



MS MEASURING

MSO5AXI/MS1AXI





Model MSGAZU MSGAZU Telescope 300/25" 300/25" Magnification / Resolving power 300/25" 300/25" Objective spetture - Seminitis in (Seminitis in Seminitis - Seminitis in (Seminitis in Seminitis - Seminitis in Seminitis - Seminite - Seminite - Seminitis - Seminite - Seminitis - Seminite - Se					
tetescy 30x / 2.5" Objective aperture. 4sem (1 is 1) (20m) 2 is 1 for EDM), Image Freet, Field of view. ¹⁵ % (2 s. 17, 0.00 m), Minimum focus: 1 am (4 3.10,	Model		MS05AXII	MS1AXII	
Magnitation / Reoling pose: Josef an aptrate. Josef 12 mil (2 m) for EDM, Image Erect, Field or view. '*9' (2 km // 2.00 m). Minimum focus: 1.3 m (4.5 ft). Ange measurement Data asis: liquid ft sensor, vording range : #6 / Collimation compensation available Provided Data asis: liquid ft sensor, vording range : #6 / Collimation compensation available Provided Data asis: liquid ft sensor, vording range : #6 / Collimation compensation available Provided Data asis: liquid ft sensor, vording range : #6 / Collimation compensation available Provided Data asis: liquid ft sensor, vording range : #6 / Collimation compensation available Provided Data asis: liquid ft sensor, vording range : #6 / Collimation compensation available Provided Data asis: liquid ft sensor, vording range : #6 / Collimation compensation available Provided Data asis: liquid ft sensor, vording range : #6 / Collimation compensation available Provided Data asis: liquid ft sensor, vording range : #6 / Collimation compensation available Provided Data asis: liquid ft sensor, vording range : #6 / Collimation compensation available Provided Minimum disales (under source conditions') Reflectores when ESON #7 : 15 to 5000 ft (5 to 10 / 10 / 10 / 10 / 10 / 10 / 10 / 10	Telescope				
Objective sporture - Smm (1 a m.). Glomm (2.0 in.) for EDM), Image: Errer, Field of view. (*50 (2 6 m/l, 2000 m, 2000 for 20.000 gm, 20.000 for 20.000 m]) Acaresy (50 / 1725-2000) U.5 " [* Dual axis found the throng of the server - Smith and the server working range: +67 / Colimation compensation available Absorted angle conduct technology Provided Distance measurement Lesr output" Relectorless mode: Class 3R / Prism/Batert mode: Class 1 Mosaring range One prism" 130 5.500 m (4.3 to 14.00 h) (moder good condition') Reflectorless " 0.5 to 000 m (0.64 to 13.01 h) Minimum display Conditions' C	Magnification / Resolving power		30x/2.5"	30x/2.5"	
Argle messurement 0.1° / 0.5° (0.0002 / 0.001 gan, 0.0005 / 0.002 m] Accuracy (Collination compensation compensation Dual axis (ingrander) (Collination compensation available Advanced angle encoder technology Provided Distance messarement Relectoreless mode: Class 31, PrismyNeter mode: Class 1 Messaning range One prism ² 15 to 2.500 m (A 3 to 1.48 to 1.18 to 1.1) (inder good conditions ²) Relectoreless ² 0.500 m (1.64 to 1.501 m) (inder good conditions ²) Relectoreless ² 0.500 m (1.64 to 1.501 m) (inder good conditions ²) Relectoreless ² 0.500 m (1.64 to 1.510 m) (inder good conditions ²) Relectoreless ² 0.500 m (1.64 to 1.510 m) (inder good conditions ²) Relectoreless ² 0.500 m (1.64 to 1.510 m) (inder good conditions ²) Relectoreless ² 0.510 mm (1.4 to 1.510 m) (inder good conditions ²) Relectoreless ² 0.51 min m (2.4 tipon t.2) mm (inder avage conditions ³) Relectoreless ² 0.53 tipon m (2.4 tipon t.2) mm (inder avage conditions ³) Relectoreless ² 0.5 tipon t.2) mm (2.4 tipon t.2) mm (inder avage conditions ³) Relectorelestore ² 85% <td< td=""><td>Objective aperture: 45mm (1.8 in.) (50r</td><td>mm (2.0 in.) for EDM), Image: Erect, Field of vie</td><td>ew: 1°30' (26 m/1,000 m), Minimum focus: 1.3 m (4.3 ft.),</td><td></td></td<>	Objective aperture: 45mm (1.8 in.) (50r	mm (2.0 in.) for EDM), Image: Erect, Field of vie	ew: 1°30' (26 m/1,000 m), Minimum focus: 1.3 m (4.3 ft.),		
Depler exolutions (det ctable)	Angle measurement				
Accuracy (26) 1723-23200) 0.5° 1° Darlawis compensation compensation Darlawis kingen show (writing range ±67 / Collimation compensation available Advanced angle encoder technology Provided Distance measurement 13 to 2500 rd 33 to 1148 0h 1, (under good conditions') Reflective sheet 5501 kR'' 13 to 2500 rd 33 to 1148 0h 1, (moder good conditions') Reflective sheet 5501 kR'' 13 to 2500 rd 31 to 148 0h 1, (moder good conditions') Reflective sheet 5501 kR'' 13 to 2500 rd 31 to 148 0h 1, (moder good conditions') Reflective sheet 5501 kR'' 13 to 2500 rd 31 to 148 0h 1, Minimum display 0.0000 tn / 0.0001 m 0.0001 m/ 0.0001 m 0.0001 th / 0.01 th / 1/8 in . (Go 1724 2001) Reflective sheet ''' (G a + 1ppn x D) mm (1 + 1ppn x D) mm (Go 1724 2001) Reflective sheet ''' (G a + 1ppn x D) mm (1 + 1ppn x D) mm (Go 1724 2001) Reflective sheet ''' (G a + 1ppn x D) mm (1 + 1ppn x D) mm (Go 1724 2001) Reflective sheet ''' (G a + 1ppn x D) mm (1 + 1ppn x D) mm (Go 1724 2001) Reflective sheet ''' (G a + 1ppn x D) mm (1 + 1ppn x D) mm (Go 1724 2001) Reflective sheet ''' (G a + 1ppn x D) mm (1 + 1ppn x D) mm (Go 1724 2001) Reflective sheet '''' (G	Display resolutions (selectable)		0.1" / 0.5" (0.00002 / 0.0001 gon, 0.0005 / 0	.002 mil)	
