## **COMPONENT STORAGE AND HANDLING GUIDELINES 2024**

# COMPONENT STORAGE AND HANDLING G

NaviFloor Robotics, Inc.

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#### 1. PURPOSE AND SCOPE

1. This document establishes mandatory guidelines for the storage, handling,

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2. These guidelines apply to all NaviFloor Robotics facilities, employees, co
2. DEFINITIONS
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1. "Sensitive Components" refers to LiDAR sensors, optical systems, calibra
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2. "Storage Area" means any designated space within NaviFloor facilities us
- 3. "ESD-Sensitive" refers to components susceptible to damage from electro
3. ENVIRONMENTAL CONTROL REQUIREMENTS

2 -
1. Temperature Control
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Primary storage areas must maintain temperature between 18°C and 24°C (6
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Temperature variation shall not exceed ±2°C within any 24-hour period
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Continuous monitoring and logging required with automated alerts for out-o
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2. Humidity Control
-
Relative humidity must be maintained between 35% and 65%
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Maximum humidity variation of $\pm 10\%$ within any 24-hour period

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Desiccant cabinets required for moisture-sensitive components
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3. Clean Room Standards
-
Class 1000 (ISO 6) clean room conditions required for optical component ha
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HEPA filtration system maintenance schedule per Appendix A
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Monthly particulate testing and documentation required
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4. STORAGE CLASSIFICATION AND SEGREGATIO

1. Components must be segregated and stored according to the following cla
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Class A: High-value LiDAR and optical systems
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Class B: Electronic control modules and circuit assemblies
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Class C: Mechanical components and structural elements
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Class D: General inventory and non-sensitive items
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2. ESD Protection Requirements
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ESD-protected workstations with continuous monitoring
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Mandatogy use of grounded wrist straps and ESD-safe footwear
-
Quarterly testing of all ESD protection systems
5. HANDLING PROCEDURES
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1. Personnel Requirements
- Completion of Component Handling Certification Program required
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Annual recertification and quarterly safety reviews
-
Documented training on specific handling procedures for each component cl

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2. Transportation Guidelines
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-
Use of designated ESD-safe carts and containers
-
Maximum stacking heights per component type (reference Appendix B)
-
Mandatory use of shock indicators for sensitive components
6. QUALITY CONTROL AND DOCUMENTATION
1. Receiving Inspection
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Visual inspection requirements per component class

- - 7 Documentation of shipping condition and packaging integrity
Verification of environmental exposure indicators
2. Storage Documentation
Daily environmental condition logs
Component location tracking system maintenance
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### 7. EMERGENCY PROCEDURES

Monthly inventory reconciliation requirements

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1. Environmental Control Failure
-
Immediate notification to Facility Manager and Quality Control
-
Implementation of backup environmental control systems
-
Component assessment and documentation procedures
-
2. Contamination Events
-
Containment and assessment protocols
-
Documentation and reporting requirements

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Decontamination procedures per component class

## 8. COMPLIANCE AND AUDIT

1. Internal Audits

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Quarterly storage condition audits

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Semi-annual handling procedure compliance reviews

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Annual comprehensive system audit

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#### 2. Documentation Retention

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Environmental monitoring records: 3 years

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Training certifications: Duration of employment plus 2 years

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Incident reports: 5 years

#### 9. LEGAL DISCLAIMER

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## 10. DOCUMENT CONTROL

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