

CLEAN ROOM MANUFACTURING FOR OPTO-MECHANICAL ASSEMBLIES



PROGRAM HIGHLIGHTS

Clean room manufacturing capability is a requirement for assembly of electronic and mechanical optical viewing/measurement components. Cleanliness is a requirement where assembly of critical components such as lens assemblies and electromechanical interfaces such as surface capacitive touchscreens in a clean environment are crucial to proper functionality. Airborne particles present on lens that measure in pixels will affect the quality of the viewed picture as well as touch sensitivity on touchscreen assemblies.

A customer designed a product that had a complex design assembly requirement of 2

critical components for Tablet Assembly – LCD Touchscreen and 2MP Camera Lens Module assembly. The LCD Touchscreen is integrated into the mechanical housing for the tablet. The 2MP Camera Lens Module is assembled to the board.

SOLUTION

A clean room, class 1000 was used to incorporate the appropriate controls for component handling, cleanliness protocols (personnel, space, components, fixturing and instrumentation), particle detection, humidity controls, ESD protection and assembly using laminar flow workstations.

Dependable Quality

Vexos achieves the highest quality levels by utilizing the latest equipment, processes, quality standards and certifications across the organization; to enable a flawless launch of each individual program.

- Rigorous selection of sub-contractors or partner factories
- Performance evaluation and monitoring through regular audits of the factories
- Continuous training for personnel at all levels
- Document control to safeguard your data and release of technical documents
- Sample approval process including production part approval process (PPAP)

Certifications

- ISO 9001:2015
- ISO 13485:2016
- ISO 14001:2015
- FDA registered
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- RoHS and Non-RoHS
- IATF 16949:2016
- CGP certification

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