Dal-aksi kigad fit sensor, working range :16 / Collination compensation available Abarced angle nocket rechnology Produkt User autput Product rechnology Produkt Kensor autput Produkt Produkt Messaring range Orgensen ¹ 1.5 to 5.00 m (4.5 to 1.4.00 ft). Minimum display Octool 1.5 to 400 m (1.6 to 1.510 ft). Reflective fields: 0.5 to 100 m (1.6 to 1.500 ft). Reflective fields: 0.5 to 100 m (1.6 to 1.500 ft). Reflective fields: 0.5 to 100 m (1.6 to 1.510 ft). Ninimum display Octool 1.0 to 0.000 m 0.0000 m / 0.0000 m 0.0000 m 0.0000 m / 0.0000 m 0.0000 m / 0.0000 m 0.0000 m	Accuracy (ISO 17123-3:2001)		0.5"	1"	
Advanced angle encoder technology Provided Laser output ¹¹ Barden cross rander. Class 3, Prismy P	Dual-axis compensator / Collimation co	mpensation	Dual-axis liquid tilt sensor, working range: $\pm 6'$ / Collimation compensation available		
Distance measurement Laser output ¹ Reflective less mode: Class 3R / Prism/Sheet mode: Class 1 Measuring range (under good conditions') In the second sec	Advanced angle encoder technology		Provided		
Laser output ¹ Reflectories mode: Class 31 / Principleet mode: Class 1 Measuring range (under good conditions ⁶) One prism ¹ 1.5 to 5500 (4; 50 to 14, 5	Distance measurement				
Measuring range (under good conditions") Deprim" 1.3 to 3,500 (H,3 to 01,4,80 to 0,1) Reflective selve RSSDN-R" 1.5 to 200n (H,3 to 640 to, 1) 0.5 to 400 m (L64 to 1,310 th.) Minimum display 0.0000 m / (0.000 m / 0.0000 m / </td <td>Laser output^{*1}</td> <td></td> <td colspan="2">Reflectorless mode: Class 3R / Prism/sheet mode: Class 1</td>	Laser output ^{*1}		Reflectorless mode: Class 3R / Prism/sheet mode: Class 1		
(under good conditions ¹) Reflective sheef R550K-R ¹ 0, 51 to 100 m (1.44 to 320 ft.) 0, 50 to 400 m (1.64 to 1,310 ft.) Minimum display Reflective sheef R550K-R ¹ 0, 50 to 100 m (1.64 to 320 ft.) 0, 0000 ft. / 0001 m 0, 0000 ft. / 0001 ft. / 1/6 in / 1/8 in) Accuracy Prism ¹ (0, 82 + tppm x D) mm (1 + tppm x D) mm (1 + tppm x D) mm (2 + tppm x D) mm (2 + tppm x D) mm (3 to 54 rbpm x D) mm (4 + tppm x D) mm (4 + tppm x D) mm (2 + tppm x D) mm (5 to 7125 + 2000) Reflective sheet ¹ 0, 55 (rbial 1.5s) Neor Pre Rotation speed Rotation speed Rotation speed Rotations ¹ Reflective sheet ¹ 0 pre isin (1 + tppm x D) mm (1 + tppm x D) mm (2 + tppm x D) mm (3 + tppm x D) mm (4 + to 5, x D + tppm x D) mm (5 + tppm x D) m (5 + tppm	Measuring range	One prism ^{*3}	1.3 to 3,500 m (4.3 to 11,480 ft.)	1.3 to 3,500 m (4.3 to 11,480 ft.)	
Reflectorless ² 0.5 to 100 m (1.64 to 12.01.) 0.5 to 400 m (1.64 to 12.01.) 0.0001 m <	(under good conditions ^{*2})	Reflective sheet RS50N-R ^{*4}	1.3 to 200m (4.3 to 640 ft.)		
Minimu display 0.0001 m / 0.0001 m / 0.0001 m / 0.001 m		Reflectorless*5	0.5 to 100 m (1.64 to 320 ft.)	0.5 to 400 m (1.64 to 1,310 ft.)	
couracy Prism ⁿ 0.00 + 1ppm X.D pmm (1 + 1ppm X.D pmm (So 17123 + 22.00) Reflective sheet ³ 0.5 + 1ppm X.D pmm (1 + 1ppm X.D pmm (D=measuring distance in mm) Reflective sheet ³ 0.5 + 1ppm X.D pmm (2 + 1ppm X.D pmm ³) Measuring time (rine mode) ⁷ 0.5 (initial 1.S) The second of the condition of	Minimum display		0.00001 m / 0.0001 m	0.0001 m / 0.001 m	
Accuracy Prim ³ (0.8 + lppm x.D mm (1 + lppm x.D) mm (Beflective sheet ¹⁴ (0.5 + lppm x.D) mm (1 + lppm x.D) mm (2 + lppm x.D) mm ³ (De measuring distance in mm) Reflective sheet ¹⁴ (D + lppm x.D) mm (2 + lppm x.D) mm ³ Messaring time (Fine mode) ¹⁷ Ds (initial 1.S) Dc motor drive Ration speed DC motor drive B57/5 Auto-Collimating Dc mprism 1.5 to 1.000 m (4 5 to 3.280 ft). (under avarage conditions ¹⁷) Reflective sheet RS50N-R ²⁰ 5 to 50m (16 to 1601.) Sighting accuracy prism 11'd rum @ 20.0 m) C5. Operating system Midnows Embedded CE 6.0 Dsplay ^{2*} Sighting truncent support Operating system Sighting accuracy Prism Sighting truncent support Data straage Internal memory 500MB (includes memory for program files) E6 Calendar / clock function Provided Serial RS -322, USB2.0 (Type A/L minib) Eluctorth Size Size Size Size Size Size Size Size			(0.0001 ft. / 0.001 ft., 1/64 in. / 1/16 in.)	0.001 ft. / 0.01 ft., 1/16 in. / 1/8 in.)	
(50 1723-42001) Reflective sheet ¹ (0.5 + 1ppm x.D) mm (1 + 1ppm x.D) mm (2 + 1ppm x.D) mm (0measuring distance in mm) Reflectorless ¹ (0.5 (minil 1.5g) Motor	Accuracy	Prism ^{*3}	(0.8 + 1ppm x D) mm	(1 + 1ppm x D) mm	
(U = mesuring distance in mm) Reflectorless ⁷⁵ (I + 1pm x D) mm (2 + 1pm x D) mm ⁷⁶ 0.95 (initial 1.55) Mesoring time (Fine mode) ⁷⁷ Description (5 to 160) Type DEC motor drive Retain speed DEC motor drive Retain speed B857/s Auto-Collimating Working range One prism I 1.3 to 1.000 m (4.3 to 3,280 ft) (inder avarage conditions ⁷) Reflective sheet 8550N-R ⁷⁵ 5 to 50m (16 to 160)t) Sighting accuracy prism I 1.3 to 1.000 m (4.3 to 3,280 ft) (conder avarage conditions ⁷) Reflective sheet 8550N-R ⁷⁵ 5 to 50m (16 to 160)t) Sighting accuracy prism I 1't (1 mm @ 200 m) Reflective sheet ⁷⁹ 4't (1 mm @ 50 m) OS, Interface and Data management Operating system Display ⁷⁶ Sighting system Videous Embedded CE 6.0 Display ⁷⁰ Trigger key On fight instrument support Data storage Internal memory 500M (includes memory for program files) Plug-in memory device USB flash memory (up to 8 GB) Calendar / clock function Internal Memory Plug-in memory device USB flash memory (up to 8 GB) Calendar / clock function Internal Memory Bluetooth modem ⁷¹ Bluetooth modem ⁷¹ Engret searchlight LED (South (25 to 1600 (1, 100 m (1, 96 oft.) ⁷¹² Ceneral Target searchlight LED (white), Blink / On, selectable Leaver pointer Cosail area laser support Dista Bluetooth Class 1, Ver.2.1+EDR, Operating range: up to 600m (1,960 ft.) ⁷¹² Engret searchlight Leaver Significa Graphic Graphic Graphic Significa	(ISO 17123-4:2001)	Reflective sheet*4	(0.5 + 1ppm x D) mm	(1 + 1ppm x D) mm	
