SCAN&GO System

SCAN&GO, A NEW METHOD FOR TOPOGRAPHIC SURVEY
BY LASER SCANNER COMBINED WITH GNSS RECEIVERS

The “Scan&Go” devices, installed on a vehicle are studied to obtain a three-dimensional centimeter definition of the single scan within one reference system.

The “Scan&Go” methodology was created to achieve faster and more effective use of the terrestrial Laser Scanner in the branch of the traditional survey and to allow a daily use of it even in classical topography.

The idea of Scan&Go was to create a topographical survey system that allows to obtain the georeferenced point cloud during the scan session, with a significative decrease of working time.

The benefits of Scan&Go system are:

- Increased measurement range of the scanner
- Significant reduction of survey time
- Easy movement between scan sessions without smounting the equipment
- Laser scanner perfectly leveled in any inclination position

Level-Plane 16

Before Leveling

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**GENERAL SALES TERMS**

Delivery terms: Ex-Works Modena – Italy
Level-Plane 16

Static multi-axis leveling platform with Radio or Bluetooth and cable control for 3D Laser Scanner or Robotic Total Stations

Level-Plane 16 is a static multi-axis platform created for automatic (non dynamic) leveling to ensure total verticality of the equipment with accuracy of +/- 30° (or +/-3” with manual control) in all vehicle inclination conditions.

The structure is made of anodized aluminum, externally with a PVC cover to protect the mechanical and electrical parts from severe weather conditions and dust, removable to ensure internal inspections - IP65.

The top is made of stainless steel, specially designed for topographic tribrach with standard 5/8”.

Powered by cable connection to the car-lighter-12 V - 5 A. (It’s also possible to use autonomous power source, with 12V battery available as accessory)

The Leveler is equipped with Radio controller, backlit display and keyboard, made of shockproof material resistant to dust and moisture - IP65.

The Radio Controller operation range is about 50 meters, it’s also possible a standard connection by cable.

The Radio and Bluetooth module complies to the standard regulation CE, FCC, IC and TELE.

Level-Plane 16 is studied for mounting on vehicle roof bars.

TECHNICAL DATA

- Accuracy with manual leveling: +/- 3”
- Accuracy with automatic leveling: +/- 30”
- Weight: 8 kg
- Maximum load: 25 kg
- External dimensions: 30x30xh 30 cm
- Power supply: 12V
- Maximum operating limit shooting ground slope along the longitudinal axis of the vehicle - AXIS Y: +/- 15°
- Maximum operating limit shooting ground slope along the perpendicular axis of the vehicle - AXIS X: +/- 22°

Temperature limit during the use of the equipment: - 15° C + 40° C
Storage temperature limit: - 30° C + 50° C

Level-Plane 16 Bluetooth

Part number LP16B (Bluetooth and Cable Control)

LEVEL-PLANE 16 Bluetooth
Static multi-axis leveling platform with Bluetooth and cable control for Laser Scanner or Robotic Total Stations.

Composed of

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Level-Plane 16 Bluetooth Module...
Level-Plane 16 RADIO

Part number **LP16R** (Radio and Cable Controller)

LEVEL-PLANE 16 RADIO
Static multi-axis leveling platform with radio and cable controller for Laser Scanner or Robotic Total Stations.

**Composed of**

- LP16R Level-Plane 16 Radio
- UCR16 LP16 Radio Controller
- CUC Cable for Controller UCR 16
- BUC Battery charger for Controller UCR16
- STA Roof bar brackets
- CPC Power Cable with connection to the car-lighter
- TRL Trilock - Topographic tribach
- BMT Soft bag for Level-Plane 16R
- BMA Soft Bag for accessories

- Temperature limit during the use of the equipment: -15° C + 40° C
- Storage temperature limit: -30° C + 50° C

Level-Plane 16 RADIO - ARCTIC version

Part number **LP16R-A** (Radio and Cable Controller)

