

# **GPT-3500LN/LNW**

**REFLECTORLESS TOTAL STATION** 





## Extended Reflectorless Measurement Range up to 2,000M

- Class1 Safe Pulse Laser EDM
- Laser Pointer for Reflectorless Measurement and Layout
- Point Guide for Stakeout/Layout
- 24-Key Alphanumeric Keyboard
- Versatile Onboard Applications Including Road
- Rugged IP66 Dust and Water Protection



#### Powerful 2,000m Reflectorless EDM

A refinement of Topcon's advanced time-of-flight (pulse) EDM technology in the GPT-3500 allows measuring distances up to 2,000m (6,550 ft.) range without a reflector.

This wide range reflectorless capability enables quick and efficient measuring works in the large area. Also, it increases personal safety without approaching dangerous surface.



### Reflectorless Measuring for any targets

Powerful reflectorless measuring capability even for narrow object such as power line or tower frame of power line.

Also, it can measure low reflection target like road and ground surface, wood, coal, and any dark color materials.



### TopField / Road Software with Alphanumeric Keyboard

The onboard "TopField" and "Road" software dramatically increases efficiency in topo data collection, construction layout, as well as road stakeout tasks. The 24-key alphanumeric keyboard allows for quick inputting of point numbers, codes, attributes, and other necessary data.