Mesor (Fine mode)? 0.95 (initial 1.5) Motor DC motor drive Botains speed BS*7s Auto-Collimating 0.0 e prism 1.3 to 1.000 m (4.3 to 3,280 ft.) (under swrage conditions") Reflective sheet RS:0N-R" 5 to 50m (16 to 1601.) Sighting accuracy prism 1" (1 mm @ 200 m) (SO 17123-3) Reflective sheet " 4" (1 mm @ 200 m) (SO 17123-3) Reflective sheet " 4" (1 mm @ 200 m) Operating system Widnows Embedded CE 6.0 Deprating system Operating system Widnows Embedded CE 6.0 Display." Display."* 3.5 inch, transmissite TIT QVCA color LCD with LED backlight, Touch screen, Automatic brightness control Keyboard"* 25 kers with backlight Toger kers Data storage Internal memory 500MB (includes memory for program files) Plug-in memory device USB flash memory for program files) Plug-in memory device UsB flash memory device USB flash memory for program files) Edendar / Urp A. / minB) Bluetooth Class 1, Ver.2.1+EDR, Operating range: up to 600m (1,960 ft.)"** Grand K- 2322, USB 20. (Type A / minB) Bluetooth Class 1, Ver.2.1+EDR, Operating range: up to 600m (1,960 ft.)** <	(D=measuring distance in mm)	Reflectorless ^{*5}	(1 + 1ppm x D) mm	(2 + 1ppm x D) mm ^{*6}	
Motor DC Type DC motor drive Rotation speed BS*/s Auto-Collimating	Measuring time (Fine mode) ^{*7}		0.9s (initial 1.5s)		
Type DC motor drive Ratation speed 85% Auto-Collimating	Motor				
Rotation speed B5% Auto-Collimating One prism 1.3 to 1,000 m (4.3 to 3,280 ft.) (under avarage conditions [®]) Reflective sheet R550N-R [®] 5 to 50m (16 to 160ft.) Sighting accuracy prism 1" (1 mm @ 20 m) (Sto 1712.3-) Reflective sheet ⁹ 4" (1 mm @ 50 m) Operating system Uvidnows Embedded CE 6.0 Display ¹⁰⁰ 3.5 inch, transmissive TFI QVGA color LCD with LED backlight, Touch screen, Automatic brightness control Keyboard ¹⁰⁰ 25 keys with backlight 25 keys with backlight Trigger key On right instrument support Data storage Interface Stoft B82.3-20, Utype A / min8) Bluetooth Class 1, Ver.2.1+EDR, Operating range: up to 600m (1,960 ft.) ¹⁷² General Target searchlight LED (white), Blink / On, selectable Laser-pointer Laser-pointer Coasial red laser using EDM beam, ON / OFF, selectable Evels Graphic 6 (1 cmer Grice) Optical plummet Magnification: 3n, Minimum focus: 0.5 m (19.7 in) from tribrach bottom Display and keyboard on obt faces: 20 (W) X 309 (H) mm Dust and water protection / Operating trible Display and keyboard on obt faces: 20 (W) X 307 (D) X 393 (H) mm Display and keyboard on obt faces: 7.0 kg (15.4 lb)	Туре		DC motor drive		
Auto-Collimating Is to 1,000 m (4.3 to 3,280 ft.) Working range (under avarage conditions") Reflective sheet RS50N-R° 5 to 50m (16 to 160ft.) Sighing accuracy prism 1* (1 mm @ 200 m) Sighing accuracy prism 1* (1 mm @ 200 m) OS, Interface and Data management OS, Interface and Data management 0 Operating system Widnows Embedded CE 6.0 0 Display ¹⁰ 3.5mch, transmissive FT QVGA color LCD with LED backlight, Touch screen, Automatic brightness control Keyboard ¹⁰ 25 keys with backlight 1 Trigger key On right instrument support 1 Data storage Internal memory 500MB (includes memory for program files) Calendar / clock function Provided 1 Interface Serial RS-232C, USB2 0. (Type A / miniB) Bluetooth modem ¹¹¹ Bluetooth Class 1. Vec.2.1+EDR, Operating range: up to 600m (1,960 ft.) ^{1/2} General Crasplic 6' (nem Circle) Caredar Level 10' / 2 mm 0picial plummet Dust and water protection / Operating temperature IEO (white), Blink / On, selectable Levels Graphic	Rotation speed		85°/s		
Working range (under avarage conditions") One prism 1.3 to 1,000 m (4.3 to 3,280 ft.) (under avarage conditions") Reflective sheet RSS0N-R" 5 to 50m (16 to 160ft.) (Spliting accuracy (ISO 17123-3) Prism 1" (1 mm @ 200 m) OF, Interface and Data management Widnows Embedded CE 6.0 Operating system Widnows Embedded CE 6.0 Display" ¹⁰ 3 Sinch, transmissive TFT QVGA color LCD with LED backlight, Touch screen, Automatic brightness control Keyboard "0 Trigger key On right instrument support Data storage Internal memory Plug-in memory device USB flash memory (to to 8 GB) Calendar / clock function Provided Interface Serial RS-232C, USB2.0 (Type A / miniB) Bluetooth modem ¹¹¹ Bluetooth Class 1, Ver 2.1 +EDR, Operating range: up to 600m (1,960 ft.)" ¹¹² General Target searchlight LED (white), Blink / On, selectable Laser-pointer Coaxia ref alser using EDM beam, ON / OFF, selectable Levels Graphic 6' (Inner Circle) Optical plummet Magnification: S. Minimum focus: 0.5m (19.7in) from tribrach bottom Display and keyboard on one face: 230 (W) X 196 (D) X 393 (H) mm Displ	Auto-Collimating		1 ,		
