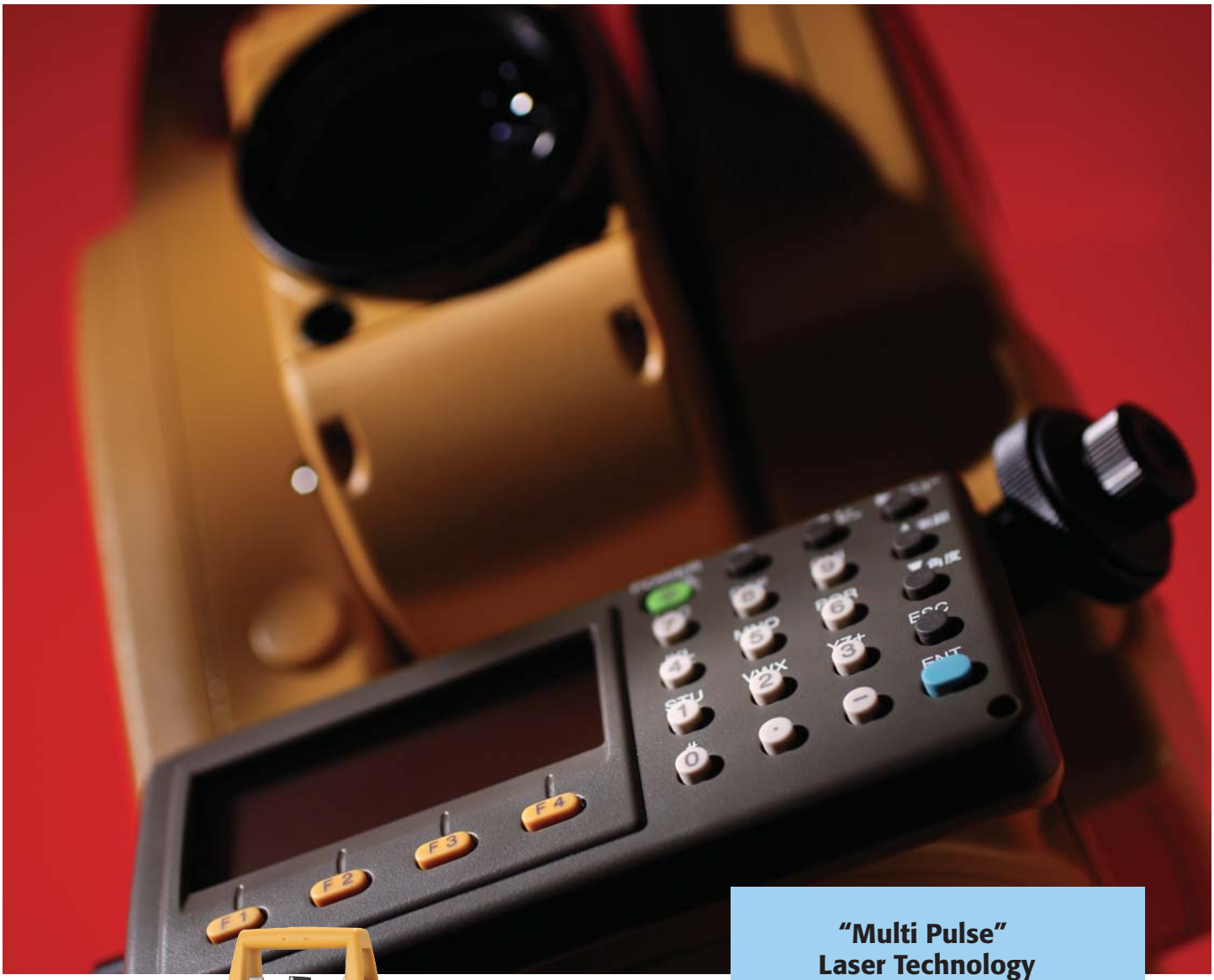
TOPCON

GPT-3100N series

REFLECTORLESS TOTAL STATION



**"Multi Pulse"
Laser Technology**

- *Reflectorless distance measurement up to 350M*
- *Low power consumption*
- *Small diameter pin-point measurement*
- *Point guide*
- *Laser pointer*
- *Water and dust protection IP66*
- *Versatile applications including Road*

TOPCON

New Reflectorless distance measurement technology "Multi Pulse"

Topcon's unique optical technology "Multi Pulse" enhanced the productivity

Reflectorless distance measurement up to 350M

GPT-3100N achieved Reflectorless distance measurement up to 350M, 140% improvement against previous model (250M)

Significant saving of power consumption

Multi Pulse optical system contributed to power consumption cut down from 4.7W to 3.6W (±20% down), but extended operating time to 5 hours (+120%)

It's time.