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DISTANCE MEASUREMENT Prism Mode  Measuring Range*  Mini prism  1,000m  1 prism  3000m  Measurement Accuracy*  Fine: ±(2mm+2ppm×D)m.s.e.  Measuring Time  Non-Prism Mode (Diffusing Surface)  Measuring Range  1.5m to 250m  Measuring Range  Non-Prism Mode (Diffusing Surface)  Measuring Range  Non-Prism Long Mode (Diffusing Surface)  Measuring Range  Fine mode 1mm: Approx. 1.2 sec. (Initial 3 sec.)  Non-Prism Long Mode (Diffusing Surface)  Measuring Range  Sm to 2,000m  Measuring Range  Sm to 2,000m  Measuring Range  Fine 1mm: ±(10mm+10ppm×D)m.s.e.  Measuring Time  Fine mode 1mm: Approx. 1.5 to 4.5 sec. (Initial 6 to 8 sec.)  ANGLE MEASUREMENT  Minimum Reading  1"/5"(0.2/1mgon)  Accuracy*  2"(0.6mgon)  5"(1.5mgon)  DISPLAY  Display Unit  Graphics LCD 160 × 64 Dots with backlight  Keyboard  Alpha-Numeric key  TILT CORRECTION (AUTOMATIC INDEX)  Tilt Sensor  Dual axis  Compensating Range  ±3'  Level Sensitivity  Circular Level  10'/2mm  Plate Level  30"/2mm  OTHERS  Bluetooth modem*  Bluetooth Class 2 (GPT3503LNW/3505LNW type)  Laser Class  Class 1 (for distance measurement)  Class 2 (Lase Pointer on)  Instrument Height  176mm (6.93 in.)  Dimension  336(H)×184(W)×172(L)mm/13.2(H)×7.2(W)×6.8(L)in.  Weight (with battery)  5.3kg(11.6 lbs.)  Durability  Protection against water and dust  Ambient Temperature Range  -20°C to +50°C (-4°F to +122°F)  Battery  BT-G1W DC7.2V / 2,300 mAh (Ni-MH)  Operating time**	Model	GPT-3502LN/LNW	GPT-3505LN/LNW						
Measuring Range"  Mini prism 1,000m  1 prism 3000m  Measurement Accuracy" Fine: ±(2mm+2ppm×D)m.s.e.  Measuring Time Fine mode 1mm: Approx. 1.2 sec. (Initial 3 sec.)  Non-Prism Mode (Diffusing Surface)  Measuring Range 1.5m to 250m  Measuring Range 1.5m to 250m  Measuring Time Fine mode 1mm: Approx. 1.2 sec. (Initial 3 sec.)  Non-Prism Long Mode (Diffusing Surface)  Measuring Range 5m to 2,000m  Measuring Range 6m 5m to 2,000m  Measuring Time 7m 6m 6m 6m 1mm: Approx. 1.5 to 4.5 sec. (Initial 6 to 8 sec.)  NON-Prism Long Mode (Diffusing Surface)  Measuring Range 7m to 2,000m  Measuring Range 8m 5m to 2,000m  Measuring Time 8m 6m 6m 1mm: Approx. 1.5 to 4.5 sec. (Initial 6 to 8 sec.)  NGLE MEASUREMENT  Minimum Reading 1"/5"(0.2/1mgon)  Accuracy 2"(0.6mgon) 5"(1.5mgon)  DISPLAY  Display Unit 6raphics LCD 160 × 64 Dots with backlight Keyboard Alpha-Numeric key  TILT CORRECTION (AUTOMATIC INDEX)  TIL									
Mini prism   1,000m   3000m   Measurement Accuracy*2   Fine: ±(2mm+2ppm×D)m.s.e.   Measuring Time   Fine mode 1mm: Approx. 1.2 sec. (Initial 3 sec.)   Non-Prism Mode (Diffusing Surface)   Measuring Range   1.5m to 250m   Fine: ±(5mm)m.s.e.   Measuring Time   Fine mode 1mm: Approx. 1.2 sec. (Initial 3 sec.)   Non-Prism Long Mode (Diffusing Surface)   Measuring Time   Fine mode 1mm: Approx. 1.2 sec. (Initial 3 sec.)   Non-Prism Long Mode (Diffusing Surface)   Measuring Range   5m to 2,000m   Measuring Range   5m to 2,000m   Measuring Range   Fine 1mm: ±(10mm+10ppm×D)m.s.e.   Measuring Time   Fine mode 1mm: Approx. 1.5 to 4.5 sec. (Initial 6 to 8 sec.)   ANGLE MEASUREMENT   Minimum Reading   1"/5"(0.2/1mgon)   5"(1.5mgon)   DISPLAY   Display Unit   Graphics LCD 160 × 64 Dots with backlight   Keyboard   Alpha-Numeric key   TILT CORRECTION (AUTOMATIC INDEX)   Tilt Sensor   Dual axis   Compensating Range   ±3"   Level Sensitivity   Circular Level   10"/2mm   Plate Level   30"/2mm   OTHERS   Bluetooth modem*   Tild Compensation   Tild									
