## TTS" 300 - Optical Surveying Instrument



Power Supply
2 Lithium-lon
batteries

Continuous useat $20^{\circ} \mathrm{C}\left(68^{\circ} \mathrm{F}\right)$. Angleand distancemode about 16 hours ( 1 point per 15 seconds). Charging time with P/N 31790-00: 4 hours per battery
Instrument can beqperated with oneor two batteries Batteriesarehot swappable External OperatingVoltage10.5-22V DC

| TECHNICAL S | SPECIFICATIONS |
| :---: | :---: |
| Tesescope |  |
| Type | $360^{\circ}$ transiting |
| Objective aperature 40 mm (1.6 ${ }^{\prime \prime}$ ) |  |
| Magnification | 30x (erect image) |
| Resolving power | 5 seconds |
| Field of view | $1.5^{\circ}$ |
| Minimumfocus | 1.5 m (4.9') |
| Two-speed Focusing ring | Provided |
| Physical |  |
| Instrument Size | $\begin{aligned} & 20 \mathrm{cmW} \times 22.5 \mathrm{cmD} \times 35 \mathrm{~cm} \mathrm{H} \\ & \left(7.9^{\prime \prime} \mathrm{W} \times 8.9^{\prime \prime} \mathrm{D} \times 13.8^{\prime \prime} \mathrm{H}\right) \end{aligned}$ |
| weight | 4.8 kg (10.5 lbs.) |
|  | Weight indudes batteries and tribrach. |
| Electrical |  |
| Power | 3W Maximum |
| Display | 128x64 dot matrix LCD. Backlight, non-reflective glass |
| Keyboard | 25 keys (softkeys, edit keys, meesure buttons, 4-directional arrow key, illumination, contrast) |
| Cormunication | RS232C interfacefor external connection |
| General |  |
| Sensitivity of level | 10'/2mm |
| Optical plummet (in tribrach) | Erect image Min focus 0.5 m (1.64') |
| Self-diagnostic functions | Automatic and continuous. Messages/codes displayed |
| Battery check <br> display | Continuous. Messages/codes displayed |
| Automatic power cut-off | ON/OFF selectable, delay user-definable |
| Language versions | Loadable |
| Certification | FCC and CE Mark approved |
| Environmental |  |
| Operating temperature | $-20^{\circ} \mathrm{C}$ to $+50^{\circ} \mathrm{C}\left(-4^{\circ} \mathrm{F}\right.$ to $\left.+122^{\circ} \mathrm{F}\right)$ |
| Storage temperature | $-30^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}\left(-22^{\circ} \mathrm{F}\right.$ to $\left.+158^{\circ} \mathrm{F}\right)$ |
| Water resistance | Class IPX4 |
| Laser Eye Safty |  |
| us | Class I laser product in accordance with the United |
|  | States Food and Drug Administration document 21 CFR |
|  | Subchapter J <br> TheEDM incorporates a dassIIIb laser di ode permanently attached to an qptical fiber. |
| Europe | Class 3A laser product in accordance with IEC 60825-1; 1997 "Radiation Safety of Laser Product"" |

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