LEVEL-PLANE 16 RADIO ARCTIC
Static multi-axis leveling platform with radio and cable controller for Laser Scanner or Robotic Total Stations for low/high temperatures

**Composed of**

- LP16R-A Level-Plane 16 Radio Arctic
- UCR16 LP16 Radio Controller
- CUC Cable for Controller UCR 16
- BUC Battery charger for Controller UCR16
- STA Roof bar brackets
- CPC Power Cable with connection to the car-lighter
- TRL Trilock - Topographic tribach
- BMT Soft bag for Level-Plane 16R Arctic
- BMA Soft Bag for accessories

Level-Plan 16 Radio Arctic is designed to be used at very low/high temperatures.

- Temperature limit during the use of the equipment: -40° C + 50° C
- Storage temperature limit: -50° C + 60° C
Scan&Go Drive SferaZERO is a “STOP & GO” system for topographic survey using 3D Laser Scanner combined with GNSS receivers

Scan&Go Drive can be installed on any type of vehicle. It was born from the necessity to make the use of 3D laser scanners more productive and performing during topographic activity and land surveys.

The Scan&Go DRIVE SferaZERO is composed of:
- 1 Level Plane 16 Radio, Automatic leveler (not dynamic)
- 1 Magnetic Level Bracket
- 1 Orientation target SferaZERO

(GNSS receivers and 3D Laser Scanner not included)

Simple configuration:
Install the 3D Laser Scanner with GNSS receiver on the top of the Level Plane 16 Radio.
Place another GNSS receiver with the target SferaZERO on the top of Magnetic Level Bracket for the orientation of the scanning.
While the Laser Scanner is scanning, the receivers get the measurements that will be elaborated later, and provide the geographical and local coordinates of the Laser Scanner and the target; this will allow the operator to obtain a tridimensional reference system with a topographic precision.

Benefits:
⇒ Higher laser scanner measuring range
⇒ Fast and easy mobility
⇒ Unnecessary common targets
⇒ Only one operator
⇒ Quicker surveying phase
⇒ Not relevant external environment
⇒ Reduced time of restitution of the scans
⇒ Excellent precision in positioning the scans
The “STOP & GO” system for topographic survey with Laser Scanner 3D and GNSS receivers includes:

- **Level-Plane 16 Radio**, a system planned for automatic leveling (not dynamic) to ensure total verticality of the equipment with an accuracy of +/- 30” (or +/- 3” with manual control) in all vehicle inclination conditions.

- **Magnetic level Bracket**, used for positioning of the SferaZERO (reference target)

- **SferaZERO**, Spherical reference target. The SferaZERO center coincides with the GNSS receiver phase center (or differs by a few millimeters)

(GNSS receiver not included)
Manual lifter of 1.00 mt height for vehicle roof

Level-Lift Box has been created in order to take advantage of the Level-Plane 16 in land, infrastructural, architectural and structural surveying.

It’s composed of compact lifting box with hydraulic system, aluminum frame and a handle for manual lifting.

By using Level-Lift Roof combined with Level-Plane 16 and raising the 3D Laser Scanner gripping point it’s possible to obtain:

- significant increase of measurement range
- decrease of the scan sessions number
- saving of surveying time
- improving measurement quality due to the increased verticality of the gripping point

### TECHNICAL DATA

- **Dimensions closed system**  
  45 x 35 x h. 40 cm
- **Dimensions opened system**  
  45 x 35 x h. 100 cm
- **Dimensions opened system with LP16R**  
  45 x 35 x h. 140 cm
- **Maximum load**  
  50 kg
- **Weight**  
  35 Kg
- **Temperature limit for use of the equipment**  
  -15°C to +40°C
- **Temperature limit for the storage of equipment**  
  -30°C to +50°C

Level-Lift Box can be used with any 3D Laser Scanner brands!
Part number **LLB**

**LEVEL-LIFT BOX**

*Composed of*

- **LLB**  Level-Lift Box
- **STA**  Roof bar brackets
- **FR**   Frame
- **HDL**  Handle for manual lifting

(LP16 not included)

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**Example:**

![Example Image](image-url)
Lifting extensible system for vehicle roof

Level-Lift Roof has been created in order to take advantage of the Level-Plane 16 in land, infrastructural, architectural and structural surveying.