Mini prism   1,000m   3000m   Measurement Accuracy*2   Fine: ±(2mm+2ppm×D)m.s.e.   Measuring Time   Fine mode 1mm: Approx. 1.2 sec. (Initial 3 sec.)   Non-Prism Mode (Diffusing Surface)   Measuring Range   1.5m to 250m   Fine: ±(5mm)m.s.e.   Measuring Time   Fine mode 1mm: Approx. 1.2 sec. (Initial 3 sec.)   Non-Prism Long Mode (Diffusing Surface)   Measuring Time   Fine mode 1mm: Approx. 1.2 sec. (Initial 3 sec.)   Non-Prism Long Mode (Diffusing Surface)   Measuring Range   5m to 2,000m   Measuring Range   5m to 2,000m   Measuring Range   Fine 1mm: ±(10mm+10ppm×D)m.s.e.   Measuring Time   Fine mode 1mm: Approx. 1.5 to 4.5 sec. (Initial 6 to 8 sec.)   ANGLE MEASUREMENT   Minimum Reading   1"/5"(0.2/1mgon)   5"(1.5mgon)   DISPLAY   Display Unit   Graphics LCD 160 × 64 Dots with backlight   Keyboard   Alpha-Numeric key   TILT CORRECTION (AUTOMATIC INDEX)   Tilt Sensor   Dual axis   Compensating Range   ±3"   Level Sensitivity   Circular Level   10"/2mm   Plate Level   30"/2mm   OTHERS   Bluetooth modem*   Tild Compensation   Tild									
Measurement Accuracy Fine: ±(2mm+2ppm×D)m.s.e. Measuring Time Fine mode 1mm: Approx. 1.2 sec. (Initial 3 sec.)  Mon-Prism Mode (Diffusing Surface)  Measuring Range 1.5m to 250m  Measuring Range Fine: ±(5mm)m.s.e.  Measuring Time Fine mode 1mm: Approx. 1.2 sec. (Initial 3 sec.)  Non-Prism Long Mode (Diffusing Surface)  Measuring Range 5m to 2,000m  Measuring Range 5m to 2,000m  Measuring Raccuracy Fine Fine mode 1mm: Approx. 1.5 to 4.5 sec. (Initial 6 to 8 sec.)  Measuring Time Fine mode 1mm: Approx. 1.5 to 4.5 sec. (Initial 6 to 8 sec.)  ANGLE MEASUREMENT  Minimum Reading 1"/5"(0.2/1mgon)  Accuracy 2"(0.6mgon) 5"(1.5mgon)  DISPLAY  Display Unit Graphics LCD 160 × 64 Dots with backlight Keyboard Alpha-Numeric key  TILT CORRECTION (AUTOMATIC INDEX)  Tilt Sensor Dual axis  Compensating Range ±3'  Level Sensitivity  Circular Level 10'/2mm  Plate Level 30"/2mm  OTHERS  Bluetooth modem*6*7 Bluetooth Class 2 (GPT3503LNW/3505LNW type)  Laser Class Class 1 (for distance measurement) Class 2 (Laser Pointer on)  Instrument Height 176mm (6.93 in.)  Dimension 336(H)×184(W)×172(L)mm/13.2(H)×7.2(W)×6.8(L)in.  Weight (with battery) 5.3kg(11.6 lbs.)  Durability Protection against water and dust 1P66 (with BT- G1W) (Based on the standard IEC60529)  Ambient Temperature Range 8-20°C to +50°C (-4°F to +122°F)  Battery BT-GTW DC7.2V / 2,300 mAh (Ni-MH)  Operating time "9"		1,000m							
Measuring Time   Fine mode 1mm: Approx. 1.2 sec. (Initial 3 sec.)		3000m							
Measuring Time   Fine mode 1mm: Approx. 1.2 sec. (Initial 3 sec.)	Measurement Accuracy*2	Fine: ±(2mm+2ppm×D)m.s.e.							
Non-Prism Mode (Diffusing Surface)  Measuring Range  Measuring Time  Fine mode 1mm: Approx. 1.2 sec. (Initial 3 sec.)  Non-Prism Long Mode (Diffusing Surface)  Measuring Range  Measuring Range  Measuring Accuracy 1 Fine mode 1mm: Approx. 1.2 sec. (Initial 3 sec.)  Non-Prism Long Mode (Diffusing Surface)  Measuring Range  Measuring Accuracy 1 Fine 1mm: ±(10mm+10ppm×D)m.s.e.  Measuring Time  Fine mode 1mm: Approx. 1.5 to 4.5 sec. (Initial 6 to 8 sec.)  ANGLE MEASUREMENT  Minimum Reading  1"/5"(0.2/1mgon)  Accuracy 5 2"(0.6mgon)  5"(1.5mgon)  DISPLAY  Display Unit  Graphics LCD 160 × 64 Dots with backlight  Keyboard  Alpha-Numeric key  Tilt CORRECTION (AUTOMATIC INDEX)  Tilt Sensor  Compensating Range  10'/2mm  Display Level Sensitivity  Circular Level  10'/2mm  OTHERS  Bluetooth modem 10'/2mm  DISPLASE Level  30"/2mm  OTHERS  Bluetooth modem 10'/2 Bluetooth Class 2 (GPT3503LNW/3505LNW type)  Laser Class  Class 1 (for distance measurement)  Class 2 (Laser Pointer on)  Instrument Height  176mm (6.93 in.)  Dimension  336(H)×184(W)×172(L)mm/13.2(H)×7.2(W)×6.8(L)in.  Weight (with battery)  5.3kg(11.6 lbs.)  Durability  Protection against water and dust  1P66 (with BT-G1W) (Based on the standard IEC60529)  Ambient Temperature Range  -20°C to +50°C (-4°F to +122°F)  Battery  BT-G1W DC7.2V / 2,300 mAh (Ni-MH)  Operating time 10'/2 mAn (Ni-MH)		Fine mode 1mm: Approx. 1.2 sec. (Initial 3 sec.)							
