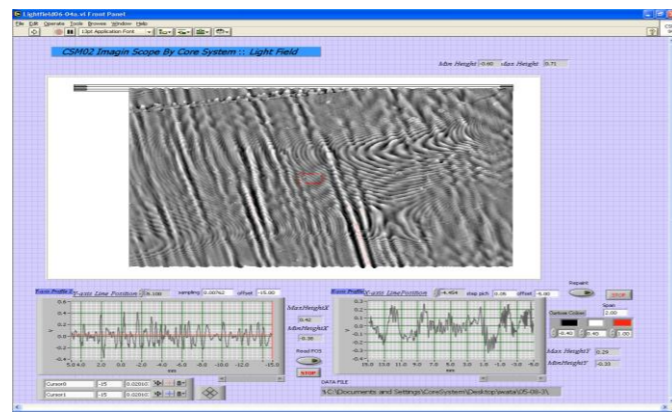


**Company Profile**

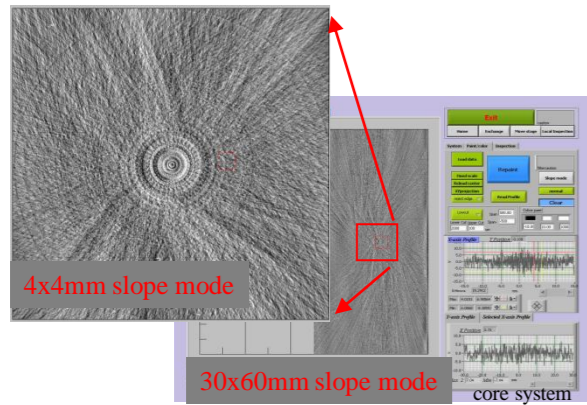
Company Name **CORE SYSTEM Corporation**  
 President & CEO **Masami ONODERA**  
 Established **27 June 1997**  
 Capital **¥54,000,000 yen**  
 Head Office **2-144 Nishimiyauchi Nagaoka Niigata  
 940-1162 JAPAN**  
 Tel: **+81-258-31-6233**  
 Fax: **+81-258-37-3744**  
 e-mail: **sales-1@csys.jp**  
 [URL]: **http://www.csys.jp**

Products 1. Laser Scanning Surface Analyzer "Nano Topograph"  
 for: Si Wafer, Compound Semiconductor Wafer,  
 Hard Disk, Thin Film, Resin Film,  
 2. Super Long Working Distance Microscope/CCD  
 Camera/Image Processing Software System

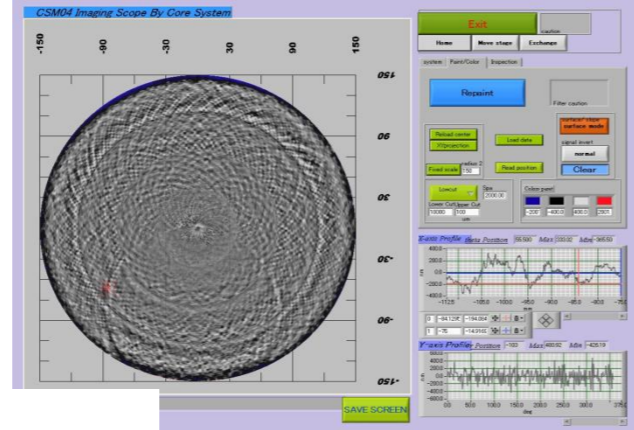
**Functional Coated Resin Film Surface  
 by Core System "CSYS"**



