# Field Supplies & Accessories



**8080-00-ORG**  
Triple Prism  
Bag



**8130-00-ORG**  
Tall Triple  
Prism Bag



**8100-20-ORG**  
36" Rhinotek  
Lath Bag



**8101-20-ORG**  
48" Rhinotek  
Lath Bag



**8153-10-ORG**  
Extra Large  
Tripod Bag



**8180-20-ORG**  
Heavy Duty Prism  
Pole Tripod Bag



**8121-00-ORG**  
Top Loading Total  
Station Field Case



**09-2122-GT**  
2 Meter Alumi-  
num Snap-Loc  
Rover 10ths



**09-2222-GT**  
2.2 Meter Car-  
bon fiber Snap-  
Loc Rover 10ths



**5128-00**  
2 Meter two-  
piece Rover Rod  
Carbon Fiber



**07-4047**  
Mini Stake Out Rod 4.7"  
5/8x11 threaded stud



**641615**  
GMP111 Mini Prism with  
holder. Has a 4 section  
pole and prism with a  
constant of +17.5 mm



**8102-00-ORG**  
33" Large Lath Bag  
Carry up to 50 lath

**seco**



**07-4001**  
Mini Stake Out Rod 1.28'  
5/8x11 threaded tip  
1-1/4" OD

**07-4160**

Mini Prism Pole Bipod  
10" Aluminum Legs  
Holds poles 1" to 1.25"



**Seco 5217-04-RED**  
Thumb-Release Bipod  
No-crush bipod head  
for poles from 1 to  
1.25 inches  
Extends to 6 feet



**385500**  
GLS11 2.15  
Reflector Pole  
10ths and Metric



**754391** GLS12 2m (cm)  
**754389** GLS12F 2m (ft)  
Telescopic Pole  
"Snap Locks" at 2M



**667310**  
GLS112 3.65m  
Reflector Pole  
CM and Feet



**752292**  
GLS30 Carbon Fiber Pole  
1.8m and 2m "Snap Lock"  
5/8" Screw



**796-130**  
CRP3 Telescoping  
Carbon Fiber/Alum.  
Pole 10ths/100ths





# Field Supplies - Targets, Prisms and Carriers



**503010**

KR Reflective  
Adh. Targets  
30x30mm  
Yellow 18/pk



**503011**

KR Reflective  
Adh. Targets  
30x30mm  
Orange 18/pk



**503015**

KR Reflective  
Adh. Targets  
40x40mm  
Yellow 12/pk



**503016**

KR Reflective  
Adh. Targets  
40x40mm  
Orange 12/pk



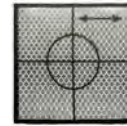
**503060**

KR Reflective  
Adh. Targets  
24x24mm  
Silver 35/pk



**503065**

KR Reflective  
Adh. Targets  
44x44mm  
Silver 12/pk



**503070**

KR Reflective  
Adh. Targets  
64x64mm  
Silver 10/pk



**503080**

KR Reflective  
Adh. Targets  
104x104mm  
Silver 1/pk



**644327**  
**Leica GRZ101**

360° Reflector with male  
1/4" thread on the top  
and female 1/4" thread  
on bottom. Can be  
mounted to the optional  
GLS115 prism pole.



**754384**  
**Leica GRZ122**

360° Reflector with 5/8"  
Threaded adapter allows  
connectivity to the Leica  
SmartAntenna



**639985**  
**Leica GRZ4**

Leica 360° prism with  
5/8-inch thread adapter.  
For all robotic work with  
a survey pole. 2,000  
foot working range and a  
prism constant of  
23.1mm



**763532**

Leica Adhesive  
Reflective Targets  
20mm x 20mm  
20/pk



**763533**

Leica Adhesive  
Reflective Targets  
40mm x 40mm  
20/pk



**763534**

Leica Adhesive  
Reflective Targets  
60mm x 60mm  
20/pk



**03-1517**  
**SitePro**

Swiss-style mini prism  
system is a compact set  
with high precision center-  
ing.. +17.5mm constant  
prism with built-in  
target plate



**641618**  
**Leica GPR111**

Basic Circular Tilting  
Prism with holder and  
target. Absolute  
prism constant is -  
34.4mm. Leica prism  
offset is 0.0mm. Uses



**641617**  
**Leica GPR121**

Leica Pro Circular Prism  
with Holder. Made with  
high quality for strict  
working conditions.



**03-RT20MM**

Sitepro Reflective  
Retro Adhesive  
Targets  
20mm x 20mm  
10/pk



**03-RT30MM**

Sitepro Reflective  
Retro Adhesive  
Targets  
30mm x 30mm  
10/pk



**03-RT40MM**

Sitepro Reflective  
Retro Adhesive  
Targets  
40mm x 40mm  
10/pk



**03-RT60MM**

Sitepro Reflective  
Retro Adhesive  
Targets  
60mm x 60mm  
10/pk



**6602-02**

Seco 25 mm L-Bar  
Mini Copper-Coated  
Prism. Ideal for de-  
formation and mining  
surveys or where  
permanent mounting  
is needed.