Measuring Accuracy <sup>33</sup> Fine: ±(5mm)m.s.e.  Measuring Time Fine mode 1mm: Approx. 1.2 sec. (Initial 3 sec.)  Non-Prism Long Mode (Diffusing Surface)  Measuring Range 5m to 2,000m  Measuring Accuracy <sup>2-23-44</sup> Fine 1mm: ±(10mm+10ppm×D)m.s.e.  Measuring Time Fine mode 1mm: Approx. 1.5 to 4.5 sec. (Initial 6 to 8 sec.)  ANGLE MEASUREMENT  Minimum Reading 1"/5"(0.2/1mgon)  Accuracy <sup>53</sup> 2"(0.6mgon) 5"(1.5mgon)  DISPLAY  Display Unit Graphics LCD 160 × 64 Dots with backlight  Keyboard Alpha-Numeric key  TILT CORRECTION (AUTOMATIC INDEX)  Tilt Sensor Dual axis  Compensating Range ±3'  Level Sensitivity  Circular Level 10'/2mm  Plate Level 30"/2mm  OTHERS  Bluetooth modem <sup>46-77</sup> Bluetooth Class 2 (GPT3503LNW/3505LNW type)  Laser Class (Graphics Class 2 (Laser Pointer on)  Instrument Height 176mm (6.93 in.)  Dimension 336(H)×184(W)×172(L)mm/13.2(H)×7.2(W)×6.8(L)in.  Weight (with battery) 5.3kg(11.6 lbs.)  Durability  Protection against water and dust 1P66 (with BT- G1W) (Based on the standard IEC60529)  Ambient Temperature Range -20°C to +50°C (-4°F to +122°F)  Battery BT- G1W DC7.2V / 2,300 mAh (Ni-MH)  Operating time *6.50.									
Measuring Time Fine mode 1mm: Approx. 1.2 sec. (Initial 3 sec.)  Non-Prism Long Mode (Diffusing Surface)  Measuring Range 5m to 2,000m  Measuring Accuracy 2*3*4 Fine 1mm: ±(10mm+10ppm×D)m.s.e.  Measuring Time Fine mode 1mm: Approx. 1.5 to 4.5 sec. (Initial 6 to 8 sec.)  ANGLE MEASUREMENT  Minimum Reading 1"/5"(0.2/1mgon)  Accuracy 5* 2"(0.6mgon) 5"(1.5mgon)  DISPLAY  Display Unit Graphics LCD 160 × 64 Dots with backlight  Keyboard Alpha-Numeric key  TILT CORRECTION (AUTOMATIC INDEX)  Tilt Sensor Dual axis  Compensating Range ±3'  Level Sensitivity  Circular Level 10'/2mm  Plate Level 30"/2mm  OTHERS  Bluetooth modem *6*7* Bluetooth Class 2 (GPT3503LNW/3505LNW type)  Laser Class (Class 1 (for distance measurement) Class 2 (Laser Pointer on)  Instrument Height 176mm (6.93 in.)  Dimension 336(H)×184(W)×172(L)mm/13.2(H)×7.2(W)×6.8(L)in.  Weight (with battery) 5.3kg(11.6 lbs.)  Durability  Protection against water and dust 1P66 (with BT- G1W) (Based on the standard IEC60529)  Ambient Temperature Range -20°C to +50°C (-4°F to +122°F)  Battery BT- G1W DC7.2V / 2,300 mAh (Ni-MH)  Operating time *6**	Measuring Range	1.5m to 250m							
Non-Prism Long Mode (Diffusing Surface)  Measuring Range  Measuring Accuracy*2**3*4  Fine 1mm: ±(10mm+10ppm×D)m.s.e.  Measuring Time  Fine mode 1mm: Approx. 1.5 to 4.5 sec. (Initial 6 to 8 sec.)  ANGLE MEASUREMENT  Minimum Reading  Accuracy*3  2"(0.6mgon)  DISPLAY  Display Unit  Graphics LCD 160 × 64 Dots with backlight  Keyboard  Alpha-Numeric key  TILT CORRECTION (AUTOMATIC INDEX)  Tilt Sensor  Compensating Range  10'/2mm  Plate Level  10'/2mm  Plate Level  30"/2mm  OTHERS  Bluetooth modem*6*7  Bluetooth Class 2 (GPT3503LNW/3505LNW type)  Laser Class  Class 1 (for distance measurement)  Class 2 (Laser Pointer on)  Instrument Height  Dimension  336(H)×184(W)×172(L)mm/13.2(H)×7.2(W)×6.8(L)in.  Weight (with battery)  Durability  Protection against water and dust  Ambient Temperature Range  -20°C to +50°C (-4°F to +122°F)  Battery  BT- G1W DC7.2V / 2,300 mAh (Ni-MH)  Operating time**	Measuring Accuracy*3	Fine: ±(5mm)m.s.e.							