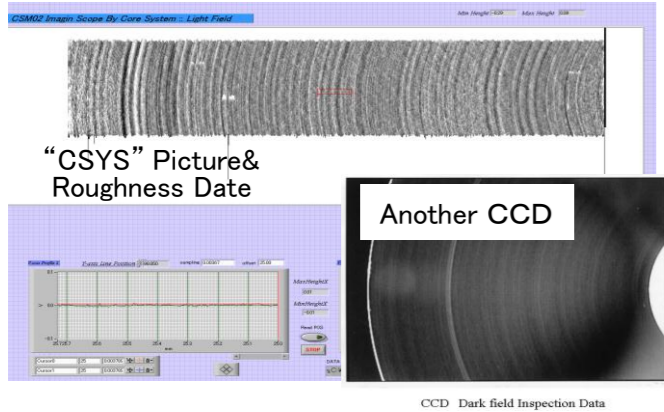
**Polishing Pattern Center Si wafer Surface  
 by Core System "CSYS"**



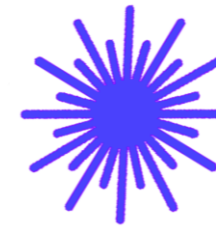
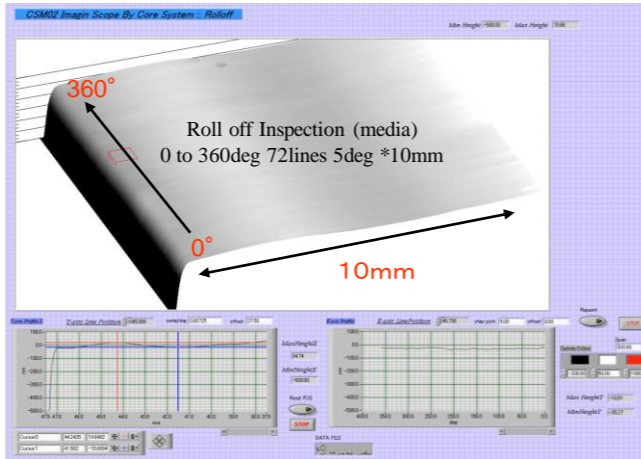
**Grinding Pattern Si Wafer Surface by Core System "CSYS"**



**Texture Pattern Hard Disk Surface by Core System  
 "CSYS" vs Another CCD Camera Picture**



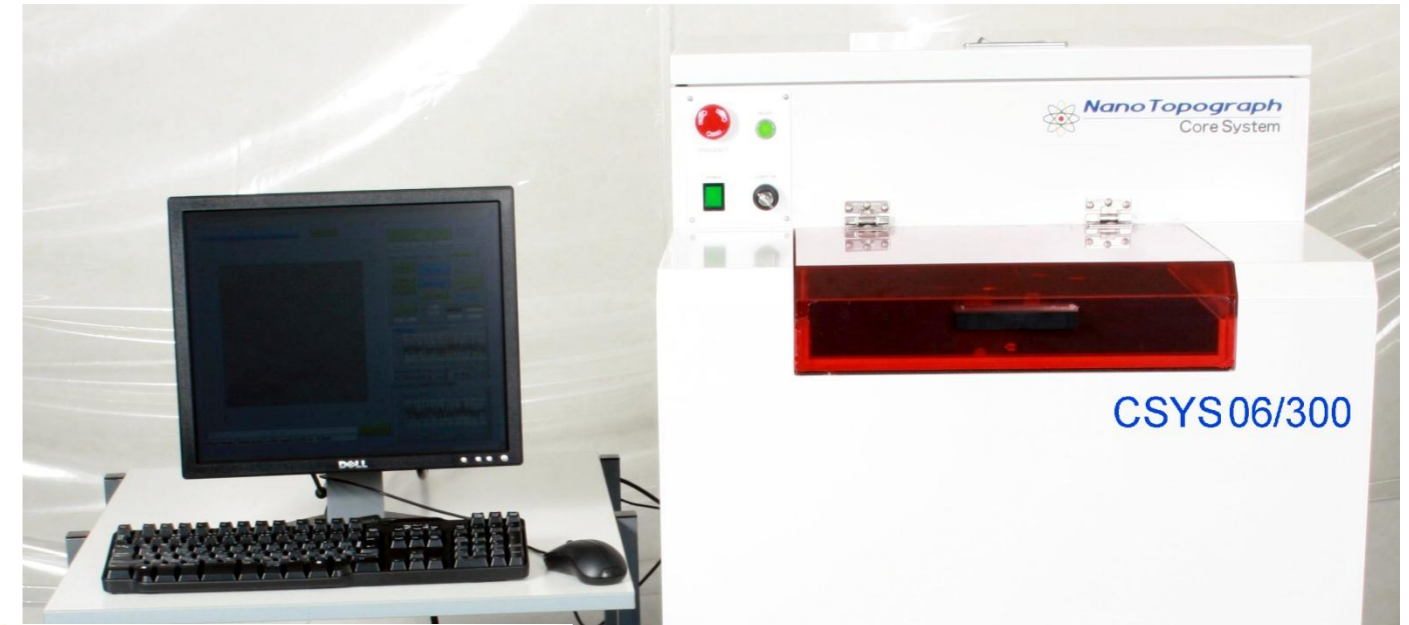
**Roll Off Form Hard Disk Edge by Core System "CSYS"**