It’s composed of 4 pneumatic extensible segments (max 3.00 m height), a support plate for Level-Plane 16 and a solid frame that allows mounting on the roof rack of any vehicle. The system is made from anodized aluminum.

Once the engine of the vehicle is off and the pole fully extended the system remains firm and stable during the scan session.

By using Level-Lift Roof combined with Level-Plane 16 and raising the 3D Laser Scanner gripping point it’s possible to obtain:

- significant increase of measurement range
- decrease of the scan sessions number
- saving of surveying time
- more detailed scans by cutting out balcony shadows, trays of windows and high parts, not visible from the ground
- improving measurement quality due to the increased verticality of the gripping point

Example:
LEVEL - LIFT ROOF STANDARD

**Composed of**
- LLR: Level-Lift Roof with Aluminium frame
- STA: Roof bar brackets
- RCC: LLR Cable Controller
- CLR: Connecting cable from LP16 to LLR
- CPC: Power Cable with connection to the car-lighter
- PCP: Support plate for LP16
- QBK: Quick Bracket
- BMA: Soft bag for accessories

(LP16R not included)

**TECHNICAL DATA**
- Dimensions closed system: 125 x 48 x h. 35 cm
- Extended pole height: 3,00 mt
- Extension: 4
- Maximum load: 45 kg
- Weight: 55 Kg
- Electrical engines: 2
- Integrated compressor: 
- Power supply: 12V 16A (maximum absorption load of the air compressor)
- Temperature limit for use of the equipment: -15° C + 40° C
- Temperature limit for the storage of equipment: -30° C + 50° C

LEVEL - LIFT ROOF LIGHT

**Composed of**
- LLR: Level-Lift Roof with Aluminium frame
- STA: Roof bar brackets
- RRC: LLR Radio Controller
- RCC: LLR Cable Controller
- CLR: Connecting cable from LP16 to LLR
- CPC: Power Cable with connection to the car-lighter
- PCP: Support plate for LP16
- QBK: Quick Bracket
- WBK: Wind bracing kit
- BMA: Soft bag for accessories

(LP16R not included)

**TECHNICAL DATA**
- Dimensions closed system: 115 x 40 x h. 30 cm
- Extended pole height: 2,50 mt
- Extension: 3
- Maximum load: 28 kg
- Weight: 38 Kg
- Electrical engines: 2
- Integrated compressor: 
- Power supply: 12V 16A (maximum absorption load of the air compressor)
- Temperature limit for use of the equipment: -15° C + 40° C
- Temperature limit for the storage of equipment: -30° C + 50° C
Kangur-Lift is a telescopic column made of anodized aluminum with pneumatic extensions by hand pump, complete with manual locks that allow to stop the column at the desired height, with maximum height of 6.00 meters.

The column is mounted on a cart with rubber wheels. Provided with adjustable feet combined with a spherical bubble to ensure the vertical position of the pole and a set of wind bracing ropes. Wind Bracing ropes keep firm the pole, evading any movement of it caused by sudden wind or passing cars.

Kangur-Lift is useful in inaccessible places for vehicles, when it is necessary to have scans at different heights, removing shadows and obstacles, for example:

- Building interiors
- Historical buildings, churches, museums, etc..
- Alleys and inner courtyards

Benefits:
- Safe use by a single operator
- Short setup and uninstall time (approximately 10 min)
- Easy movement among scanning stations
- Significant increase of the 3D Laser Scanner measuring range
- Small size, allows passages through doors.

Kangur-Lift combined with the Level Plane 16 permits scans perfectly leveled.