(under avarage conditions ⁷) Reflective sheet RS50N-R ⁷⁹ 5 to 50m (16 to 160ft.) Sighting accuracy prism 1" (1 mm @ 200 m) ((SO 17123-3)) Reflective sheet ⁷⁹ 4" (1 mm @ 200 m) Opcating system Widnows Embedded CE 6.0 Display ⁷⁰ 3.5 inch, transmissive TFT QVGA color LCD with LED backlight, Touch screen, Automatic brightness control Keyboard ⁷⁰ 25 keys with backlight Trigger key On right instrument support Data storage Internal memory Pug-in memory device USB flash memory (up to 8 GB) Calendar / clock function Provided Interface Serial RS-322C, USB2.0 (Type A / miniB) Bluetooth modem ⁷¹¹ Bluetooth Class 1, Ver.2.1+EDR, Operating range: up to 600m (1,960 ft.) ⁷¹² Cemeral Coasial red laser using EDM beam, ON/ OFF, selectable Levels Graphic Coasial red laser using EDM beam, ON/ OFF, selectable Levels Graphic Graphic Sighi (2 mm Optical plummet Magnification: 3, Minimum focus: 0.5m (19.7in) from tribrach bottom Display and keyboard on one face: 230 (W) X 307 (D) X 393 (H) mm Display and keyboard on one face: 320 (W) X 307 (D) X 393 (H) mm Display and keyboard on one face: 320	Working range	One prism	1.3 to 1,000 m (4.3 to 3,280 ft.)		
Sighting accuracy prism 1* (1 mm @ 200 m) (ISO 1723-3) Reflective sheet* 4* (1 mm @ 50 m) OS, Interface and Data management Operating system Widnows Embedded CE 6.0 Display ¹⁰ 3.5inch, transmissive IFT (QVCA color LCD with LED backlight, Touch screen, Automatic brightness control Keyboard*** Trigger Key On right instrument support Data storage Internal memory 500MB (includes memory for program files) Plug-in memory device USB flash memory (up to 8 GB) Calendar / clock function Provided Interface Serial R5-232C, USB2.0 (Type A / miniB) Bluetooth modem*** Bluetooth Class 1, Ver.2.1+EDR, Operating range: up to 600m (1,960 ft)**** General	(under avarage conditions ^{*8})	Reflective sheet RS50N-R*9	5 to 50m (16 to 160ft.)		
(ISO 17123-3) Reflective sheet ^{*9} 4* (1 mm @ 50 m) OS, Interface and Data management Widnows Embedded CE 6.0 Display ^{*0} Sinch, transmissive TF1 QVCA color LCD with LED backlight, Touch screen, Automatic brightness control Ze keys with backlight 25 keys with backlight Trigger key On right instrument support Data storage Internal memory Plug-in memory device USB flash memory (up to 8 GB) Calendar / clock function Provided Interface Serial RS-232C, USB2.0 (Type A / miniB) Bluetooth modem ^{*11} Bluetooth Class 1, Ver 2.1 + EDR, Operating range: up to 600m (1,960 ft.) ^{*12} General Coaxial red laser using EDM beam, ON / OFF, selectable Levels Graphic 6 (nmer Circle) Optical plummet Magnification: 3x, Minimum focus: 0.5m (19.7in.) from tribrach bottom Dust and water protection / Operating temperature Display and keyboard on one face: 30 (W) X 207 (D) X 393 (H) mm Display and keyboard on obth faces: 7.0 kg (15.4 lb) Display and keyboard on obth faces: 7.0 kg (15.4 lb) Power supply BDC72 Li-ion rechargeable battery Querating time (20°C) ^{*13} BDC72 Approx.4 hours Battery BDC72 Approx.	Sighting accuracy	prism	1" (1 mm @ 200 m)		
Op. Interface and Data management Widnows Embedded CE 6.0 Operating system 3.5 inch, trasmissive TFT QVCA color LCD with LED backlight, Touch screen, Automatic brightness control Keyboard ¹¹⁰ 25 keys with backlight Trigger key On right instrument support Data storage Internal memory Calendar / dock function Provided Interface Serial RS-232C, USB2.0 (Type A / miniB) Bluetooth modem ¹¹ Bluetooth Class 1, Ver.2.1+EDR, Operating range: up to 600m (1,960 ft.) ¹⁷² General Target searchight Laser-pointer Coaxial red laser using EDM beam, ON / OFF, selectable Laser-pointer Coaxial red laser using EDM beam, ON / OFF, selectable Levels Graphic Graphic Optical plummet Info Magnification: 3X, Minimum focus: 0.5m (19.7in) from tribrach bottom Dust and water protection / Operating temperature IP65 (IEC 60529:2001) / -20 to +50°C (4 to +122°F) Size with handle ¹⁰ Display and keyboard on one face: 230 (W) X 193 (H) mm Weight with battery & tribrach ¹⁰⁰ Display and keyboard on one face: 230 (W) X 207 (D) X 393 (H) mm Weight with battery & tribrach ¹⁰⁰ Display and keyboard on one face: 38 (B (5.0 Ib) Battery BDC72 Li	(ISO 17123-3)	Reflective sheet ^{*9}	4" (1 mm @ 50 m)		
Operating system Widnows Embedded CE 6.0 Display ¹⁰ 35 jinch, transmissive TFT QVGA color LCD with LED backlight, Touch screen, Automatic brightness control Keyboard ¹⁰⁰ 25 keys with backlight Trigger key On right instrument support Data storage Internal memory Plug-in memory device USB flash memory (up to 8 GB) Calendar / clock function Provided Interface Serial RS-322C, USB2.0 (Type A / miniB) Bluetooth modem ¹¹⁰ Bluetooth Class 1, Ver.2.1+EDR, Operating range: up to 600m (1,960 ft.) ¹⁷² General Itel (Minte), Blink / On, selectable Laser-pointer Coaxial red laser using EDM beam, ON / OFF, selectable Levels Graphic 6' (nner Circle) Optical plummet Magnification: 3x, Minimum focus: 0.5m (19.7in) from tribrach bottom Dust and water protection / Operating temperature IP65 (IEC 60529-2001) / -20 te +50°C (+4 to +122°F) Size with handle ¹⁰ Display and keyboard on ne face: 63 x0 (X) X 207 (D) X 393 (H) mm Weight with battery & tribrach ¹⁰⁰ Display and keyboard on ne face: 63 x0 (X) X 207 (D) X 393 (H) mm Display and keyboard on on bace: 53 (W) X 207 (D) X 393 (H) mm Display and keyboard on ne face: 63 k0 (S 10.61) Display and keyboard on ne face: 6	OS. Interface and Data managemen	it			