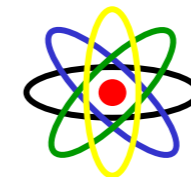
**Laser High Speed Scanning Surface Analyzer**

**Surface "Nano Topograph"**

**for: Si Wafer • Compound Semiconductor Wafer • Hard DISK •  
 Thin Film • Resin Film**



Patented



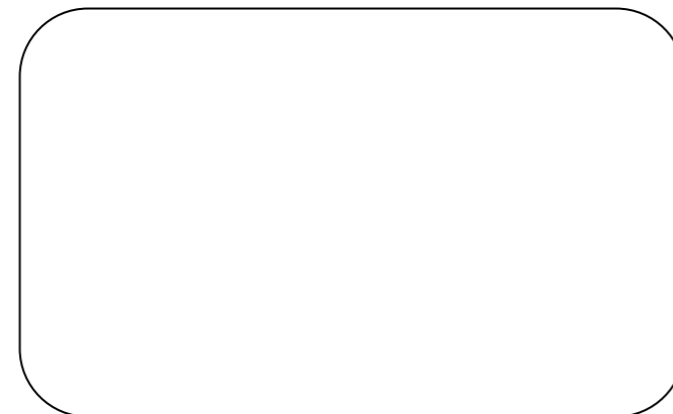
**Core System Corporation**

URL: <http://www.csys.jp>



**Core System Corporation**

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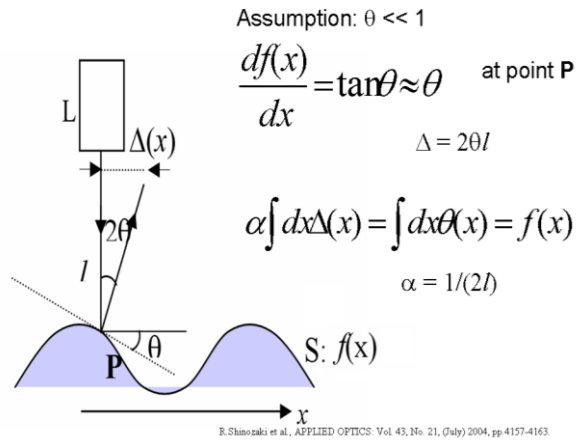