The Level Plane 16 on the top of Kangur-Lift system can automatically compensate the vertical alignment of the column.

**TECHNICAL DATA**

- Height closed column: 1,40 mt
- Maximum height opened column: 6,00 mt
- Extensions: 6
- Maximum load: 30 kg
- Dimensions closed column: 71 x 32 x h. 155 cm
- Weight: 37 Kg
- Power supply, external battery: 12V 12Ah

Kangur-Lift can be used with any 3D Laser Scanner brand!
KANGUR-LIFT SYSTEM
Lifting System for Level Plane 16, made up of telescopic column extensible by hand pump, up to mt 6.00

Composed of:
- KL60 Kangur-Lift
- KCV Wind bracing kit
- PFR-M Quick fastening bolt - 5/8” standard
- CCLB Connecting cable from LP16 to Battery
- EKB-NB Electric kit for connecting LP16R to battery
- BC Battery charger 12V-12Ah
- PCP Support plate for LP16R
- BMA Soft bag for accessories

(LP16 not included)
KangurGO is a telescopic column made of anodized aluminum with pneumatic extensions by hand pump, complete with mechanical block that allows to stop the column at the desired height, with maximum height of 3.50 meters (with LP16). The column is mounted on a cart with large rubber wheels. Wind Bracing ropes keep firm the pole, avoiding any movement of it caused by sudden wind or passing cars.

KangurGO is equipped with stabilizer wheels that ensure fast movements between the scan sessions without setting down or dismounting the laser scanner.

KangurGO is useful both for infrastructural and interior building surveys, when it is necessary to have scans at different heights, removing shadows and obstacles, for example:

- Historical building, churches, museums, etc..
- Alleys and inner courtyards
- Roads etc..

**Benefits:**
- Safe use by a single operator
- Short setup and uninstall time (approx. 10 min)
- Easy movement among scanning stations
- Increase of the 3D Laser Scanner measuring range
- Small size

**TECHNICAL DATA**

- Height closed column: 1.300 mt
- Maximum height opened column: 3.500 mt (with LP16R)
- Extensions: 3
- Maximum load: 30 kg
- Dimensions closed column: 71x32xh.144 cm
- Weight: 30 Kg
- Power supply, external battery for LP16R: 12V

KangurGO can be used with any 3D Laser Scanner brand!
KANGURGO
Lifting System for Level Plane 16, made up of pneumatic column extensible by hand pump, equipped with stabilizer wheels, up to mt 3.50 with LP16R.

Composed of

- KGO KangurGO with electric system
- KCV Wind bracing kit
- EBKG-NB Electric kit for connecting LP16 to battery (battery not included)
- BC Battery charger 12V-12Ah
- PCP Support plate for LP16
- SUC Support for LP16 controller
- BMA Soft bag for accessories

(LP16 not included)
UPLIFT is a telescopic lifter made of painted steel, with mechanical lifter composed of 2 extensions (+ 1 additional extension of 1 mt.). The maximum height is 2.20 mt., and reaches 3.20 mt with the additional element.

Easy to carry thanks to its small size and weight. Equipped with round plates fitted with rubber feet and braking wheels.

Useful in all inaccessible places when is necessary to have scans at different heights, removing shadows and obstacles, for example:
- Building interiors
- Historical buildings, churches, museums, etc..
- Alleys and inner courtyards

Benefits:
- Light and compact design
- Easy to use
- Short setup and uninstall time (approximately 10 min)
- Easy movement among scan stations
- Significant increase of the 3D Laser Scanner measuring range

### Technical data

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<th>Item</th>
<th>Specification</th>
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<td>Maximum height</td>
<td>220 cm</td>
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<tr>
<td>Maximum height with additional element</td>
<td>320 cm</td>
</tr>
<tr>
<td>Extensions</td>
<td>2 + 1 (additional element)</td>
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<tr>
<td>Base diameter</td>
<td>125 cm</td>
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<tr>
<td>Maximum load</td>
<td>55 kg</td>
</tr>
<tr>
<td>Closed dimensions</td>
<td>20 cm x 20 cm x h. 120 cm</td>
</tr>
<tr>
<td>Weight</td>
<td>9.5 Kg</td>
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</tbody>
</table>
Part number **UP22**

