

A unique solution for testing MEMS Microphones

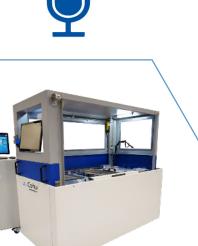
All-in-one system for testing, calibration, final inspection and packaging

- Architecture isolates the test of MEMS from outside noise and vibration, significantly increasing test accuracy and output
- No special requirements for anechoic rooms or chambers on the production floor for either the handling system or the tester
- Signal-to-noise-ratio (SNR) testing up to 78 dB and up to 10K UPH
- Scalable in production from 16 up to 96 sites in parallel
- \bullet Sense+ $^{\text{TM}}$ system features all the capabilities of a turret automation platform
- μ -senseTM test solution is independent of the Sense+TM system with maximum freedom of movement
- NV-Core™ Inspection System provides full final inspection and unit-level traceability from tray or bowl input to tape & reel output
- DI-Core™ Data Intelligence System providing real-time equipment monitoring and data analytics for increased productivity

Sense+ with µ-sense MEMS microphone test solution







μ-sense test solution can be used standalone Engineering

Significant improvement in test accuracy and parallelism

- Sense+ system can operate on a standard noisy test floor with no need to stop handling for idle or silent mode during test
- \bullet μ -sense test solution isolated acoustic measurement unit (AMU) conducts the tests in a low sound environment
- ≥140 dB sound pressure level (SPL) proven repeatability tests
- Can be utilized as incoming quality control at final assembly locations
- 32-position turret test and scan complete finishing solution with full 6-sided optical inspection
- Solutions for different packages across different loading media, bowl, and tray testing
- Flexibility to reconfigure the Sense+ automation platform to test different sensors; inertial, microphone, pressure⁽¹⁾, and magnet⁽¹⁾
- μ-sense test solution can be mechanically de-coupled from the Sense+ system for use as a standalone unit for engineering in a lab environment or low-volume manufacturing

NV-Core™



Inspection System

- Full 6-sided post testing die inspection
- Micro-scale defect detection down to 50 μm
- Vision assisted accurate die placement
- Completed unit-level traceability from bowl or tray input to tape & reel output
- Pre-tape pocket integrity, in-tape device quality, and post-sealing quality inspection capabilities



DI-Core™

Data Intelligence System

- Real-time equipment monitoring and management
- Preventative maintenance
- Central recipe management
- Optimized yield and defect detection through real-time Artificial Intelligence inspection
- Knowledge database and unified reports



All specifications are subject to change without notification and are for reference only. For detailed performance specifications, please contact Cohu.