Display ¹⁰ 3.5inch, transmissive TFT QVGA color LCD with LED backlight, Touch screen, Automatic brightness control Keyboard ¹¹⁰ 25 keys with backlight Trigger key On right instrument support Data storage Internal memory Plug-in memory device USB flash memory (up to 8 GB) Calendar / clock function Provided Interface Serial RS-232C, USB2.0 (Type A / mini8) Bluetooth modem ¹¹¹ Bluetooth Class 1, Ver.2.1+EDR, Operating range: up to 600m (1,960 ft,) ¹¹² General Target searchlight LED (white), Blink / On, selectable Laser-pointer Coaxial red laser using EDM beam, ON / OFF, selectable Levels Graphic Gineural Level Optical plummet Magnification: 3x, Minimum focus: 0.5m (19.7in.) from tribrach bottom Dust and water protection / Operating temperature IP65 (IEC 60529:2001) / -20 to +50°C (-4 to +122°F) Size with handle ¹¹⁰ Display and keyboard on one face: 230 (W) X 196 (D) X 393 (H) mm Display and keyboard on one face: 5.20 kg (15.0 lb) Display and keyboard on one face: 7.0 kg (15.4 lb) Power supply BDC72 Li-ion rechargeable battery Operating time (20°C) ¹¹³ BDC72 Approx.4 hours External battery (option)	Operating system		Widnows Embedded CE 6.0		
Lopkay 1 ¹⁰ 25 keys with backlight Trigger key On right instrument support Data storage Internal memory Querication VSB flash memory for program files) Plug-in memory device USB flash memory for program files) Calendar / clock function Provided Interface Serial RS-232C, USB2.0 (Type A / miniB) Bluetooth modem ¹¹¹ Bluetooth Class 1, Ver.2.1+EDR, Operating range: up to 600m (1,960 ft). ¹¹² General Target searchlight Laser-pointer Coakial red laser using EDM beam, ON / OFF, selectable Levels Graphic Optical plummet Magnification: 3m, Minimum focus: 0.5m (19.7in.) from tribrach bottom Dust and water protection / Operating temperature IP65 (IEC 60529:2001) / -20 to +50°C (-4 to +122°F) Size with handle ¹¹⁰ Display and keyboard on one face: 320 (W) X 93 (H) mm Display and keyboard on noe face: 320 (W) X 393 (H) mm Display and keyboard on noe face: 320 (W) X 393 (H) mm Weight with battery & tribrach ¹¹⁰ Display and keyboard on noe face: 30 (W) X 393 (H) mm Display and keyboard on one face: 6.8 kg (15.0 lb) Display and keyboard on one face: 7.0 kg (15.4 lb) Power supply Battery Aprox.4 hours Butery of U	Display ^{*10}		3 Sinch transmissive TET OVGA color I CD with I	3.5inch, transmissive TFT OVGA color LCD with LFD backlight. Touch screen. Automatic brightness control	
Instrument Darget instrument support Data storage Internal memory Data storage Internal memory Plug-in memory device USB flash memory for program files) Calendar / clock function Provided Interface Serial R5-232C, USB.20. (Type A / miniB) Bluetooth modem ^{*11} Bluetooth Class 1, Ver.2.1+EDR, Operating range: up to 600m (1,960 ft,) ^{*12} General Interface Target searchlight LED (white), Blink / On, selectable Laser-pointer Coaxial red laser using EDM beam, ON / OFF, selectable Levels Graphic 6' (Inner Circle) Optical plummet Magnification: 3x, Minimum focus: 0.5m (19.7in.) from tribrach bottom Dust and water protection / Operating temperature IP65 (IEC 60252.001) / .20 to +50°C (-4 to +122°F) Size with handle ^{*10} Display and keyboard on one face: 320 (W) X 393 (H) mm Display and keyboard on one face: 32.00 (W) X 393 (H) mm Display and keyboard on one face: 32.00 (W) X 393 (H) mm Weight with battery & tribrach ^{*100} Display and keyboard on one face: 7.0 kg (15.4 lb) Power supply BLC72 Li-ion rechargeable battery Operating time (20°C) ^{*13} BDC72 Approx.4 hours Battery BDC72 Approx.4 hours	Keyboard ^{*10}	25 keys with backlight		25 Securation reaction reactio	
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Dust and water protection / Operating temperature Graphic Display and keyboard on both faces: 230 (W) X 196 (D) X 393 (H) mm Optical plummet Display and keyboard on both faces: 230 (W) X 207 (D) X 393 (H) mm Display and keyboard on both faces: 7.0 kg (15.4 lb) Power supply Battery BDC72 Li-ion rechargeable battery Operating time (20°C) ^{*13} BDC72 Approx.4 hours	Data storage Internal memory 500		500MB (includes memory for program files)	500MB (includes memory for program files)	
Calendar / clock function Provided Interface Serial RS-232C, USB2.0 (Type A / miniB) Bluetooth modem ^{*11} Bluetooth Class 1, Ver.2.1+EDR, Operating range: up to 600m (1,960 ft,) ^{*12} General Interface Target searchlight LED (white), Blink / On, selectable Laser-pointer Coaxial red laser using EDM beam, ON / OFF, selectable Levels Graphic Circular level 10' / 2 mm Optical plummet Magnification: 3x, Minimum focus: 0.5m (19.7in.) from tribrach bottom Dust and water protection / Operating temperature IP65 (IEC 60529:2001) / -20 to +50°C (-4 to +122°F) Size with handle ^{*10} Display and keyboard on one face: 230 (W) X 196 (D) X 393 (H) mm Display and keyboard on one face: 320 (W) X 207 (D) X 393 (H) mm Display and keyboard on one face: 6.8 kg (15.0 lb) Power supply Battery BDC72 Li-ion rechargeable battery Battery BDC72 Approx.4 hours Battery BDC72 Approx.4 hours External battery (option) B1-73Q: approx.14.5 hours	2010 2010 20	Plug-in memory device	USB flash memory (up to 8 GB)		