# Laser High Speed Scanning Surface Analyzer

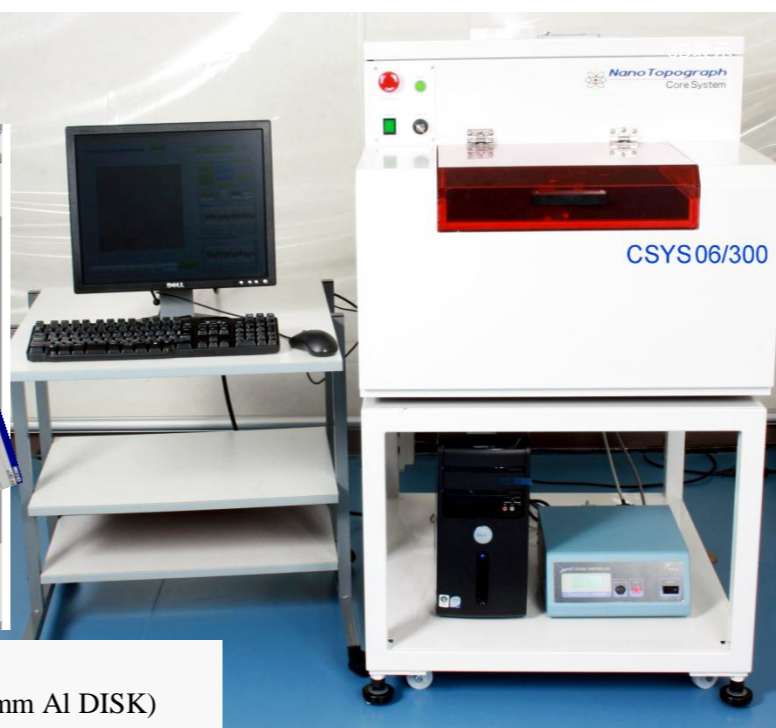
**【Applications】**  
 Mirror-Surface/  
 Thin Film, Spattered Surface  
 and Resin Coated Surfaces  
 Silicon Wafer, Hard Disk, LCD·FPD  
 Metallic Film, Functional Film  
 Rough Surface/ Copy-Drum

**【Feature】**  
 Non-contact Scanning Laser Inspection  
 Height resolution: 0.1 nm  
 No anti-vibration table is required  
 Particle inspection function  
 Wide Inspection area:30x30 mm  
 High Speed Scanning(0.5ms/line)

**【Principal】**



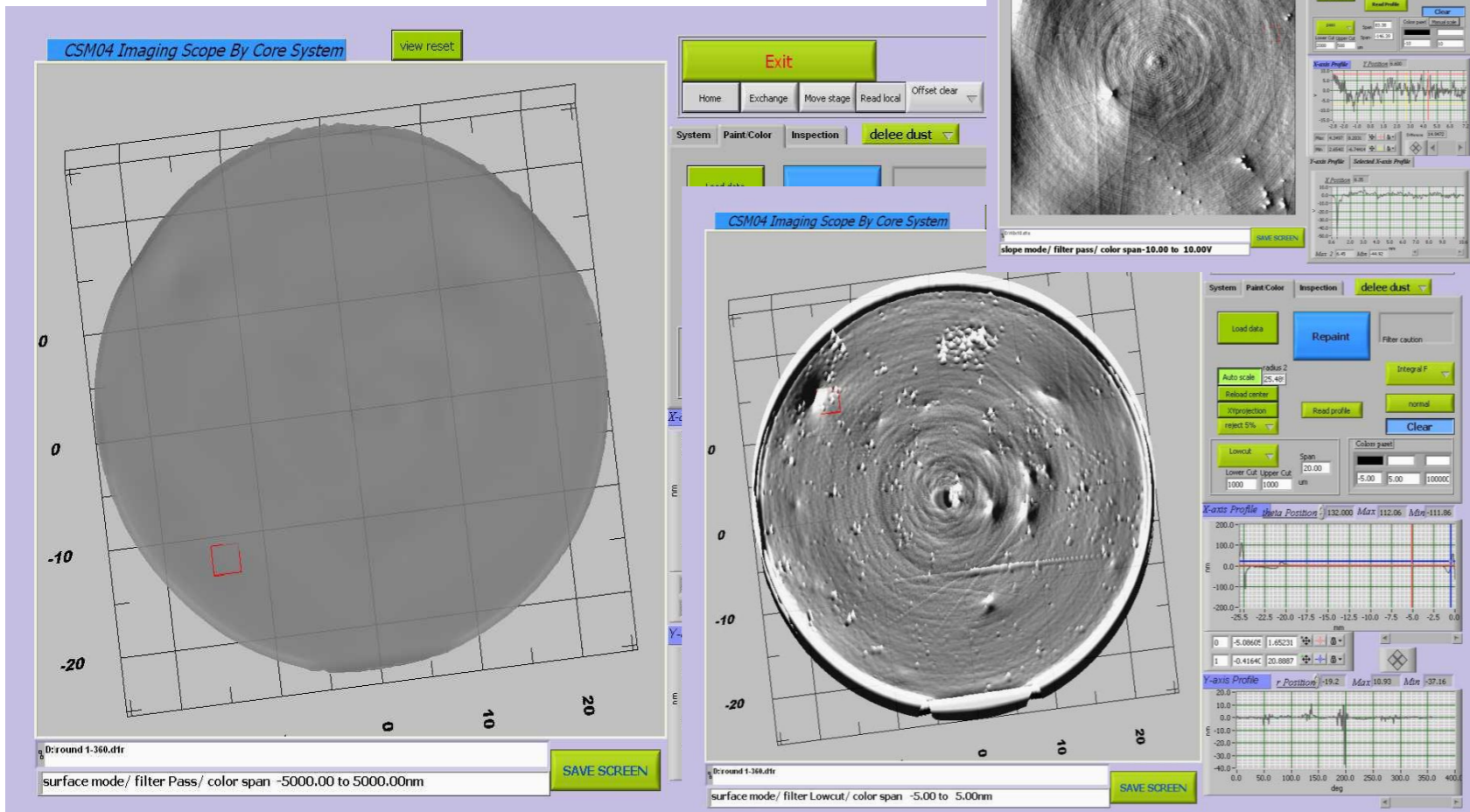
We can read by Core System "CSYS" CORE  
 Written bottom-side and read up-side inspection(by 0.8 mm AI DISK)