**UPLIFT**

Telescopic elevator with mechanical winch for 3D Laser Scanner, up to mt. 3.20

**Composed of:**
- UP22
- RPF: Round plates fitted with rubber feet
- RS: Equipment support
- BW: Braking wheels
- UP1E: Additional element of 1 mt
- BMTU: Transport bag
Steel Telescopic Lifter

UPLIFT500 is a telescopic lifter made of painted steel, with manual lifting composed of 4 sections, the laser scanner to be positioned at maximum height of 5,00 mt.

Combines stability with great sturdiness.

All metallic components (articulated parts, pressure knobs, leg braces, etc.) guarantee maximum durability and strength.

It is equipped with:
- double safety locking system by means of safety-bolt
- pressure knob
- heavy duty non-slip rubber feet
- Wind bracing kit

Useful in all inaccessible places when is necessary to have scans at different heights, removing shadows and obstacles, for example buildings, alleys and courtyards

Benefits:
- Easy to use
- Short setup and uninstall time (approximately 10 min)
- Easy movement among scanning stations
- Significant increase of the 3D Laser Scanner measuring range

Technical data
- Height when closed 178 cm
- Maximum Height 500 cm
- Basic diameter 170 cm
- Extension 4
- Maximum load 10 kg
- Weight 16 kg
- Dimension when closed 178x20x20 cm
UPLIFT500
Telescopic lifter made of painted steel, with manual lifting for 3D Laser Scanner, up to mt. 5.00, with braking wheels.
Possible to use with or without the wheels.

Composed of:
UP500       Uplift550
KCV         Wind bracing kit
BW          Braking wheels
BMA         Soft bag for accessories
## External Battery

**Part number EKB-NB**

**Electric kit for connecting LP16 to the battery (battery not included)**

**Composed of**
- CCLB: Connecting cable from LP16 to Battery
- EBT-NB: Electric kit for battery (battery not included) - Soft bag with fixing hook
- BC: Battery charger 12V-12Ah

Soft bag provided with hook for fixing to Kangur-Lift System, connecting power cable and battery charger with connecting cable.

## Trilock

**Part Number TRL**

**Trilock**

*Topographic tribach with blocked footscrews.*  
*Advised for using with LP16.*

Trilock has been realized to fix any type of Laser Scanner in a safe and perfectly leveled way, to the 5/8” thread of the upper plate, part of our leveler LEVEL-PLANE 16. In this way the leveling of the LP16 will be integral with the compensator of the equipment installed above.

## Magnetic Level Bracket

**Part number MLB**

**Magnetic Level Bracket**

*Magnetic bracket for positioning of the reference Target*

Magnetic level Bracket is equipped of adapter plate with 5/8” universal screw and three magnetic feet to adapt on the vehicle bonnet. The adjustable knobs enable the leveling even with strong inclination.
SferaZERO

Spherical reference target for SCAN&GO DRIVE

**Composed of**
- Adapter for GNSS receivers
- Spherical target made of plexiglass and polycarbonate
- Soft bag for transport

The SferaZERO center coincides with the GNSS receiver phase center.
(or differs by few millimeters)
Compatible with all GNSS receivers.