Measuring Range  Measuring Accuracy*2**3**4  Fine 1mm: ±(10mm+10ppm×D)m.s.e.  Measuring Time  Fine mode 1mm: Approx. 1.5 to 4.5 sec. (Initial 6 to 8 sec.)  ANGLE MEASUREMENT  Minimum Reading  Accuracy*3  2"(0.6mgon)  DISPLAY  Display Unit  Graphics LCD 160 × 64 Dots with backlight  Keyboard  Alpha-Numeric key  TILT CORRECTION (AUTOMATIC INDEX)  Tilt Sensor  Dual axis  Compensating Range  ±3'  Level Sensitivity  Circular Level  10'/2mm  Plate Level  30"/2mm  OTHERS  Bluetooth modem*6*7'  Bluetooth Class 2 (GPT3503LNW/3505LNW type)  Laser Class  Class 1 (for distance measurement)  Class 2 (Laser Pointer on)  Instrument Height  Dimension  336(H)×184(W)×172(L)mm/13.2(H)×7.2(W)×6.8(L)in.  Weight (with battery)  Durability  Protection against water and dust  Ambient Temperature Range  -20°C to +50°C (-4°F to +122°F)  Battery  BT- G1W DC7.2V / 2,300 mAh (Ni-MH)  Operating time*	Measuring Time	Fine mode 1mm: Approx. 1.2 sec. (Initial 3 sec.)							
Measuring Accuracy** Fine 1mm: ±(10mm+10ppm×D)m.s.e.  Measuring Time Fine mode 1mm: Approx. 1.5 to 4.5 sec. (Initial 6 to 8 sec.)  ANGLE MEASUREMENT  Minimum Reading 1"/5"(0.2/1mgon)  Accuracy** 2"(0.6mgon) 5"(1.5mgon)  DISPLAY  Display Unit Graphics LCD 160 × 64 Dots with backlight  Keyboard Alpha-Numeric key  TILT CORRECTION (AUTOMATIC INDEX)  Tilt Sensor Dual axis  Compensating Range ±3'  Level Sensitivity  Circular Level 10'/2mm  Plate Level 30"/2mm  OTHERS  Bluetooth modem*6*7 Bluetooth Class 2 (GPT3503LNW/3505LNW type)  Laser Class (Class 1 (for distance measurement) Class 2 (Laser Pointer on)  Instrument Height 176mm (6.93 in.)  Dimension 336(H)×184(W)×172(L)mm/13.2(H)×7.2(W)×6.8(L)in.  Weight (with battery) 5.3kg(11.6 lbs.)  Durability  Protection against water and dust IP66 (with BT- G1W) (Based on the standard IEC60529)  Ambient Temperature Range -20°C to +50°C (-4°F to +122°F)  Battery BT- G1W DC7.2V / 2,300 mAh (Ni-MH)  Operating time**									
Measuring Time Fine mode 1mm: Approx. 1.5 to 4.5 sec. (Initial 6 to 8 sec.)  ANGLE MEASUREMENT  Minimum Reading  Accuracy**5  2"(0.6mgon)  DISPLAY  Display Unit  Keyboard  TILT CORRECTION (AUTOMATIC INDEX)  Tilt Sensor  Compensating Range  Level Sensitivity  Circular Level  Plate Level  10'/2mm  Plate Level  30"/2mm  OTHERS  Bluetooth modem**6*7  Bluetooth Class 2 (GPT3503LNW/3505LNW type)  Laser Class  Class 1 (for distance measurement)  Class 2 (Laser Pointer on)  Instrument Height  176mm (6.93 in.)  Dimension  336(H)×184(W)×172(L)mm/13.2(H)×7.2(W)×6.8(L)in.  Weight (with battery)  Durability  Protection against water and dust  Ambient Temperature Range  -20°C to +50°C (-4°F to +122°F)  Battery  BT- G1W DC7.2V / 2,300 mAh (Ni-MH)  Operating time **9*		5m to 2,000m							
ANGLE MEASUREMENT  Minimum Reading  Accuracy**5  2"(0.6mgon)  5"(1.5mgon)  DISPLAY  Display Unit  Keyboard  TILT CORRECTION (AUTOMATIC INDEX)  Tilt Sensor  Compensating Range  Level Sensitivity  Circular Level  Plate Level  10'/2mm  Plate Level  30"/2mm  OTHERS  Bluetooth modem*6*7  Bluetooth Class 2 (GPT3503LNW/3505LNW type)  Laser Class  Class 1 (for distance measurement)  Class 2 (Laser Pointer on)  Instrument Height  176mm (6.93 in.)  Dimension  336(H)×184(W)×172(L)mm/13.2(H)×7.2(W)×6.8(L)in.  Weight (with battery)  Durability  Protection against water and dust  Ambient Temperature Range  -20°C to +50°C (-4°F to +122°F)  Battery  BT- G1W DC7.2V / 2,300 mAh (Ni-MH)  Operating time**	Measuring Accuracy*2 *3 *4	Fine 1mm: ±(10mr	n+10ppm×D)m.s.e.						
Minimum Reading 1"/5"(0.2/1mgon)  Accuracy*5 2"(0.6mgon) 5"(1.5mgon)  DISPLAY  Display Unit Graphics LCD 160 × 64 Dots with backlight  Keyboard Alpha-Numeric key  TILT CORRECTION (AUTOMATIC INDEX)  Tilt Sensor Dual axis  Compensating Range ±3'  Level Sensitivity  Circular Level 10'/2mm  Plate Level 30"/2mm  OTHERS  Bluetooth modem*6*7 Bluetooth Class 2 (GPT3503LNW/3505LNW type)  Laser Class Class Claser Pointer on)  Instrument Height 176mm (6.93 in.)  Dimension 336(H)×184(W)×172(L)mm/13.2(H)×7.2(W)×6.8(L)in.  Weight (with battery) 5.3kg(11.6 lbs.)  Durability  Protection against water and dust IP66 (with BT- G1W) (Based on the standard IEC60529)  Ambient Temperature Range -20°C to +50°C (-4°F to +122°F)  Battery BT- G1W DC7.2V / 2,300 mAh (Ni-MH)  Operating time **6**9**	Measuring Time	Fine mode 1mm: Approx. 1.5	to 4.5 sec. (Initial 6 to 8 sec.)						