Model	CSYS10-B 10	CSYS10-B 10	CSYS 10-R 25
Optical unit			
Scan width	40mm	40mm	30mm
Scan ratio	30Line/sec	30Line/sec	30Line/sec
Sampling ratio	1~10MHz(3.9um)	1~10MHz(3.9um)	1~10MHz(3.9um)
Testing time	20sec	20sec	20sec
pitch/line	30x30mm/100um pitch	30x30mm/100um pitch	30x30mm/100um pitch
Soft wear			
Display	3D Surface	3D Surface	3D Surface
	Line Profile	Line Profile	Line Profile
Flatness mode	Surface Flatness	Surface Flatness	Surface Flatness
Microwaviness	Filtered Flatness	Filtered Flatness	Filtered Flatness
Slope mode	Slope Surface	Slope Surface	Slope Surface
Intend mode	Scatter Dencity	Scatter Dencity	Scatter Dencity
Stage Type			
Stage	500x500mm (φ450mm)	300x300mm (φ300mm)	200x200mm (φ200mm)
X axis	±250mm ( 0.010mm pitch)	±150mm ( 0.010mm pitch)	±100mm ( 0.002mm pitch)
Y axis	±250mm ( 0.010mm pitch)	±150mm ( 0.010mm pitch)	±100mm ( 0.002mm pitch)
θaxis	360° (0.0025°pitch)	360° (0.0025°pitch)	360° (0.0025°pitch)
power supply	AC100V±15% / 15A	AC100V±15% / 15A	AC100V±15% / 15A
Weight	100kg	70kg	50kg
Laser Light source	Violet Laser	Violet Laser	Read Laser
Wave length	405 nm	405 nm	655 nm
Power	20 mW	20 mW	30mW
Class	class 3b	class 3b	class 3b
Beem spot size	φ10um	φ10um	φ25um
Examination angle	Polish Surface ±0.2°	Polish Surface ±0.2°	Rough Surface ±2°
V sensitivity	0.1nm(1Å)	0.1nm(1Å)	1nm
H sensitivity	50mm	50mm	200mm