Cancendar / Jock Indication Provided Interface Serial RS-232C, USB2.0 (Type A / miniB) Bluetooth modem ^{*11} Bluetooth Class 1, Ver.2.1+EDR, Operating range: up to 600m (1,960 ft.) ^{*12} General Iarget searchlight LED (white), Blink / On, selectable Laser-pointer Coaxial red laser using EDM beam, ON / OFF, selectable Levels Graphic 6' (Inner Circle) Circular level 10' / 2 mm Optical plummet Magnification: 3x, Minimum focus: 0.5m (19.7in.) from tribrach bottom Dust and water protection / Operating temperature IP65 (IEC 60529:2001) / -20 to +50°C (-4 to +122°F) Size with handle ^{*10} Display and keyboard on one face: 230 (W) X 196 (D) X 393 (H) mm Display and keyboard on one face: 230 (W) X 207 (D) X 393 (H) mm Display and keyboard on one face: 6.8 kg (15.0 lb) Weight with battery & tribrach ^{*10} Display and keyboard on one face: 7.0 kg (15.4 lb) Power supply BL External battery (option) Blot272 Li-ion rechargeable battery Operating time (20°C) ^{*15} BDC72 Approx.4 hours Butery (option) B1-73Q: approx.14.5 hours	Calendar / clock function	riag in memory derive	Provided		
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Citerers Originit O (inite Citerers) Optical plummet 10' / 2 mm Dust and water protection / Operating temperature IP65 (IEC 60529:2001) / -20 to +50°C (-4 to +122°F) Size with handle ^{*10} IP65 (IEC 60529:2001) / -20 to +50°C (-4 to +122°F) Size with handle ^{*10} Display and keyboard on one face: 230 (W) X 196 (D) X 393 (H) mm Weight with battery & tribrach ^{*10} Display and keyboard on one face: 6.8 kg (15.0 lb) Display and keyboard on both faces: 7.0 kg (15.4 lb) Display and keyboard on both faces: 7.0 kg (15.4 lb) Power supply Eattery BDC72 Battery BDC72 Li-ion rechargeable battery Operating time (20°C) ^{*15} BDC72 Approx.4 hours Battery (option) BT-73Q: approx.14.5 hours	Lovels	Craphic	6' (Inner Circle)		
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Size and watch protection / Operating temperature IP55 (IEC 60259.2007) / 20 to +50°C (+4 to +122°F) Size with handle ¹⁰ Display and keyboard on none face: 230 (W) X 196 (D) X 393 (H) mm Weight with battery & tribrach ¹⁰ Display and keyboard on one face: 230 (W) X 207 (D) X 393 (H) mm Weight with battery & tribrach ¹⁰ Display and keyboard on one face: 6.8 kg (15.0 lb) Display and keyboard on both faces: 7.0 kg (15.4 lb) Power supply Battery BDC72 Qperating time (20°C) ¹¹⁵ BDC72 Approx.4 hours BT-73Q: approx.14.5 hours	Dust and water protection / Operating temperature		INIASIIIICALIOII. 3A, MIIIIIIIIIIIIIIIIIIUCUS. 0.3III (15./III.) ITOIII UTUIACII DOLLOIII IDES /IEC 60520:2001) / .20 to ±50°C (.4 to ±122°E)		
Display and keyboard on one race. 250 (W) X 196 (D) X 595 (Fr) filling Display and keyboard on one face: 230 (W) X 207 (D) X 393 (H) mm Weight with battery & tribrach*10 Display and keyboard on one face: 6.8 kg (15.0 lb) Display and keyboard on one face: 7.0 kg (15.4 lb) Power supply Battery BDC72 Display and keyboard on both faces: 7.0 kg (15.4 lb) Portion rechargeable battery Operating time (20°C)*15 BDC72 Approx.4 hours BT-73Q: approx.14.5 hours	Size with handle ^{*10}		Display and keyboard on one face: 230 (W) X 196 (D) X 393 (H) mm		
Weight with battery & tribrach ^{*10} Display and keyboard on ooth races. 250 (W) X 207 (D) X 595 (H) Hill Power supply Display and keyboard on on face: 6.8 kg (15.0 lb) Battery BDC72 Operating time (20°C) ^{*15} BDC72 Bottery BDC72 Approx.4 hours Battery (option) BT-73Q: approx.14.5 hours	Size with handle		Display and keyboard on both faces: 230 (W) X 207 (D) X 333 (H) mm		
Power supply BDC72 Li-ion rechargeable battery Operating time (20°C) ⁷¹³ BDC72 Approx.4 hours External battery (option) BT-73Q: approx.14.5 hours	Waight with battory & tribrach*10		Display and keyboard on one face: 6.9 kg (15.0 lb)		
Battery BDC72 Li-ion rechargeable battery Operating time (20°C) ⁷³ BDC72 Approx.4 hours External battery (option) BT-73Q: approx.14.5 hours	איכוצווג אאונו טמנוכו א מ נווטומכוו		Display and keyboard on both face: 70 kg (15.4 lb)		
Battery BDC72 Li-ion rechargeable battery Operating time (20°C) ^{*3} BDC72 Approx.4 hours External battery (option) BT-73Q: approx.14.5 hours	Dower curply		Uispiay and keyboard on both faces: 7.0 kg (10.4 IU)	
Battery BDC/2 Li-Ion rechargeable battery Operating time (20°C) ^{*3} BDC72 Approx.4 hours External battery (option) BT-73Q: approx.14.5 hours	Power supply	PDC72	1. Samaraharanah katuma		
Uperating time (20°C) BDC/2 Approx.4 hours External battery (option) BT-73Q: approx.14.5 hours	Battery	RDC/2	LI-IVII rechargeable battery		
External battery (option) B1-73Q: approx.14.5 hours	Operating time (20°C)	BDC/2	Approx.4 nours		
		External battery (option)	BI-/3Q: approx.14.5 hours		