**6605-05**

Seco 25 mm L-Bar  
Mini Silver-Coated  
Prism. Ideal for de-  
formation and mining  
surveys or where  
permanent mounting  
is needed.



**Rothbucher**  
**RSMP390 / RSMP390M**

Mini Prisms with Swivel  
and Tilt Function. Mag-  
netic or non magnetic,  
silver or copper coating.  
Red or Gray.



**Rothbucher**  
**RS193 / RS193M**

Reflective magnetic or non  
reflective targets are 360  
degree rotatable and can  
always be precisely aligned  
with the instrument.



**8126-20 Sokkia Plastic**  
**Plumb Line Target**  
2" x 4" Red & White  
Notched for Plumb Line



**5080 Duramark Paper**  
**Survey Targets**  
5" x 8" Red & White  
Adhesive Back 25/pk



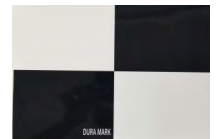
**Rothbucher**  
**RS80 Retro Reflective**  
**Angle Target**  
Two 40 x 40mm reflectors  
set at a 90° angle .



**Rothbucher**  
**RS AK80 Carrier Plate**  
with screwed reflective  
angle target (RS80) for short  
or long term monitoring.



**2540 Duramark Paper**  
**Survey Targets**  
2-1/2" x 4" Red & White  
Adhesive back, 25/pk



**7010 Duramark Paper**  
**Survey Targets**  
7" x 10" Black & White  
Adhesive Back 25/pk

# Tribrachs, Equipment and Accessories



**777508  
Leica GDF321**  
Leica Professional 5000 series green tribrach without optical plummet.



**777509  
Leica GDF322**  
Leica Professional 5000 green tribrach with optical plummet



**777970  
Leica GDF323**  
Leica PRO tribrach black without optical plummet



**05-1200-B**  
SitePro Tribrach with 8-minute circular vial and optical plummet



**05-1201-B**  
SitePro Eurostyle Tribrach with 8-min circular vial, black w/out optical



**05-1300-B**  
SitePro Eurostyle Tribrach with 8-min circular vial and laser plummet



**8071-00-ORG**  
Seco Tribrach Case  
Protect and transport your tribrach as you move from job to job. Easily holds a tribrach. Measures: 6 x 6 x 2 in Bright Orange Weighs .40 lbs.



**874838  
Leica SNLL321**  
Precision carrier with laser plummet  
The laser provides convenient steering up even in conditions of poor visibility. Reflector centring accuracy 0.3 mm, plummet accuracy 1.0 mm at 1.5m.



**725566  
Leica GZR103**  
Carrier with optical plummet. Rotatable carrier with longitudinal bubble for use in tribrachs without plummet. Reflector centring accuracy 1.0 mm, plummet accuracy 0.5 mm at 1.5 m.



**2010-00**  
**Seco Fixed Tribrach Adapter.** Use this adapter for mounting retro prisms and tripod mounted target systems.



**2020-00**  
**Seco Rotating Tribrach Adapter.** This rotating friction top adapter allows the prism to be pointed after installation in the tribrach.



**2070-00**  
**Seco Rotating Swiss-Style Tribrach Adapter.** This adapts retro prisms to Swiss-style tribrachs. Fits all tribrachs.



**667216  
Leica GRT146**  
Carrier with 5/8" Thread Perfect for tribrachs with optical plummet



**667313  
Leica GRT144**  
Tribrach adapter carrier for snap-in prisms and antennas



**2001-00**  
**Tribrach Adjusting Cylinder**  
Use for checking and adjusting optical plummet tribrachs in the office.



**2002-00**  
**Tribrach Adjuster**  
Use for adjusting optical plummet tribrachs & tribrach bubbles with 2-minute bubble.

## Leica Ultimate Backsight

### Leica 641617

Leica GPR121 Pro precision circular prism with anti-reflex coating, a mounted in metal holder and range of up to 11,500 ft. GPR121 target plate is removable.

### Leica 667313

Leica GRT144 Tribrach adapter carrier for snap-in prisms and antennas with optical plummet. Reflector centering accuracy: 1.0mm

### Leica 777509

Leica GDF322 Professional tribrach with optical plummet. High quality, robust tribrach with an 850 gram weight and Torsional stiffness < 1"





# Accessories



Genuine Leica Geosystems accessories, such as pole adapters, topo boots and replacement points, help ensure accurate and efficient surveying, keeping your jobs running smoothly.