Accuracy*5 2"(0.6mgon) 5"(1.5mgon)  DISPLAY  Display Unit Graphics LCD 160 × 64 Dots with backlight  Keyboard Alpha-Numeric key  TILT CORRECTION (AUTOMATIC INDEX)  Tilt Sensor Dual axis  Compensating Range ±3'  Level Sensitivity  Circular Level 10'/2mm  Plate Level 30"/2mm  OTHERS  Bluetooth modem*6*7 Bluetooth Class 2 (GPT3503LNW/3505LNW type)  Laser Class Class (If or distance measurement)  Class 2 (Laser Pointer on)  Instrument Height 176mm (6.93 in.)  Dimension 336(H)×184(W)×172(L)mm/13.2(H)×7.2(W)×6.8(L)in.  Weight (with battery) 5.3kg(11.6 lbs.)  Durability  Protection against water and dust IP66 (with BT- G1W) (Based on the standard IEC60529)  Ambient Temperature Range -20°C to +50°C (-4°F to +122°F)  Battery BT- G1W DC7.2V / 2,300 mAh (Ni-MH)  Operating time **6**9**	ANGLE MEASUREMENT								
DISPLAY Display Unit  Keyboard  Alpha-Numeric key  TILT CORRECTION (AUTOMATIC INDEX)  Tilt Sensor  Compensating Range  Level Sensitivity  Circular Level  Plate Level  THERS  Bluetooth modem 6 7 Bluetooth Class 2 (GPT3503LNW/3505LNW type)  Laser Class  Class 1 (for distance measurement)  Class 2 (Laser Pointer on)  Instrument Height  Tr6mm (6.93 in.)  Dimension  336(H)×184(W)×172(L)mm/13.2(H)×7.2(W)×6.8(L)in.  Weight (with battery)  Durability  Protection against water and dust  Ambient Temperature Range  -20°C to +50°C (-4°F to +122°F)  Battery  BT- G1W DC7.2V / 2,300 mAh (Ni-MH)  Operating time 78 79	Minimum Reading	1"/5"(0.2	2/1mgon)						
Display Unit  Keyboard  Alpha-Numeric key  TILT CORRECTION (AUTOMATIC INDEX)  Tilt Sensor  Dual axis  Compensating Range  ±3'  Level Sensitivity  Circular Level  Plate Level  30"/2mm  OTHERS  Bluetooth modem*6*7  Bluetooth Class 2 (GPT3503LNW/3505LNW type)  Laser Class  Class 1 (for distance measurement)  Class 2 (Laser Pointer on)  Instrument Height  176mm (6.93 in.)  Dimension  336(H)×184(W)×172(L)mm/13.2(H)×7.2(W)×6.8(L)in.  Weight (with battery)  5.3kg(11.6 lbs.)  Durability  Protection against water and dust  IP66 (with BT- G1W) (Based on the standard IEC60529)  Ambient Temperature Range  -20°C to +50°C (-4°F to +122°F)  Battery  BT- G1W DC7.2V / 2,300 mAh (Ni-MH)  Operating time *8*9*	Accuracy*5	2"(0.6mgon)	5"(1.5mgon)						
Keyboard Alpha-Numeric key  TILT CORRECTION (AUTOMATIC INDEX)  Tilt Sensor Dual axis  Compensating Range ±3'  Level Sensitivity  Circular Level 10' /2mm  Plate Level 30" /2mm  OTHERS  Bluetooth modem*6*7 Bluetooth Class 2 (GPT3503LNW/3505LNW type)  Laser Class Class (If or distance measurement) Class 2 (Laser Pointer on)  Instrument Height 176mm (6.93 in.)  Dimension 336(H)×184(W)×172(L)mm/13.2(H)×7.2(W)×6.8(L)in.  Weight (with battery) 5.3kg(11.6 lbs.)  Durability  Protection against water and dust IP66 (with BT- G1W) (Based on the standard IEC60529)  Ambient Temperature Range -20°C to +50°C (-4°F to +122°F)  Battery BT- G1W DC7.2V / 2,300 mAh (Ni-MH)  Operating time *8*9*	DISPLAY								
TilT CORRECTION (AUTOMATIC INDEX)  Tilt Sensor  Dual axis  Compensating Range  ±3'  Level Sensitivity  Circular Level  Plate Level  30"/2mm  OTHERS  Bluetooth modem*6*7  Bluetooth Class 2 (GPT3503LNW/3505LNW type)  Laser Class  Class 1 (for distance measurement)  Class 2 (Laser Pointer on)  Instrument Height  176mm (6.93 in.)  Dimension  336(H)×184(W)×172(L)mm/13.2(H)×7.2(W)×6.8(L)in.  Weight (with battery)  5.3kg(11.6 lbs.)  Durability  Protection against water and dust  IP66 (with BT- G1W) (Based on the standard IEC60529)  Ambient Temperature Range  -20°C to +50°C (-4°F to +122°F)  Battery  BT- G1W DC7.2V / 2,300 mAh (Ni-MH)  Operating time *8*9*	Display Unit	Graphics LCD 160 × 64 Dots with backlight							