TOPCON CORPORATION

75-1 Hasunuma-cho, Itabashi-ku, Tokyo 174-8580, Japan
Phone: (+81)3-3558-2527/2521 Fax: (+81)3-3960-4214
www.topcon.co.jp

LASER RADIATION
DO NOT STARE INTO BEAM
Maximum output 1mW Wave length 690nm
CLASS 2 LASER PRODUCT

Specifications

	GPT-3102N	GPT-3103N	GPT-3105N	GPT-3107N
TELESCOPE				
Length	150mm			
Objective Lens Dia.	45mm (EDM 50mm)			
Magnification	30×			
Image	Erect			
Field of View	1°30′			
Resolving Power	2.8″			
Min. Focus Distance	1.3m (4.9 ft.)			
DISTANCE MEASUREMENT				
Prism Mode				
Measuring Range				
Mini prism	1,000m*			
1 prism	3,000m*/4,000m**			
3 prisms	4,000m*/5,300m**			
9 prisms	5,000m*/6,500m**			
* Condition 1: Slight haze with visibility about 20km (12.5 miles) moderate sunlight with light heat shimmer.				
** Condition 2: No haze with visibility about 40km(25 miles), overcast with no heat shimmer.				
Measurement Accuracy*1	Fine: ±(2mm+2ppm×D)m.s.e. Coarse: ±(7mm+2ppm×D)m.s.e.			
Measuring Time	Fine mode 1mm: Approx.1.1 sec. (Initial 2.5 sec.) 0.2mm: Approx. 1.5 sec. (Initial 3 sec.) Coarse mode 1mm/10mm: Approx. 0.8 sec. (Initial 2 sec.)			
Non-Prism Mode (Diffusing Surface)				
Measuring Range	1.5m to 350m			
Measuring Accuracy	±(3mm+2ppm×D)m.s.e. Coarse: ±(10mm)m.s.e.			
Measuring Time	Fine mode 1mm: Approx. 1.7 sec. (Initial 3 sec.) 0.2mm: Approx. 2.6 sec. (Initial 3.5 sec.) Coarse mode 1mm/10mm: Approx. 1.0 sec. (Initial 2.0 sec.)			
ANGLE MEASUREMENT				
Method	Absolute Reading			
Detecting System	H: 2 sides V: 2 sides	H: 2 sides V: 1 side		H: 1 side V:1 side
Minimum Reading	1″/5″ (0.2/1mgon)			5″/10″(1/2mgon)
Accuracy*2	2″(0.6mgon)	3″(1mgon)	5″(1.5mgon)	7″(2mgon)
Diameter of Circle	71mm			
DISPLAY				
Display Unit	Graphics LCD 160 × 64 Dots with backlight			
	2 sides			1 side
Keyboard	Alpha-Numeric key			
TILT CORRECTION (AUTOMATIC INDEX)				
Tilt Sensor	Dual axis			Single axis
Method	Liquid type			
Compensating Range	±3′			
Correction Unit	1″ (0.1mgon)			
OTHERS				
The Number of Measuring Points	Approx. 24,000 points			
Instrument Height	176mm (6.93 in.)			
Laser Class	Class 1 (for distance measurement) Class 2 (Laser Pointer on)			
LEVEL SENSITIVITY				
Circular Level	10′/2mm			
Plate Level	30″/2mm			40″/2mm
DIMENSION	336(H)×184(W)×172(L)mm/13.2(H)×7.2(W)×6.8(L)in.			
WEIGHT				
Instrument (with battery)	5.3kg(11.6 lbs.)			
Plastic Carrying Case	3.4kg (7.3 lbs.) (Weight of the carrying case may be slightly different due to specific market.)			
DURABILITY				
Protection against water and dust	IP66 (with BT-52QA) (Based on the standard IEC60529)			
Ambient Temperature Range	−20°C to +50°C (−4°F to +122°F)			
BATTERY BT-52QA				
Maximum operating time (when fully recharged) at +20°C (+68°F)				
Angle measurement only/Including distance measurement	45 hours/5 hours			

*1 D: Measuring Distance *2 Standard deviation based on DIN18723

Your local Authorized Topcon Dealer is:

C. Intergroup Co., Ltd.
160 Soi Paholyotin 14, Paholyotin Rd., Samsennai, Payatai,
Bangkok 10400
Tel. 0-2278-0002, 0-2616-7671 to 2 Fax: 0-2278-2435
http:www.cintergroup.com http://www.cig.co.th e-mai: cig@cintergroup.com

Specifications subject to change without notice

PRINTED WITH SOY INK