CASE STUDY

VEXOS.COM

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 14001:2015
- RoHS and Non-RoHS
- IATF 16949: 2016
- OHSAS 18001:2007
- CGP certification

Markets We Serve

- COMMUNICATIONS
- INDUSTRIAL
- MEDICAL
- SMART GRID
- SECURITY
- AUTOMOTIVE
- COMPUTING
- AVIATION
- DEFENSE SPACE
- HVAC

Locations

USA

LAGRANGE, OHIO, USA
MANUFACTURING FACILITY
110 Commerce Drive, LaGrange, OH 44050, USA
+1 440-284-2500

CANADA

MARKHAM, ONTARIO, CANADA
MANUFACTURING FACILITY
195 Royal Crest Court, Markham, Ontario, Canada L3R 9X6
+1 905-479-6203

EUROPE

MALMÖ, SWEDEN
EUROPEAN SALES OFFICE
WTC Building, Skeppsgatan 19, SE-211 11 Malmö, Sweden
+46 705 48 26 59

ASIA

DONGGUAN, CHINA
MANUFACTURING FACILITY
Block A, Plainvim Industrial Park, Dongkeng Avenue, Dongkeng Town
Dongguan City, Guangdong, PRC, 523455
+86 769 8101 5368

HO CHI MINH CITY, VIETNAM
MANUFACTURING FACILITY
Floor 4th, Standard factory B, Tan Thuan street, Tan Thuan EPZ, Tan Thuan Dong ward, District 7, Ho Chi Minh City, 72909, Vietnam
+84 28 3636 2939

HONG KONG
ASIA LOGISTICS
Flat A, 1/F Wing Tai Centre, 12 Hing Yip Street
Kwun Tong, Kowloon, Hong Kong
+852 2304 7900

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