Tilt Sensor  Compensating Range  Level Sensitivity  Circular Level  Plate Level  10' /2mm  Plate Level  30" /2mm  OTHERS  Bluetooth modem 6 7 Bluetooth Class 2 (GPT3503LNW/3505LNW type)  Laser Class  Class 1 (for distance measurement)  Class 2 (Laser Pointer on)  Instrument Height  176mm (6.93 in.)  Dimension  336(H)×184(W)×172(L)mm/13.2(H)×7.2(W)×6.8(L)in.  Weight (with battery)  5.3kg(11.6 lbs.)  Durability  Protection against water and dust  IP66 (with BT- G1W) (Based on the standard IEC60529)  Ambient Temperature Range  -20°C to +50°C (-4°F to +122°F)  Battery  BT- G1W DC7.2V / 2,300 mAh (Ni-MH)  Operating time 78 79	Keyboard	Alpha-Numeric key							
Compensating Range  Level Sensitivity  Circular Level  Plate Level  30" /2mm  OTHERS  Bluetooth modem*6*7  Bluetooth Class 2 (GPT3503LNW/3505LNW type)  Laser Class  Class 1 (for distance measurement) Class 2 (Laser Pointer on)  Instrument Height  176mm (6.93 in.)  Dimension  336(H)×184(W)×172(L)mm/13.2(H)×7.2(W)×6.8(L)in.  Weight (with battery)  5.3kg(11.6 lbs.)  Durability  Protection against water and dust  IP66 (with BT- G1W) (Based on the standard IEC60529)  Ambient Temperature Range  -20°C to +50°C (-4°F to +122°F)  Battery  BT- G1W DC7.2V / 2,300 mAh (Ni-MH)  Operating time *8*9*	TILT CORRECTION (AUTOMATIC INDEX)								
Level Sensitivity  Circular Level 10' / 2mm  Plate Level 30" / 2mm  OTHERS  Bluetooth modem*6*7 Bluetooth Class 2 (GPT3503LNW/3505LNW type)  Laser Class Class 1 (for distance measurement) Class 2 (Laser Pointer on)  Instrument Height 176mm (6.93 in.)  Dimension 336(H)×184(W)×172(L)mm/13.2(H)×7.2(W)×6.8(L)in.  Weight (with battery) 5.3kg(11.6 lbs.)  Durability  Protection against water and dust IP66 (with BT- G1W) (Based on the standard IEC60529)  Ambient Temperature Range -20°C to +50°C (-4°F to +122°F)  Battery BT- G1W DC7.2V / 2,300 mAh (Ni-MH)  Operating time **8**9	Tilt Sensor	Dual axis							
Circular Level 10' / 2mm  Plate Level 30" / 2mm  OTHERS  Bluetooth modem"6"7 Bluetooth Class 2 (GPT3503LNW/3505LNW type)  Laser Class Class 1 (for distance measurement) Class 2 (Laser Pointer on)  Instrument Height 176mm (6.93 in.)  Dimension 336(H)×184(W)×172(L)mm/13.2(H)×7.2(W)×6.8(L)in.  Weight (with battery) 5.3kg(11.6 lbs.)  Durability  Protection against water and dust 1P66 (with BT- G1W) (Based on the standard IEC60529)  Ambient Temperature Range -20°C to +50°C (-4°F to +122°F)  Battery BT- G1W DC7.2V / 2,300 mAh (Ni-MH)  Operating time "8"9	Compensating Range	±3′							
Plate Level 30" / 2mm  OTHERS  Bluetooth modem*6*7 Bluetooth Class 2 (GPT3503LNW/3505LNW type)  Laser Class 1 (for distance measurement) Class 2 (Laser Pointer on)  Instrument Height 176mm (6.93 in.)  Dimension 336(H)×184(W)×172(L)mm/13.2(H)×7.2(W)×6.8(L)in.  Weight (with battery) 5.3kg(11.6 lbs.)  Durability  Protection against water and dust IP66 (with BT- G1W) (Based on the standard IEC60529)  Ambient Temperature Range -20°C to +50°C (-4°F to +122°F)  Battery BT- G1W DC7.2V / 2,300 mAh (Ni-MH)  Operating time *8*9*	Level Sensitivity								
DTHERS  Bluetooth modem 6 77  Bluetooth Class 2 (GPT3503LNW/3505LNW type)  Laser Class  Class 1 (for distance measurement) Class 2 (Laser Pointer on)  Instrument Height  176mm (6.93 in.)  Dimension  336(H)×184(W)×172(L)mm/13.2(H)×7.2(W)×6.8(L)in.  Weight (with battery)  5.3kg(11.6 lbs.)  Durability  Protection against water and dust  IP66 (with BT- G1W) (Based on the standard IEC60529)  Ambient Temperature Range  -20°C to +50°C (-4°F to +122°F)  Battery  BT- G1W DC7.2V / 2,300 mAh (Ni-MH)  Operating time 78 79	Circular Level	10' /2mm							
