

ANALYZE TRIAXIAL I-V MEASUREMENT SYSTEM

FEATURE

- Low noise measurement, on ground system
- Using mainly triaxial shield system
- Manufacturing based 8" wafer size body

SPECIFICATIONS

Model : MST8000C

1. MST-8000C Main Body

A. 8 inch Low noise Triaxial Vacuum Chuck

- Leakage current level : ~50fA
(~ 50fA less than, +/- 10%)
- Low noise Triaxial Vacuum Chuck
(Al, Nikel Coating, Ceramic base,
Suss304 cover, on ground)
- From 3 to 8 inch
- On/broken wafer vacuum
- Chuck theta 15c fine control unit
: Micrometer 150-191 handle

B. Z Stage Up/down

- Stage plate up/down fine control 20mm
- Al 5051, "U" platen, 6 positioner up type
- Micrometer, fine control handle lift type
- Microscope Up/down lift

C. 8"x8" X-Y Stage Unit

- X-Y fine, speed motion knob control
unit and system large type
- LM Lead screw 2line
- Boll screw sub
- Coupling mount type
- Motion control buffer unit
- Resolution : Less than 5um
- Travel : 150mm (avail 8" expansion)

D. 2"x2" X-Y micrometer Translation manual type

E. Other units

- 6 positioner's vacuum switch : Left, right

2. Microscope - OLYMPUS Scope (90x)

- X-Y motion control : LM cross roller type
- Zoom Level type (1~4.5X)
- 2 eyepiece : 20X
Magnification : 90x
- Microscope beam splitter type,
Volume control
- CCD Camera c-mount, SANYO_6574A

3. Positioner body - HIGH RESOLUTION : 1um

- ~50fA Holder
- Manipulator high resolution type
- LM cross roller type
- X/Y/Z fine micrometer control knob
- Submicron geometric vacuum base type
- Resolution : 2um
- Travel : 15mm
- Vacuum on/off switch

4. Probe Holder (50 fA less than, on ground)

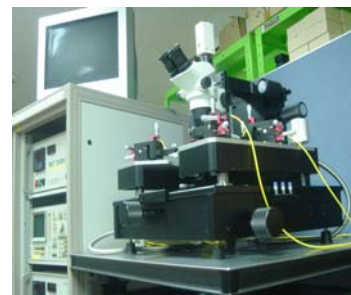
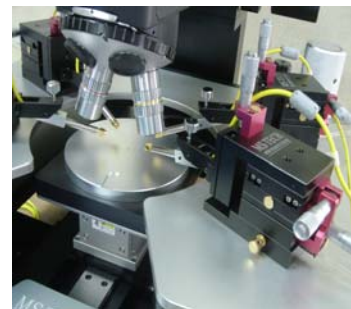
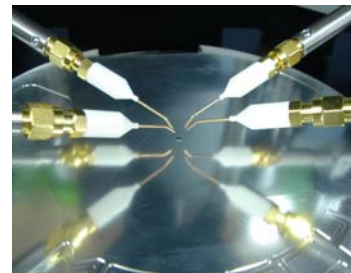
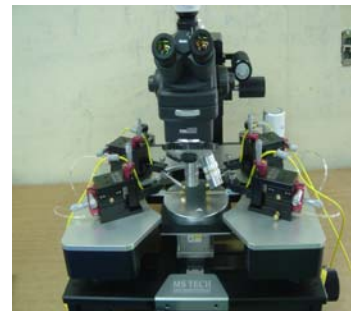
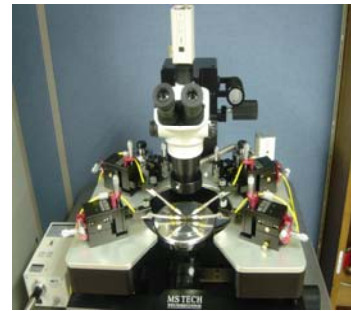
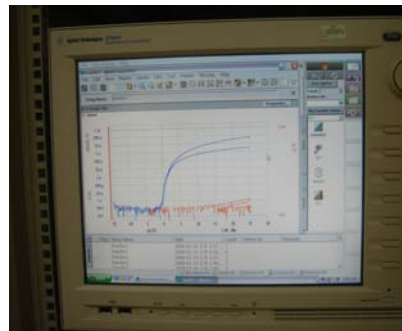
- Triaxial adaptor, cable 3 M
- Low noise holder (~ 50fA level)

5. probe tip

- MST_Gold Spring Tip 1um, 10ea
- MST_T_0.5um 10ea

6. Vacuum pump

- Applied a exclusive laboratory
- 620mm/Hg (for laboratory / low noise)



OPTION

7. Dark shield box

- Dimension : 700 x 700 x 700
- Plate 4 TRX, 2 BNC

8. Vibration_Desk Type

- Dimension : 550 x 550 x 50

9. Hot Chuck & Controller

- Hot T emp : ~ 300c
- Temp Resolution : ~ (0.1c ~ 1c)
- PC Control S/W, USB Interface.
- Temp Sweep : 20 Sector Data
- Circuit Protect 10A, Power 220V

REMARK

- Low Noise Guarantee : less than 50fA
- Available more condition in good environment : less than 50fA
- Warranty 3 years
- Customize application