**819952  
GLS30  
Pole Tip**  
Replacement prism  
pole point for Leica  
GLS30 & GLS31  
poles.



**667217  
GAD31 Screw  
to Stub**  
For mounting of  
GNSS antennas to  
poles and carriers  
with stub



**743503  
GAD105 Mini Prism  
Adapter**  
For attaching the  
GMP111,  
GMP111-0 to poles  
and carriers



**742006  
GAD103 Mini  
Prism Adapter**  
Mini prism adapter  
for attaching the  
GRZ101 to poles  
with stub.



**806685  
GAD103 Mini  
Prism Adapter**  
Mini prism adapter  
for attaching the  
GRZ101 to poles  
with stub.



**806687  
GAD103 Mini  
Prism Adapter**  
Mini prism adapt-  
er for attaching  
the GRZ101 to  
poles with stub.



**817345  
GAD103 Mini  
Prism Adapter**  
Mini prism adapt-  
er for attaching  
the GRZ101 to  
poles with stub.



**667236  
GAD103 Mini Prism  
Adapter**  
Mini prism adapter  
for attaching the  
GRZ101 to poles  
with stub.

Seco cutting edge accessories for surveying, construction, utilities and other industries that use GPS/GNSS technology.



**5194-003**  
Sharp point for  
tripod or prism  
pole



**5194-007**  
Dull point for tripod  
or prism pole



**5194-01**  
Aluminum point with  
replaceable plumb  
bob point



**5194-03**  
Lightweight dull point  
with replaceable tip



**5194-05**  
Lightweight sharp point  
with replaceable tip



**5194-00**  
Point with  
removable tip.



**5180-00**  
Double male  
adapter



**2090-00**  
Adapter for Leica  
prism



**2090-04**  
Height adapter for Seco,  
Sokkia, Omni 115mm prisms



**2131-01**  
5/8 x 11 female to 1/4 x  
20 female adapter



**91605**  
Aluminum point and  
steel tip



**6200-10-003**  
Replacement point  
for mini prisms



**2080-00**  
Leica prism  
adapter



**2080-SS**  
Stainless steel  
Leica prism pole  
adapter



**2090-10**  
Quick change adapter  
for Leica GPH1



**6601-01**  
Swiss-style quick release  
adapter with 1/4-20  
threads



**2090-02**  
Height adapt-  
er for Leica  
86mm prisms



**5187-00**  
GPS Quick release  
adapter



**5181-00**  
Double female  
adapter



**5192-02**  
Toopo Show &  
Point Combo



**91601**  
Topo boot



**5194-10**  
Center punch  
point



**5210-012**  
Seco Bipod/  
Tripod foot plate



**5195-01**  
Pole peg  
adjusting jig

# High Definition Scanning (HDS)



## Leica ScanStation P50

The fastest and safest, long-range 3D laser scanner.

**High Performance | Scan inaccessible places | Complete Scanning Solution**

For industry professionals looking to scan inaccessible places and find new business opportunities, Leica ScanStation P50 is the fastest and safest, long range 3D laser scanner. Unlike any other laser scanner, the P50 solution maximises productivity by scanning inaccessible places at a safe position on site, reducing time in the field with less setups.

- Highest quality 3D data and HDR imaging
- Ranges of up to 1 kilometre (.62mi)
- Low range noise
- Survey-grade dual-axis compensation



**Leica**  
GEOSYSTEMS

## Leica ScanStation P40/30

**The right choice | Reduce downtime | Industry leading software** Versatile high-speed laser scanner.

Leica ScanStation P30/P40 deliver highest quality 3D data and High-Dynamic Range (HDR) imaging at an extremely fast scan rate of 1 million points per second at ranges of up to 270m. Unsurpassed range and angular accuracy paired with low range noise and survey-grade dual-axis compensation form the foundation for highly detailed 3D colour point clouds mapped in realistic clarity.



- Highest quality 3D data and HDR imaging
- Ranges of up to 270 m (.62mi)
- Low range noise
- Survey-grade dual-axis compensation

**Leica**  
GEOSYSTEMS

## Leica RTC SERIES

**Advanced laser scanning. Real-time intelligence. Your work, made faster than ever.**

**Leica RTC300** - Agile reality capture for evolving projects. Up to 85 meters, 1 million pts/sec.

**Leica RTC500** - High performance scanning with operational flexibility. Up to 130 meters, 2 million pts/sec.

**Leica RTC700** - Maximum range and accuracy for demanding work. Up to 270 meters, 2 million pts/sec.

- **Three Scalable Tiers:** As your projects grow, you can upgrade your scanner to a higher performance.
- **Real-Time Collaboration (Livelihood):** Allows field teams to stream data directly to the Cloud. Allowing teams to view data and issues before leaving the site.
- **Automated VIS Registration:** Leica's Visual Inertial System (VIS) scanners automatically track your position from station to station, pre-registering your point cloud in the field.

