AIOLOS
Wafer level test handler for environment sensors

Pressure  ›
Humidity  ›
Temperature  ›
Combo  ›

AIOLOS - an automatic precision prober inside chamber
› a combination of environment stimulus chamber, integrated tester electronics, temperature chuck, automatic material handling and Sequencer program for handler & tester control
› structure provides stable and lightless testing environment
› versions with high precision pressure controller available

AIOLOS - for WL-CSP environment applications
› for WL-CSP pressure sensors, humidity and gas sensors - testing on dicing tape
› also for bare die and traditional packages (LGA, QFN, LCC, etc.)
› up to 8" film frames
› high flexibility - no need for product specific tooling

AIOLOS for very high UPH and lowest Cost of Test
› very high units per hour rate (120 000 UPH without test time)
› std up to 64 DUTs parallel other TBN
› short and smooth handling process - zero jam rate - high yield
› cameras & active alignment for compensation of dicing process inaccuracy
› short process - no pick & place process before final packaging
› very low maintenance need
› high uptime
› low capex - COT below 1 cent
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MAIN FEATURES

PROBER PROPERTIES
› X, Y- mechanics range 6" or 8" wafer
› Theta correction range ± 5°

VERSIONS
› 6" and 8" versions available
› Barometric chamber 50..150 kPa abs
› Mid-pressure chamber 50..1500 kPa abs
› Other pressure ranges on request

OPTIONS
› Pressure fine controller
› Humidity stimulus unit
› 20 ...80 % RH
› Temperature Chuck
› ambient ... ± 85 deg C
› Other stimuli on request
› Automatic wafer loading
› Wafer ID-reader
› Wafer magazine ID-reader

TESTER AND USER INTERFACES
› 19" 6U slot for ATE (others on request)
› TCP/IP remote control interface
› 17" color touchscreens (2), keyboard, mouse and joystick for prober manual control

INFRASTRUCTURE
› Dimensions WxDxH 2,5 x 1,1 x 2,1 m
› Weight (fully equipped) 1200 kg
› Pressurized air >6 bar
› Vacuum <500 mBar abs
› Power (Europa, China) 400 V / 16 A / 50 Hz
› Option for power (US) 480 V / 16 A / 60 Hz

AIOLOS automatic prober mechanics
AIOLOS humidity stimulus unit
AIOLOS dimensions