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BLK-GNSS Adapter

**Part number** **BLK-GNSS**

BLK and GNSS adapter
Support designed to surmount the Level-Plane 16 Radio with Leica BLK360 and GNSS receiver

**Composed of**
- Pole adapter for GNSS receivers
- Frame made of polycarbonate
- Adapter 3/8”

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QUICK BRACKET

**Part number** **QBK**

Quick Bracket
System for easy and safe installation of laser scanner on the Level-Lift Roof with Level-Plane 16

**Composed of**
- Plate for Laser Scanner
- Plate for Level-Plane 16

(LP16 not included)
Adapter for tribrach - 3/8"

Part number **ADP-T-38**

**ADAPTER FOR TRIBRACH - 3/8”**

Adapter to be used with tribrach or trilock, above screw 3/8” female

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Adapter for tribrach - 5/8"

Part number **ADP-T-58**

**ADAPTER FOR TRIBRACH - 5/8”**

Adapter to be used with tribrach or trilock, above screw 5/8” female

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Adapter 1/4”

Part number **ADP-14**

**ADAPTER - 1/4”**

Adapter to reduce the 5/8” attack to 1/4”

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Adapter 3/8”

Part number **ADP-38**

**ADAPTER - 3/8”**

Adapter to reduce the 5/8” attack to 3/8”
Wind Bracing Kit for Level Lift Roof

Part Number **WBK**

**WIND BRACING KIT**

Composed of:
- 4 Bracing cables
- 2 Coupling blocks on the vehicle roof bars
- 2 Eyebolts on the coupling plate
- 4 Coupling blocks on the Roof Frame

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Cover for Level Lift Roof

Part Number **CLLR**

**COVER FOR LEVEL LIFT ROOF**

Synthetic material protection from dust

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Aluminium Spacer

Part Number **SP**

**ALUMINIUM SPACER**

Aluminium spacer with attach 3/8" male for BLK360 and Faro laser scanner or pin for Leica RTC360

Price List **€ 300,00**
**Target Plate 20x20**

**Part number **TP16

**TARGET PLATE 20X20**

Reference target for 3D Laser Scanner, size 20cm x 20cm with support for GNSS receiver and 360° prisms.
- Under screw 5/8” female
- Above screw Leica pin

Including Leica pin adapter - 5/8” male

**TP16-S :** Target plate with black/white chessboard

**TP16-C :** Target plate with black/white circular target

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**Easy Target**

**Part number **ET-TG

**EASY TARGET**

Plastic reference target with 16x16cm chessboard.
360° vertical and horizontal rotation. Simple and versatile, with many options of use.

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**Part number **ET-KIT

**KIT EASY TARGET**

Easy target Kit, composed of n° 6 targets plus transport case.

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**Part number **ET-ID

**TARGET ID**

Useful for assigning an identification number to the Easy Target. Writeable with erasable markers.

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**Part number **ET-AM

**ADAPTOR WITH MAGNET**

Useful for an easy positioning of the Easy target on ferrous surfaces.
COAXIAL BRACKET
Support designed to surmount laser scanner Trimble TX5, Faro Focus 3D, Faro X, Faro S, Faro M with GNSS receiver or reflective prism at 360°.

Made following perfectly the shape of the instrument, the locking points are safe and non-invasive. This support allows the simultaneous measurement of the position of the gripping point of the scanner, together with the scan itself, avoiding subsequent classic topographic operations for the union of scans made in sequence. The low weight of the support and the equipment installed does not create any kind of mechanical or measuring problem during scans.

TECHNICAL DATA
- Maximum load: 10 Kg
- Adaptor: 5/8” male

Coaxial Bracket for FARO FOCUS 3D, FARO X serie, TRIMBLE TX5

Part number **CB-TFX**

COAXIAL BRACKET FOR FARO FOCUS 3D, FARO X SERIE AND TRIMBLE TX5
Support designed to surmount laser scanner Trimble TX5, Faro Focus 3D and Faro X, with GNSS receiver or reflective prism at 360°.

Coaxial Bracket for FARO S and FARO M serie

Part number **CB-SM**

COAXIAL BRACKET FOR FARO S AND FARO M SERIES
Support designed to surmount laser scanner Faro S and Faro M with GNSS receiver or reflective prism at 360°.
our Solutions and our Products can be customised for every request or need ...