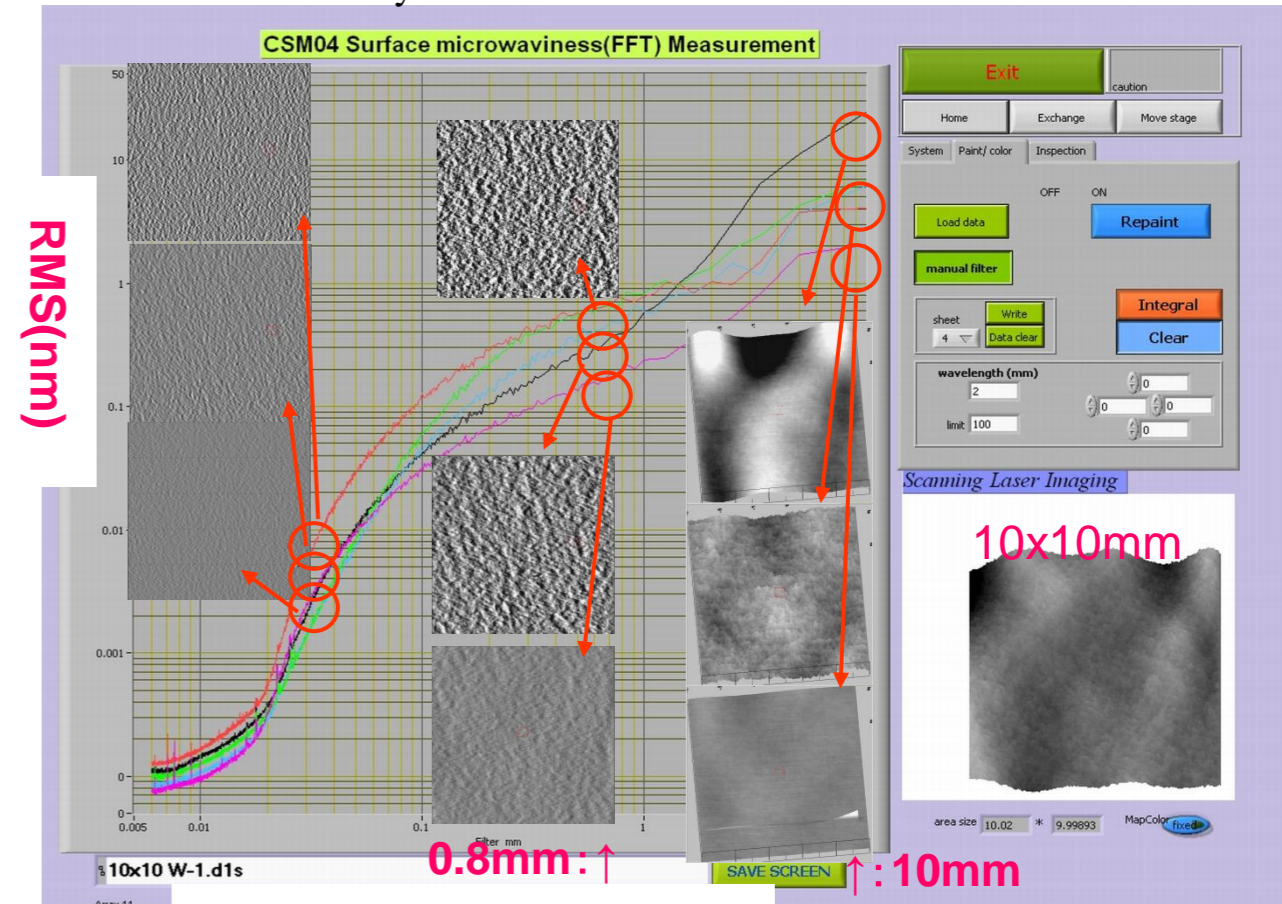
**Try Height Magnification : X1,000,000  
 Just Find New Surprise !!**

**Wide-area inspection**



Si Wafer Surface Inspection  
 Waviness

Si Wafer Surface Analyze Result with FFT  
 Analyze Area 10x10mm



**Filter Wave Length (mm)**

**Wide area inspection and FFT analyze**  
 You will find new discovery, wafer surface have big difference,  
 by polishing process, equipment and method