**Leica**  
GEOSYSTEMS





# High Definition Scanning (HDS) Accessories



**Leica GEB461 / 973449**  
Battery Li-Ion, 10.8V/6.7Ah  
For use in the Leica RTC /  
RTC360



**Leica GEB242 / 793975**  
Battery Li-Ion, 14.5V/5.8Ah  
For use in the Leica P40/50  
Series



**Leica GKL341 / 799187**  
Four Bay Professional  
Charging Station for GEB  
Batteries



**Leica GKL311 / 799185**  
One Bay Professional  
Charger 3000 for GEB  
Batteries



**Rothbucher**  
Scanner Sphere  
with Magnet  
RSLB10M



**Rothbucher**  
Scanner target –  
RSL420M/  
RSL422M Series



**Leica GZT21**  
4.5" Circular B&W Tar-  
get for ScansStation  
822694



**Leica HDS 6"**  
Black and White Tilt  
& Turn Target  
793530



**Leica GEV282**  
Power Supply for  
ScanStation P-Series  
864640



**Omni Spheres**  
6 Piece Scanner  
Sphere with case  
4150-00



**Leica Flat Magnetic**  
Mount with 5/8"  
Male threaded post  
670229



**Leica GAD122**  
RTC360 to Leica  
Tripod Adapter  
870985



**Leica GAD132**  
Leica RTC Series  
Adapter  
1034013



**Leica GAD133**  
Leica RTS Series  
Adapter  
1034014



**Leica GAD120**  
Tribrach Adapter  
for RTC360 Scanner  
842067



**Leica GAD121**  
Wall Mount  
Adapter for RTC360  
842068



**Leica GDF323**  
Tribrach w/out  
Optical Plummet  
777970



**Leica MS256**  
Industrial USB Stick  
256GB For RTC360  
842065



**Leica GAD50**  
For mounting re-  
flectors & targets  
823044



**Leica GAD51**  
Stub to Screw  
Adapter  
850569



**Leica GVP781**  
Backpack for  
RTC Series  
1015142



**Leica GVP736**  
Backpack for  
RTC360  
865471



**Leica GVP730**  
Container for RTC360  
& Accessories  
817063



**Leica GST80**  
Carbon Tripod for  
RTC360 62"  
842066



**KukerRanken**  
Heavy Duty Carbon  
Fiber Tripod 78"  
KRTRIP711



**Nedo Tripod**  
2-Way Elevator Tripod  
197" / 16.4'  
210710



**Nedo Tripod Dolly**  
with large wheels,  
extra sturdy  
660030



# Leica BLK Series Scanners



## Leica BLK360 Imaging Laser Scanner

The all-new **Leica BLK360** is an advanced precision imaging laser scanner. The next generation of the smallest and lightest laser scanner has arrived. At the push of a button, users can capture a full scan with spherical images in only twenty seconds—over five times faster than the BLK360 G1.



- Four scan settings capture data in 7, 13, 30, or 75 seconds at 680,000 points per second
- Rich high dynamic range (HDR) imagery with 5 bracket HDR
- Small and light, measuring 155x80mm and weighing just 850 g with batteries installed
- 5 times faster than the BLK360 G1, taking 20 seconds for a full-dome scan with photospheres
- Visual Inertial System (VIS) automatically pre-registers scans in the field
- High speed data transfer via USB-C and WiFi

## Leica BLK2GO LiDAR & Imaging— Mobile Mapping. Simplified

The **Leica BLK2GO** is a lightweight, handheld imaging laser scanner designed for fast and efficient reality capture while walking through indoor or outdoor environments. Using Leica's GrandSLAM technology, the BLK2GO combines LiDAR, panoramic cameras, and an IMU to create accurate, colored 3D point clouds in real time without the need for tripods or complex setups

- Captures up to 420,000 points per second for fast, detailed 3D scanning
- Uses GrandSLAM technology combining LiDAR SLAM, Visual SLAM, and IMU positioning
- Lightweight wireless design weighs approximately 1.7 lbs (775 g) with battery
- Creates fully colored 3D point clouds with integrated panoramic and high-resolution cameras
- Ideal for scanning buildings, stairwells, industrial sites, and complex indoor environments quickly and efficiently



## Leica BLK3D 3D Imager - In Picture 3D Measurement Solution.

The **Leica BLK3D** is an innovative handheld imaging device that combines photogrammetry, laser measurement, and stereo imaging technology into a compact, smartphone-like design. It allows users to capture images and extract accurate 3D measurements directly from photographs



- Captures precise 3D measurements directly from images using integrated stereo cameras
- Compact handheld design operates similarly to a smartphone for easy field use
- Measures distances up to 250 m with laser measurement accuracy up to  $\pm 1$  mm under favorable conditions
- Ideal for as-built documentation, floor plans, construction progress tracking, and reality capture workflows



# Leica Zeno FLX100 plus Data Collector



## Leica Zeno FLX100 plus with Tilt



### Precision from Every Angle

Compact, rugged and lightweight, the Leica Zeno FLX100 plus is the ultimate solution for professionals who demand precision and flexibility. Achieve up to 2 cm accuracy with ease-and experience unlimited tilt capability that lets you capture data from any angle without compromise.

Pair the FLX100 Plus with Leica Zeno Mobile One for a seamless workflow or connect with Leica Zeno Connect to unlock high-accuracy positioning in your favorite data collections apps across multiple operating systems. Wherever your work takes you, the FLX100 Plus delivers performance without limits.



### FLX100 plus GIS Data Collector

Achieve 2cm accuracy with a palm-sized, easy-to-operate GIS data collector that is compatible with iOS, Android, or Windows devices.

The FLX100 plus comes with a free trial of Zeno Mobile, our field app that is compatible with ArcGIS Online or ArcGIS Online Enterprise.

Prefer a different collector app? No problem, just run Zeno Connect to send data to the compatible app of your choice.

