



## Alpha X Total Station

- ✓ Equipped with dual-axis compensator.
- ✓ LCD display with 6 lines \* 20 characters.
- ✓ Standard Bluetooth onboard, it can be connected with a data collector and operated with SurPro6.0.

## Specifications >>>

|                                       |                                   |                                                |                                          |
|---------------------------------------|-----------------------------------|------------------------------------------------|------------------------------------------|
| <b>Telescope</b>                      |                                   | <b>Level vial sensitivity</b>                  |                                          |
| Length                                | 156mm                             | Plate level vial                               | 30"/2mm                                  |
| Image                                 | Erect                             | Circular level vial                            | 8'/2mm                                   |
| Objective aperture                    | φ45mm                             | <b>Laser plummet(Standard)*4</b>               |                                          |
| Magnification                         | 30×                               | Accuracy                                       | ±1mm/1.5m                                |
| Field of view                         | 1°30'                             | Laser class                                    | Class 2/IEC60825-1                       |
| Shortest focus distance               | 1.0m                              | Laser spot brightness                          | Adjustable                               |
| <b>Angle measurement</b>              |                                   | Laser wave length                              | 635nm                                    |
| Reading system                        | Absolute encoder                  | <b>Optical plummet(Factory Optional)</b>       |                                          |
| Angle unit                            | 360°/400gon/6400mil, selectable   | Accuracy                                       | ±0.8mm/1.5m                              |
| Display resolution                    | 1"/5"/10"(or 0.2mgon/1mgon/2mgon) | Image                                          | Erect                                    |
| Accuracy*1                            | 2"/5"                             | Magnification                                  | 3×                                       |
| <b>Distance measurement</b>           |                                   | Field of view                                  | 4°                                       |
| Laser class(IEC60825-1)               |                                   | Focus range                                    | 0.5m to ∞                                |
| Reflectorless                         | Class 3R                          | <b>Power</b>                                   |                                          |
| Reflective sheet/RP60                 | Class 3R                          | Battery                                        | 3400mAh Li-ion Rechargeable              |
| Prism                                 | Class 1                           | Output voltage                                 | 7.4V DC                                  |
| Measurement range (Good condition)*2  |                                   | Continuous operation time                      | Approx.26 hours(At +20°C)                |
| Reflectorless*3                       |                                   | (Single distance measurement every 30 seconds) |                                          |
| Reflectorless                         | 1 to 1000m                        | Charger                                        | FDJ6-Li (100V/240V)                      |
| Reflective sheet/RP60                 | 1 to 1200m                        | Charging time(at +20°C)                        | Approx. 4 hours                          |
| Single prism                          | 1 to 5000m                        | <b>Application programs</b>                    |                                          |
| Accuracy                              |                                   | Data collection/Stake out/Resection/REM/MLM    |                                          |
| Prism                                 | 2mm+2ppm                          | AREA/Point to line/Z coordinate/OFFset         |                                          |
| Reflective sheet/RP60                 | 3mm+2ppm                          | <b>Others</b>                                  |                                          |
| Reflectorless                         | 3mm+2ppm                          | Display                                        | LCD, 4lines X16characters(64 X128 dots)  |
| Measuring time                        | Initial:2s                        | CPU                                            | 32Bit                                    |
| Prism                                 | typ.1.0-1.5s                      | Memory                                         | 120000 points, support SD card(Optional) |
| Reflective sheet/RP60                 | typ.1.5s                          | Keyboard                                       | Alphanumerical key board, both sides     |
| Reflectorless                         | typ.1.5-5s                        | Weight(including batteries)                    | 5.1kg                                    |
| Display resolution(m/inch selectable) | 0.2mm/1mm                         | Dimensions(WxDxH)                              | 175x178x340mm                            |
| Pressure input range                  | 500hPa to 1500hPa( 1hPa steps)    | Operating temperature                          | -20°C to +50°C                           |
| Temperature input range               | -40°C to +60°C(1°C steps)         | Storage temperature                            | -40°C to +70°C                           |
| Prism constant correction             | -99.9mm to +99.9mm                | Interface                                      | USB/RS-232C/Bluetooth(Factory Optional)  |
| <b>Compensator</b>                    |                                   | Water and dust protection                      | IP66(IEC60529)                           |
| Range/Setting accuracy                | ±3'/1"                            |                                                |                                          |

\* 1 Standard deviation based on ISO17123-3

\* 2 Good conditions: no haze, visibility about 40km, no heat shimmer, breeze

\* 3 Reflector: White side of Kodak Gray Card with 90% reflective \* 4 Laser plummet mounted on the bottom of the vertical axis

Illustrations, descriptions and technical specifications are not binding and may change