SPECIFICATIONS

*1 IEc.002/5-1Ed.2U.2007 / FUA CURK 21 CURK 21 CURK 74T (104).01 and 11 *2 Coold conditions: No naze, visionility about 40km (25 miles), overcast, no softmianton. *5 Face time prism to the instrument during the measurement with the dataface at 10 m or less. *4 Face the reflective sheet target to the instrument. *5 With Kodak Gray Card White Side (90% reflective). When brightness on measured surface is 30,000 k. or less. Reflectiveless range/accuracy may vary according to measuring objects, observation situations and environmental conditions. *6 Measuring range: 0.5 to 200 m *7 Fastest time under good atmospheric conditions*2, no compensation, EDM ALC at appropriate setting, slope distance. *8 Average conditions: Slight haze, visibility about 20km (12 miles), sumy periods, weak scintillation. *9 Figures when the Auto Pointing beam strikes within 15° of the reflective sheet target. *10 Control panel and keyboard location may vary depending on region or model. *11 Usage approval of Bluetooth wireless technology varies according to country. Please consult your local office or representative in advance. *12 Paired with RC-5, with instrument height to be more than 1.5m, no obstacles (like building structures, trees or vehicles) causing interrupting/reflecting radio wave, few sources of radio emissions/interference in the near vicinity of the instrument, no rain. *13 Fine distance measurement (single) using Auto Pointing, repeated every 30 seconds