## Accessories:

- GLS30 Fiberglass Pole 752292
- Hand strap Tether 948729
- Tablet Bracket 8255867
- Pole Mount to attach to pole 915867
- Handheld Tray 915868
- Hard Carry Case 8255251
- CCP Warranties available



## Specifications:

|                                      |                                                                                                           |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Horizontal real-time accuracy        | RTK (Multi-frequency): 2cm + 1ppm*                                                                        |
| Vertical real-time accuracy          | RTK (Multi-frequency): 3cm + 1ppm*                                                                        |
| Post-processing accuracy static mode | Horizontal 2cm + 1ppm*<br>Vertical 3cm + 1ppm*                                                            |
| Satellite signal tracking            | GPS (L1 C/A, L2C), Glonass (L1OF, L2OF), BeiDou (B1I, B2I), Galileo (E1B/C, E5b), QZSS (L1C/A, L2C), SBAS |
| Number of channels                   | 184 channels                                                                                              |
| Battery                              | Internal 3.8V Approx 20 hours / 4 hours to full charge                                                    |





## CHCNAV X500 Professional Multirotor Drone



The **CHCNAV X500** is a versatile UAV designed for high-precision aerial mapping and surveying. Built with a rugged, weather-resistant design, it delivers reliable performance in demanding field conditions while capturing high-quality data for mapping, inspection, and surveying applications. Its efficient flight performance and advanced positioning technology help professionals collect accurate results quickly and safely.

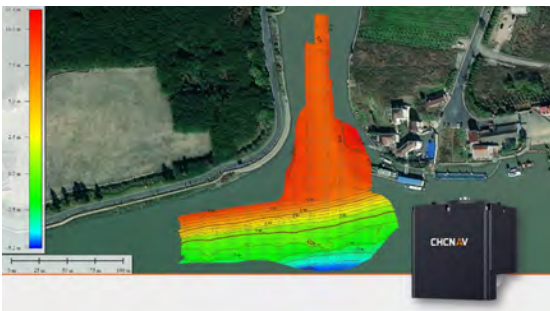
### Key Features

- Built for high-precision mapping and surveying workflows
- Rugged, weather-resistant design for reliable field operations
- Efficient flight performance for fast, accurate data collection



The **CHCNAV Apache Series** is a lineup of unmanned surface vessels (USVs) designed to make hydrographic and bathymetric surveying safer, faster, and more efficient. These autonomous marine platforms—such as the **Apache 3**, **Apache 4**, and **Apache 6** - allow surveyors to collect high-accuracy underwater data in lakes, rivers, coastal areas, and harbors without putting personnel on the water.

Equipped with advanced GNSS positioning and compatible with sensors like single-beam and multibeam echosounders or ADCP systems, the Apache series can autonomously follow survey routes while capturing precise depth, flow, and seabed information. This makes it a powerful solution for applications such as channel surveys, infrastructure inspections, dredging monitoring, and offshore construction support.



The **CHCNAV HQ-400 multibeam echosounder** is a compact and powerful system designed for high-resolution bathymetric and hydrographic surveys. It integrates sonar, temperature sensors, attitude sensors, positioning, and a compass into a single, lightweight unit.



CHCNAV Apache 3



CHCNAV Apache 4



CHCNAV Apache 6



# Inspired Flight Enterprise Drones



## IF800 Tomcat - Portable, Deployable, Dependable



The **Inspired Flight IF800 Tomcat** is a reliable and versatile drone specifically designed for professionals, featuring advanced capabilities for high-resolution aerial photogrammetry, precise surveying, search and rescue operations, and infrastructure inspection.

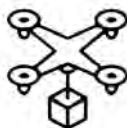
This American-made tool meets high-quality standards while enhancing operational efficiency and productivity. Its key applications span defense, mapping, utility inspection, and public safety, making it an invaluable asset for those looking to innovate and elevate their

organizational capabilities. Embrace the opportunities the F800 Tomcat offers to transform your field.



**54** min

Max flight Time



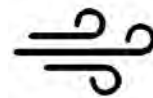
**6.6** lbs

Max Payload



**49** mph

Max Speed



**23** knots

Max Wind Resistance

**Inspired Flight Payloads** - Inspired Flight offers a range of integrated payloads tailored to meet the specific needs of each industry. By understanding the unique challenges of different sectors, we enhance operational efficiency and data collection. Our commitment to customization ensures that our solutions align with industry standards, elevating our clients' aerial operations in agriculture, construction, and surveillance.

### OPTICAL



Sony ILX-LR1



Sentra 65R

The Sony **ILX-LR1** Industrial Camera captures stunning 4K imagery with a lightweight design for easy drone or equipment mounting.

The **Sentra 65R** is an ultra-high resolution sensor engineered for seamless integration with drone and RTK systems.

### EO/IR



Gremsy VIO F1

The **Vio F1** series offers advanced lightweight EO/IR payload technology for industrial applications.

It features a 4K zoom sensor, a 640x512 radiometric thermal camera, and an integrated 2400m laser rangefinder, providing exceptional performance in a compact design.

