



# Simple and Easy Entry level Reflectorless Total Station

- Design and Quality by TOPCON, Japan
- Long operation time  
(three days by one charge\*)  
\* one distance measurement every 30 seconds
- Laser pointer for layout
- Long range reflectorless measurement



Designed by Topcon

# About 2LS™

2LS marks a new market concept in the laser tools business. 2LS incorporates products, sales and marketing material into a self-explaining platform. Products are high quality positioning tools that bridge the gap between "do-it-yourself" laser gadgets and industrial quality laser and surveying instruments used on large construction and civil engineering projects. And materials around the products ensure minimum time effort in understanding the capabilities, applications and unique feature points of the products via various modern marketing methods.

## Specifications

| Model                                |                       | CYGNUS series |                                  |
|--------------------------------------|-----------------------|---------------|----------------------------------|
|                                      |                       | KS-102        |                                  |
| <b>Telescope</b>                     |                       |               |                                  |
| Magnification                        |                       |               | 30x                              |
| Image                                |                       |               | Erect                            |
| Field of View                        |                       |               | 1°30'                            |
| Resolving power                      |                       |               | 3.0"                             |
| Minimum focus distance               |                       |               | 1.3m                             |
| <b>Angle measurement</b>             |                       |               |                                  |
| Display resolution                   |                       |               | 1" / 5"                          |
| Accuracy                             |                       |               | 2"                               |
| Axis compensator                     |                       |               | 1 axis, ±3' (Compensation range) |
| <b>Distance measurement</b>          |                       |               |                                  |
| Measuring range                      | Reflectorless         |               | 200m                             |
|                                      | Prism                 |               | 2,000m (Single Prism)            |
| Accuracy                             | Reflectorless         |               | (3+2 ppm x D)mm                  |
|                                      | Prism                 |               | (2+2 ppm x D)mm                  |
| Measuring time (Fine)                | Reflectorless         |               | 1.1s                             |
|                                      | Prism                 |               | 1.1s                             |
| <b>Interface and Data Management</b> |                       |               |                                  |
| Display                              |                       |               | Graphic LCD                      |
| Keyboard                             |                       |               | 24 Alpha-Numeric Keys            |
| Control panel location               |                       |               | 2 sides                          |
| Data storage                         | Internal memory       |               | 24,000 pts                       |
|                                      | Plug-in memory device |               | N/A                              |
| Interface                            |                       |               | Serial RS-232C                   |
| <b>General</b>                       |                       |               |                                  |
| Levels                               | Plate Level           |               | 30" / 2mm                        |
|                                      | Circular level        |               | 10' / 2mm                        |
| Optical plummet (Magnification)      |                       |               | 3x                               |
| Dust and water protection            |                       |               | IP54                             |
| Operating temperature                |                       |               | -20 to 50°C                      |
| Size with handle                     |                       |               | 336(H) x 184(W) x 172(L) mm      |
| Weight with battery & tribrach       |                       |               | 4.9kg                            |
| <b>Power supply</b>                  |                       |               |                                  |
| Battery                              |                       |               | BT-77Q                           |
| Operating time(20°C)                 |                       |               | Approx. 23 hours                 |

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