



INSPECTION PLANNING

LCD Quality Assurance Overview

Public description of LCD inspection planning, evidence and release controls without internal acceptance thresholds.

Scope Display module, backlight, FPC, connector and visible surfaces	Basis Approved drawing, specification, limit samples and quality plan
Stages Incoming, in-process, final and project-specific qualification	Evidence Traceable results, equipment status and disposition records

Numeric cosmetic and defect acceptance limits remain controlled by the customer specification, approved samples and project quality plan.

1. Quality Control Flow



2. Inspection Groups

Group	Inspection intent
Identification	Part, revision, lot, orientation, labels and traceability
Mechanical	Outline, thickness, datums, connector and assembly features
Electrical	Power, interface, display patterns, backlight and abnormal behavior
Optical	Brightness, uniformity, color, contrast and response as specified
Cosmetic	Visible particles, scratches, edge conditions and display defects



METHODS AND EVIDENCE

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3. Cosmetic Inspection Definition

Definition	Project requirement
Inspection zones	Separate active, viewing, border and non-visible areas
Display state	Define powered pattern, backlight state and background
Viewing condition	Lighting, distance, angle and inspection time
Defect classes	Define point, line, scratch, contamination and edge conditions
Limit samples	Identify approved physical or image references and revision

4. Measurement Controls

Control	Required evidence
Equipment	Suitable range, resolution and current calibration status
Method	Named procedure, fixture, pattern and environmental condition
Sampling	Project quality plan or agreed inspection frequency
Result	Measured value or observation with clear pass/fail disposition
Traceability	Link result to part, lot, operator, date and equipment

Internal work instructions and concession rules are not public product specifications.



RELEASE AND REPORTING

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5. Release Record

Record group	Content
Inspection summary	Scope, sample quantity, methods and overall status
Findings	Characteristic, evidence, severity and affected quantity
Disposition	Accept, rework, return, deviation or reject
Approvals	Required quality, engineering and customer authorization
Attachments	Photos, data files, certificates and test reports

6. Change and Escalation Controls

- Review material, process, tooling or source changes before implementation.
- Escalate repeated or systemic defects through corrective-action processes.
- Preserve approved limit samples and inspection criteria under revision control.
- Do not convert internal allowances into public product claims.

Final acceptance is governed by the approved project quality plan.