### LiDAR



GeoCue TrueView 535

The **TrueView 535** upgrades the TrueView 515 with a third LiDAR beam for better vegetation detail and an extra nadir camera for clearer photogrammetry, improving data quality and accuracy.

Its extended LiDAR range provides greater versatility for surveying applications and other uses.



## GeoCue - The Leaders in LiDAR mapping hardware and software.

GeoCue's dual-purpose mobile mapping and drone LiDAR systems skillfully blend the strengths of both technologies, providing unparalleled effectiveness in capturing complex environments. This versatile sensor empowers professionals to seamlessly tackle a wide range of projects, whether it's capturing vast aerial perspectives over expansive terrains or gathering detailed ground-level data in confined urban spaces. The adaptability of this system allows for efficient data collection across varied landscapes, enabling users to optimize their workflows. By investing in just one multi-functional sensor, you not only maximize efficiency but also gain the flexibility to adapt to diverse project requirements with remarkable ease, ultimately enhancing the quality and accuracy of your data outputs.



## UAV LiDAR and photogrammetry data processing

With GeoCue's LP360 software, you can efficiently process, analyze, and optimize drone survey data, transforming it into valuable insights and deliverables. Whether the LiDAR data is collected airborne or terrestrially, 3D point clouds have emerged as a crucial component in mapping efforts. LP360, a sophisticated desktop LiDAR software solution, streamlines the process of extracting information and producing deliverables within an intuitive GIS environment.



- Intuitive workflow
- Multi-flight import and processing
- GIS interface allowing combination with other geospatial data
- Powerful point cloud visualization with multiple and synchronized windows



## GeoCue TrueView Sensors

### TrueView 535



The TrueView 535 enhances the popular TrueView 515 with an additional LiDAR beam return for better vegetation detail and three 26 MP cameras—two oblique and one nadir—for improved photogrammetry.

- LiDAR + Imagery
- Hesai XT32M2X
- 32/3 LiDAR Returns
- LiDAR Range - 120 m @ 20% reflectivity
- Precision: 5 mm / Accuracy: 20 mm
- Up to 640 kHz Pulse Repetition Rate

### TrueView 540



The TrueView 540 Sets a New Standard for Accuracy and Quality in the 500 Series, Making High-end LiDAR More Accessible Than Ever

- LiDAR + Imagery
- CHCNAV single beam laser scanner - 1535nm wavelength
- Up to 8 LiDAR Returns
- LiDAR Range - 400 m for targets > 20% reflectivity
- Precision: 5 mm / Accuracy: 15 mm
- Up to 500 kHz Pulse Repetition Rate
- 45 MP Global Shutter Full frame Camera



# High Definition Scanning / Enterprise Drones



## DJI Matrice 400 RTK **Engineered for Excellence**

**Max Flight Time:** **Longer** 59 Min  
**Max Speed:** **Faster** 55 MPH  
**Sensing System:** Forward, backward, upward, downward, left, right  
**Max Payload:** **Stronger** 6.0kg / 13lb.  
**Camera:** 1080p resolution  
**IP Rating:** IP55  
**Battery:** New Dual-Battery, hot swappable battery system



## DJI Matrice 30 Series

**Optimized for public safety**

**Sensor:** 1/2" CMOS Sensor  
**Max Flight Time:** 41 Min  
**Max Speed:** 51 MPH  
**Sensing System:** Upward, downward, backward, sideward  
**Max Transmission Distance:** 4.97 miles  
**Max Takeoff Weight:** Approx. 8.8lbs



## DJI Mavic 3 Enterprise

**Your Everyday Commercial Drone**

**Sensor:** 4/3 CMOS Mechanical Shutter (3E)  
1/2-inch CMOS, Effective pixels: 49 MP (3T)  
**Max Flight Time:** 45 min  
**Sensing System:** Forward, backward, upward, downward  
**Max Transmission Distance:** 10 km  
**Weight:** Approx. 1050 g / 2.31 lbs.

## WingtraOne GEN II

**A mapping drone for fast and accurate surveying data every time.**

### Efficient fixed-wing flight

Fly at 16 m/s (36 mph) for up to 59 minutes per flight for large coverage.

### 61 MP camera

WingtraOne can fly higher than drones limited to 20 MP cameras, so you capture more ground and more detail with every picture and a larger area per flight.

### No more GCPs, checkpoints only.

With an onboard high-precision PPK GNSS receiver you no longer need to lay out ground control points (GCPs). Use as few as three checkpoints to verify your map quality.



**Ready to fly in five minutes.  
Fully Autonomous.**



**Full-frame camera:** 61MP  
**Max Flight Time:** 59 Min  
**Max telemetry range:** 10km/6mi  
**Lowest GSD:** 0.28 in/px  
**Absolute HZ accuracy down to:** 0.4 in  
**Coverage at lowest GSD:** 270 ac  
**IP Rating:** IP68 Rated for water and dust resistance.

# Autel EVO II V3 Rugged Bundles



## EVO II Series V3

The new Autel EVO II series v3 drones have arrived. There are six new models with a full suite of accessories to keep your flying time productive. So you can Work Like Never Before.