Standard package components

MS Main unit • Battery (BDC72) x 2 • Battery charger (CDC77) • Power cable (EDC113A/113B/113C etc.) • Stylus pen • Lens cap • Lens hood • Tool pouch • Screwdriver • Lens brush • Adjusting pin x 2 • Vinyl cover • Wiping cloth • Quick Manual • Standard package components • Precautions for Safe Operation • USB memory (Manual) • Export restrictions card (Be sure to read) • Laser caution sign-board • Carrying case • Carrying strap



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Your Local Authorized Dealer is:



Accuracy and Durability are Further Refined to Provide Highly Accurate Measurement

- Ultra High-precision Distance Measurement
- Precise Angle Accuracies 0.5" (MS05AXII) / 1" (MS1AXII)
- Auto Aiming Accuracy of 1"*
- Remote Control through on-line PC
- Exclusive Reflector Prescan technology
- Enforced Durability for Long Term Deformation / Monitoring Applications
- * When measured with standard prism

Accuracy and Durability are Further Refined to **Provide Highly Accurate Measurement**

For Monitoring

Engineering structures, such as buildings, dams, tunnels and bridges, can always be affected by movement caused by excavation, heavy construction and piling placement, in addition to natural hazards, such as harsh weather, soil movement, change of ground water level or any number of other factors. The ultimate goal in any project, at any job site, is to secure the safety of people and equipment, and therefore the saving of maintenance cost.

The MS series provides superior measuring precision and is equipped with environmental protection and various functions necessary in monitoring applications and therefore, can be utilize to configure a high-precision monitoring system.



For Industrial Measurement

MS05AXII, used with reflective sheet targets, can achieve sub-millimeter accuracy.

It is suitable, therefore, for measuring shape and alignment of large scale structures, such as various plants and bridges, as well as for precise measurements of ships, railroad cars, and airplanes.



For 1st order Survey

The MS series offers high-precision angle accuracy (MS05AXII : 0.5", MS1AXII : 1") which can be applied for a wide range of precise measurements.

Since it is equipped with an automatic tracking system, the high-precision robotic measuring station can be configured with a remote control system.



Ultra High-precision Distance and **Angle Measuring System**



Ultra High-precision Distance Measurement MS05AXII

MS05AXII Using reflective sheet targets, the MS05AXII provides sub-millimeter accuracy (0.5mm + 1ppm) in a range of up to 200m. MS1AXII

The reflectorless measurement range of the MS1AXII model is doubled to 400m (1,310ft.) with Kodak white side (90% reflective).

Advanced Angle calibration

Topcon advanced angle encoder technology with exclusive calibration system provides "best in class" angle accuracy, 0.5" (MS05AXII) / 1" (MS1AXII).

Adjusting mechanism for angle measuring

The biaxial level compensation mechanism has a wider adjusting range of $\pm 6'$ which is twice as wide, compared with previous models. This enables highly accurate measuring performance.

Superior Auto-Pointing Accuracy

The auto-pointing accuracy^{*} with the standard prism is 1" (1mm@200m), and 4" (1mm@50m) with a reflective sheet.

Auto-pointing accuracy is verified using the methods specified by ISO 17123-3.

Target Illumination Prisms or sheet target can be located easily in dim lighting conditions using the highintensity white LED built into the telescope. Upgraded durability Improved durability by changing and redesigning the assembling parts, especially for "24-7 monitoring

operation".

Communication port Weatherproof multi-port maintains IP65 protection even with an RS-232C data cable or an external

battery connected.



Key Features of MS Series for Monitoring Solutions



Remote operation by online system

A library of special control commands can be provided in order to establish remote operation functionality in your own monitoring system. *Please contact us for the details of the special commands.

Advanced Auto-Pointing Algorithm for multiple prisms

The MS series incorporats an advanced auto-pointing algorithm* optimized for monitoring applications. The MS series automatically sights the prism closest to the telescope center regardless of the distance from the instrument. This works even if multiple prisms or other reflective objects are in the field of view.

This feature dramatically enhances the reliability in periodic monitoring of predetermined prism locations.



* With a regular auto-pointing algorithm, the instrument normally sights the nearest target with the strongest reflection.

MS MEASURING





Bluetooth

Equipped with Bluetooth (Class 1) as standard, which enables communication over a long distance up to 600m³ * When used with RC-5 Remote Controller. The range can be subject to change depending on the obstacles between the instruments or any

environmental radio conditions,

Easy access to USB flash drive port

An operator can easily import, export data from the office to the field in seconds.



Control Panel Control panel with touch-screen display and alpha/numeric keyboard.

Reflector Prescan function^{*} for Monitoring Setup

This function is ideal for structural monitoring applications to make initial setup easy and fast.

The MS series automatically searches within the predetermined area to quickly measure the reflectors as initial positions for subsequent routine measurements.

This function works even in low light or dark conditions where the reflectors cannot be clearly seen by the human eye and provides greatly increased efficiency in initial reflector search.



*This function is not included in on-board software, and need to be implemented in user's own system using opened command



Dust and Water Protection IP65

Provides protection from dust and driving rain as well as other inclement weather conditions. Operates in temperatures from -20 to +50°C.