



ContourGT-K system configuration

(SRI Center for Physical Sciences and Technology procurement # P492-Ž2019, PPP 1.004)

Marketing PN	Description
GTK-A	<p>CONTOURGT-K AUTOMATED SYSTEM</p> <p>An innovative 3D surface microscope with high resolution surface profiling and analysis for a wide variety of applications. Similar components as CONTOURGT-K MANUAL with added features below.</p> <p>Standard Features Include:</p> <ul style="list-style-type: none"> - Vision64® Operation and Analysis Software: <ul style="list-style-type: none"> o Contour, 2D and 3D plots o Bearing ration, histogram, autocorrelation, power spectral density o 3D roughness parameters as per ISO 25178 o X and Y profile plots, poly-line profile plots, radial profile plots, roughness and waviness overlay profile, data levelling of profiles, profile export to .csv format o Interactive 3D display, including data illumination, shading, zoom and z-scale functionality o Automatic calculation of lost volume for tribology application o Automatic surface segmentation with separate island calculation such as Volume, area, depth/height, diameter, roughness. Principle applications are defect review, volume of anilox, corrosion pitting with possibility to identify >1000 individual regions in 1 dataset ... o Automatic line width analysis for trenches including automatic orientation of trench o Terms removal filters up to 6th polynomial order o Fourier and Gaussian regression filters (regular and Robust, up to 2nd order), statistic (window) filtering - PSI, VSI and VXI modes - Advance High Speed Autofocus - Accurate & Repeatable throughout a 10mm Scan Range - Patented Dual LED Illumination - Stitching software package - stitching of > 2000 images full resolution - Tip-Tilt in the system stage

Bruker Nano Surfaces

Atomic Force Microscopy
112 Robin Hill Rd.
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Tel: +1.805.967.2700
+1.800.873.9750

Bruker AFM Probes
3601 Calle Tecate, Suite C
Camarillo, CA 93012
Tel: +1.805.388.3326
+1.800.715.8440

Fluorescence Microscopy
3030 Laura Lane, Suite 140
Middleton, WI 53562-0677
Tel: +1.608.662.0022

Stylus and Optical Metrology
3400 E. Britannia Dr., Suite 150
Tucson, AZ 85706
Tel: +1.520.741.1044
+1.800.366.9956

Tribology and Mechanical Testing
61 Daggett Dr.
San Jose, CA 95134-2109
Tel: +1.408.376.4040
+1.866.262.4040



	<ul style="list-style-type: none"> - Operations, Maintenance, & Technical Reference manuals - Powered by a multi-core PC and Windows® 10 - 12-Month Warranty on all parts and labor - Conformance to standard Bruker factory acceptance tests <p>Added Features:</p> <ul style="list-style-type: none"> - AUTOMATED Z-axis focus - 6 inch /150x150 mm automated XY stage, positioning repeatability - 3 µm - XY scatter and XY Grid automation software package <p>Recommended:</p> <ul style="list-style-type: none"> - 50 µm step standard for scanner calibration - SiC Reference mirror for PSI Reference Calibration - Vibration Isolation feet <p>Must select Power, Monitor, Field of View, and Objective/Objective mount Options for a complete system</p>
GTK-ISO-FEET	<p>ISOLATION FEET</p> <p>Anti-vibration feet reduce the effect of environmental noise while optimizing the measurement conditions in a compact manner. DO NOT use these feet if you are placing the system on an anti-vibration table.</p>
GTK-220V-EU	<p>CONFIGURED FOR 220VAC, EUROPE/ASIA OPERATION</p> <p>Configures hardware for 220-240V, 50-60 HZ operation. Includes cables for standard 2-prong European outlets. Select this option for systems sold in Europe and Asia. Included in base system price.</p>
GTK-STD	<p>STANDARD RESOLUTION MONOCHROME CAMERA</p> <p>Optical Metrology Head</p> <p>Includes:</p> <ul style="list-style-type: none"> - 10mm vertical measurement range - 640x480 high speed camera, 100fps, 9.9µm sqr pixel - 1.0X FOV Lens - Up to 47µm/sec scan speeds - Included in base system price
GT-COMPUTER-ADV	<p>Advanced PC Configuration</p> <p>Dell Precision 5820 XL, Windows® 10 operating system, 3.6GHz processor, 16GB RAM, 2x1TB hard drive with RAID1 configuration. Advanced GPU Video Card. Included in base system price.</p>
FPD	<p>FLAT PANEL DISPLAY</p> <p>LCD flat panel monitor for data display. Price is in addition to base system price.</p>
GTK-JOYSTICK	<p>GT JOYSTICK CONTROLLER W/ XY & Z CONTROL</p> <p>Customized joystick with XY joystick and z-encoder knob. For use with GTK-A only. Contains EMO. Price is in addition to base system price.</p>
GTK-AUTO-FOV	<p>Automated 3 position FOV (1.0X + 2 Additional)</p> <p>1 position dedicated to 1X FOV (Included) and two positions can be configured</p>



GT-F0.55X	0.55X FOV MULTIPLIER TUBE 0.55X FOV multiplier tube reduces the objective magnification by 1/2, yet retains the lateral resolution of the objective. Price is in addition to base system price.
GT-F2X	2.0X FOV MULTIPLIER TUBE 2.0X FOV multiplier tube increases the objective magnification by 2, yet retains the lateral resolution of the objective. Price is in addition to base system price.
GT-TURRET-5B	Automated 5 Position Turret Motorized 5-position turret that uses a clean and quiet stepper motor/belt drive. Provides quick, efficient operation for use with all par-focal objectives. Price is in addition to base system price.
GT-O5X20%	5X INTERFEROMETRIC OBJECTIVE, 6.71MM WORKING DISTANCE 5X Michelson interferometric objective 6.71 mm working distance 20% reflectivity Parfocal when used with all other 'Parfocal' objectives Sample height must not exceed 4 inches (GT-K, GT-X) or 6.5 inches (GT-I) ESD Compliant
GT-O20X	20X INTERFEROMETRIC OBJECTIVE, 4.7MM WORKING DISTANCE 20X Mirau interferometric objective 4.7 mm working distance Parfocal when used with all other 'Parfocal' objectives Sample height must not exceed 4 inches (GT-K, GT-X) or 6.5 inches (GT-I) ESD compliant
GT-O50X	50X INTERFEROMETRIC OBJECTIVE, 3.4MM WORKING DISTANCE 50X interferometric objective with thermal stabilization 3.4 mm working distance Parfocal when used with all other 'Parfocal' objectives Sample height must not exceed 4 inches (GT-K, GT-X) or 6.5 inches (GT-I) ESD compliant
GT-8STEP	8um STEP HEIGHT STANDARD Etched silicon wafer calibrated step, mounted on a glass carrier. Provides high accuracy, excellent thermal stability, and a certificate of calibration. Price is in addition to base system price.
150-128	30 X 30 ISOLATION TABLE Isolation table reduces effect of surrounding environmental vibration, providing optimum conditions for measurement. HIGHLY RECOMMENDED IF 838-202 is selected. NOT RECOMMENDED IF 831-551 is selected should cause cancellation errors.

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