### EVO II Pro 6K Rugged Bundle V3

102001513

**The leader in Picture Quality and Flight intelligence. Featuring a 1" sensor, 6K Ultra HD, a 20MP camera, and 360° obstacle avoidance.**

- 1x Aircraft: battery, propeller, gimbal cover, 32GB SD card
- 1x Remote Controller & lanyard
- 1x Spare Control Sticks (pair)
- 1x Spare Battery
- 1x spare Propeller (pair)
- 1x Battery Charger & Power Cable
- 1x RC Charger and Cable
- 1x Carrying Case



### EVO II Pro 6K RTK Rugged Bundle V3

102001519

**Capture Every Detail. An entirely new RTK module provides real-time centimeter level positioning data and supports PPK.**

- 1x Aircraft: battery, propeller, gimbal cover, 32GB SD card
- 1x Remote Controller & lanyard
- 1x Spare Control Sticks (pair)
- 2x Spare Battery
- 2x spare Propeller (pair)
- 1x Battery Charger & Power Cable
- 1x Multi-Charger
- 1x RC Charger, Cable and Case
- 1x Extended Port Cover
- 1x Carrying Case



40 min max flight Time | 9.3 mi HD Transmission | 16x Digital Zoom | Modular Accessories



### EVO II Dual 640T Rugged Bundle V3

102001512

**Equipped with a 640\*512 high-resolution thermal imaging camera featuring a 13mm focal length lens and 16x digital zoom, It is easy to observe distance target.**

- Aircraft (including battery, propellers, and gimbal cover)
- V3 7.9" Smart Controller (with controller case)
- Spare Propellers (pair)
- Smart Controller USB-C Charging Cable & Power Brick
- Battery Charger (Wall Cord and Power Converter)
- Spare Battery
- Spare Controller Sticks
- 32 GB SD Card
- Smart Controller Hanging Neck Strap
- Evo II Battery Car Charger
- Evo II Battery Multicharger



### EVO II Dual 640T RTK Rugged Bundle V3

102001517

**Dual Camera, Accurate Temperature Measurement. Equipped with a high-resolution thermal imaging camera and an all new Sony .8" 50 megapixel RYYB sensor.**

- 1x Aircraft: battery, propeller, gimbal cover, 32GB SD card
- 1x Remote Controller & lanyard
- 1x Spare Control Sticks (pair)
- 2x Spare Battery
- 2x spare Propeller (pair)
- 1x Battery Charger & Power Cable
- 1x Multi-Charger
- 1x RC Charger, Cable and Case
- 1x Extended Port Cover
- 1x Carrying Case



# Autel EVO II V3 Enterprise Bundles



## EVO II Enterprise Series V3



**EVO II Enterprise V3** integrates a superior imaging system, an upgraded 15km image transmission (SkyLink 2.0) and additional accessories in order to meet different aerial needs including inspection, search and rescue, law enforcement, fire fighting, and more. The foldable design empowers industry users with an efficient and portable aerial work tool.



**EVO II Pro 6K Enterprise Rugged Bundle V3**

102001515



**EVO II Dual 640T Enterprise Bundle V3**

102001516



### Benefits of the V3 Series Smart Controller/SE;

- 2000 Nit Super-Bright screen Controller
- 2K Ultra HD screen on Smart Controller
- 128 GB of data storage on Smart Controller
- Nearly 5 hours of battery life
- Fan-cooled for operation in high-heat environments

### Benefits of the V3 Series Aircraft: Thermal Models:

- Outline transparency control
- Radiometric
- Detail/Outline Enhancement

### Benefits of the V3 Series Aircraft

- 40 minutes of flight time
- 15 km/9.3 miles of range (clear LOS)
- 128GB internal storage
- Access to all constellations (V3 seeks satellites much faster in multi-path environments)
- Tri-Band signal (2.4, 5.8, 900MHz)
- Optimized for low light and clean zoom
- Radiometric Thermal (640T models)
- ISO 44,000 (Night mode)
- 360° Obstacle Avoidance
- Encrypted data transmission

### Mission Versatility

With an expanded selection of accessories at its disposal, the EVO II Enterprise V3 can evolve from a simple imaging tool to a multifunctional flight platform that can adapt to different scenarios.



#### Loudspeaker

Enables effective on-site communication through long-distance live broadcasts and prerecorded audio loops.



#### Spotlight

Beams a powerful, long-distance aerial light when searching or shoot-ing at night.



#### Strobe

Indicate the location of the aircraft at night to avoid air traffic accidents. Compliant with FAA regulations for night flying, visible over 3 Miles away.



#### RTK Module

(Optional)

Provides centimeter-accurate positioning data for mapping and reduces electromagnetic interference for flying near critical structures.



# Service and Rentals



## Explore our Rental Equipment



- **Construction Equipment:** Grade Lasers, Automatic Levels, Digital Levels, Pipe Lasers
- **Land Surveyors Equipment:** High-Definition Scanning (HDS), Total Stations, GPS, Data Collectors, Ground Penetrating Radar (GPR)
- **Tools & Accessories:** Tripods, Prisms, Prism Poles, Tribrachs and more.