Bluetooth modem 16 17 Bluetooth Class 2 (GPT3503LNW/3505LNW type)  Laser Class Class 1 (for distance measurement) Class 2 (Laser Pointer on)  Instrument Height 176mm (6.93 in.)  Dimension 336(H)×184(W)×172(L)mm/13.2(H)×7.2(W)×6.8(L)in.  Weight (with battery) 5.3kg(11.6 lbs.)  Durability  Protection against water and dust IP66 (with BT- G1W) (Based on the standard IEC60529)  Ambient Temperature Range -20°C to +50°C (-4°F to +122°F)  Battery BT- G1W DC7.2V / 2,300 mAh (Ni-MH)  Operating time 18 19	Plate Level	30" /2mm							
Laser Class  Class 1 (for distance measurement) Class 2 (Laser Pointer on)  Instrument Height  176mm (6.93 in.)  Dimension  336(H)×184(W)×172(L)mm/13.2(H)×7.2(W)×6.8(L)in.  Weight (with battery)  5.3kg(11.6 lbs.)  Durability  Protection against water and dust  IP66 (with BT- G1W) (Based on the standard IEC60529)  Ambient Temperature Range  -20°C to +50°C (-4°F to +122°F)  Battery  BT- G1W DC7.2V / 2,300 mAh (Ni-MH)  Operating time *8*9									
Class 2 (Laser Pointer on)  Instrument Height 176mm (6.93 in.)  Dimension 336(H)×184(W)×172(L)mm/13.2(H)×7.2(W)×6.8(L)in.  Weight (with battery) 5.3kg(11.6 lbs.)  Durability  Protection against water and dust IP66 (with BT- G1W) (Based on the standard IEC60529)  Ambient Temperature Range -20°C to +50°C (-4°F to +122°F)  Battery BT- G1W DC7.2V / 2,300 mAh (Ni-MH)  Operating time *6**9	Bluetooth modem*6 *7								
Dimension 336(H)×184(W)×172(L)mm/13.2(H)×7.2(W)×6.8(L)in.  Weight (with battery) 5.3kg(11.6 lbs.)  Durability  Protection against water and dust IP66 (with BT- G1W) (Based on the standard IEC60529)  Ambient Temperature Range -20°C to +50°C (-4°F to +122°F)  Battery BT- G1W DC7.2V / 2,300 mAh (Ni-MH)  Operating time "8"9	Laser Class								
Weight (with battery)  Durability  Protection against water and dust  Ambient Temperature Range  Battery  BT- G1W DC7.2V / 2,300 mAh (Ni-MH)  Operating time "8"9	Instrument Height	176mm (6.93 in.)							
Durability  Protection against water and dust  Ambient Temperature Range  Protection against water and dust  IP66 (with BT- G1W) (Based on the standard IEC60529)  -20°C to +50°C (-4°F to +122°F)  Battery  BT- G1W DC7.2V / 2,300 mAh (Ni-MH)  Operating time *8 *9	Dimension								
Protection against water and dust IP66 (with BT- G1W) (Based on the standard IEC60529)  Ambient Temperature Range -20°C to +50°C (-4°F to +122°F)  Battery BT- G1W DC7.2V / 2,300 mAh (Ni-MH)  Operating time *8*9	Weight (with battery)	5.3kg(11.6 lbs.)							
Ambient Temperature Range -20°C to +50°C (-4°F to +122°F)  Battery BT- G1W DC7.2V / 2,300 mAh (Ni-MH)  Operating time *8 *9	Durability								
Battery BT- G1W DC7.2V / 2,300 mAh (Ni-MH) Operating time *8*9	<u> </u>								
Operating time *8*9	Ambient Temperature Range								
Operating time **9 Including EDM measurement *10 Approximately 8 hours		BT- G1W DC7.2V / 2,300 mAh (Ni-MH)							
Including EDM measurement *10 Approximately 8 hours	Operating time *8 *9								
111000000100000	Including EDM measurement *10	Approxima	tely 8 hours						
Angle measurement only 38 hours	Angle measurement only	38 hours							

\*1 Condition: Slight haze with visibility about 20km (12.5 miles) moderate sunlight with light heat shimmer. \*2 D: Measuring Distance \*3 Kodak Gray Card White Surface (90%) \*4 <500m \*5 Standard deviation based on DIN18723 \*6 No obstacles, few vehicles or sources of radio emissions/interference in the near vicinity of the instrument, no rain. \*7 Ver.2.1+EDR, Operating range: about 5m(16ft.) \*8 Battery using time will vary depending on environmental conditions and operations done with GPT-3500series. \*9 Without using Bluetooth. \*10 Fine single measurement = every 30sec, EDM OFF TIME = 0



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