[See More: Kukerranken.com/Rentals](https://www.kukerranken.com/Rentals)

## Get your project done without the long-term commitment!

- **Equipment Repairs**  
Kuker-Ranken provides expert repair services for surveying and construction equipment, ensuring optimal performance, quick turnaround, and reliable service.
- **Equipment Service**  
Kuker-Ranken delivers top maintenance for surveying and construction equipment, boosting performance and reducing downtime for smoother operations.
- **Equipment Updates**  
Kuker-Ranken updates your equipment's software and firmware for enhanced performance, new features, and security fixes.

Kuker-Ranken provides construction and surveying equipment rentals, high-quality tool sales, and repair services, offering expert advice and tailored solutions for the land surveying and construction sectors.

[See More: Kukerranken.com/Service](https://www.kukerranken.com/Service)

## Explore our Service Department



## Explore our Easy Financing



- **Speed and Ease.**  
Get the equipment you need on your terms. Apply in 60 Seconds
- **Preserve Cash Flow**  
Get the equipment and funding you need to grow while maintaining healthy cash reserves.
- **Maximize Tax Benefits**  
Leverage Section 179 to deduct the full cost of financed equipment and offset interest rates.



[See More: financing.approvepayments.com/kuker-ranken](https://financing.approvepayments.com/kuker-ranken)

Authorized Leica Service Center



[www.KukerRanken.com](https://www.kukerranken.com)

## Beginning and Continued Training

Build confidence in the field and in the office with our comprehensive training programs, designed to help you get the most out of your equipment and software. Whether you're just getting started or looking to sharpen advanced skills, we offer flexible **in-person classroom** and **online training** options tailored to your workflow.

Our expert-led sessions cover a full range of technologies, including drone operations, data processing, and survey-grade instrumentation. We provide hands-on, real-world instruction so you can apply what you learn immediately on the job.



## What We Train

We offer training across all major platforms and solutions we support, including:

- Drone hardware from DJI, Autel Robotics, CHCNAV, and Inspired Flight
- Drone mapping and processing software such as Leica Geosystems and Pix4D
- Survey equipment and workflows from Leica Geosystems
- Leica software platforms including Leica Infinity, Leica Captivate and more.

**We Train for Real World Work!**

## Classroom Training

Instructor-led sessions at our facilities or your location, featuring hands-on exercises, live demonstrations, and direct interaction with our experts.

## Onsite Training

We provide hands-on, in the field training that empowers our surveying customers to confidently use their equipment and master real world workflows

## Online Training

Convenient virtual classes that walk you step-by-step through workflows, with opportunities for Q&A, guided practice, and real-time support.

## Why Train With Us?

- Practical, workflow-focused instruction
- Experienced trainers with real-world and real-industry knowledge.
- Small class sizes for personalized attention. Or schedule a training just for your team.



**Get the skills you need to work smarter, faster, and with confidence—no matter the project.**

**Authorized Leica Service Center**



**[www.KukerRanken.com](http://www.KukerRanken.com)**



## **A Legacy of Expertise: Kuker-Ranken**

Behind every great instrument is a team that knows how to unlock its full potential. For over **90 years**, **Kuker-Ranken** has been that trusted partner — a leader in surveying, construction, and geospatial technology across the western United States.

From its early beginnings supplying transits and levels, Kuker-Ranken has evolved into a full-service Leica Geosystems distributor and technical support hub. Their success is rooted in a simple philosophy: pair world-class equipment with world-class knowledge.

“Technology is only as powerful as the people who use it,” Rob Mitchell explains. “At Kuker-Ranken, we don’t just sell instruments — we teach you how to make them work for your business. Our equipment and software is a perfect example of what happens when great engineering meets practical expertise.”

### **Seattle**

21601– 66th Ave. W. Unit A  
Mountlake Terrace, WA 98043  
Local 425-771-7776 | Toll Free 800-454-1310

### **Tacoma**

4905 Pacific Hwy East, Suite 1  
Fife, WA 98424  
Local 253-922-6087 | Toll Free 888-562-3082

### **Portland**

308 SE Taylor Street  
Portland, OR 97214  
Local 503-641-3388 | Toll Free 800-472-7007

### **Las Vegas**

5850 S. Polaris Ave., Suite 700  
Las, NV 89118  
Local 702-586-1152 | Toll Free 844-420-1687

### **Salt Lake City**

2712 S. 3600 W., Suite D  
Salt Lake City, UT 84119  
Local 801-878-9763 | Toll Free 844-702-7329

### **Boise**

4686 W. Chinden Blvd.  
Garden City, ID 83714  
Local 208-369-4388 | Toll Free 800-537-6848

### **St. George**

498 W. Telegraph Street #420  
Washington, UT 84780  
Local 801-878-9763 | Toll Free 844-702-7329

**Sales - Service - Rental - Training**  
**Technical Support - 425-953-2825**  
**[www.KukerRanken.com](http://www.KukerRanken.com)**