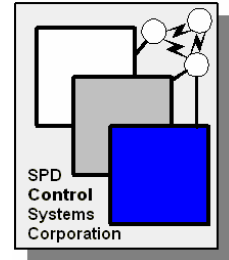# Recognition

Intelligent Test System

From SPD Control Systems Corporation (SCSC)

SPD Smart Glass
QA Test System

Recognition, by SPD Control Systems Corporation (SCSC), is a customizable test tool for verifying the quality of SPD Smart Glass samples for transmittance and electrical characteristics. Each **Recognition** system is intended to be customized for each customer's exact needs.

Please send your SPD testing requirements and the number of systems you need. We will then provide you with a comprehensive proposal satisfying your requirements.

Recognition can be used at various stages of SPD Smart Glass manufacturing,
- Film Production
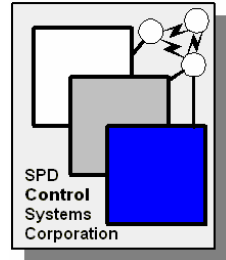- Film Lamination
- Window Construction

Standard Features
- Automatic and manual testing
- PC-based Automated Test System with SPD Controller
- Tests multiple samples simultaneously
- Tests are setup and monitored from the SCSC Test Program Console
- Exercises full capabilities of SPD samples:
  - Drives Cyclic Burn-it Tests
  - Tests Light Transmittance range
- Testing uses a known calibrated light source and sensor so that film functionality between various production runs can be empirically tested and documented.
- Detects Open and Short Circuit conditions
- SPD samples can be tested in installed conditions
- Maintains a Log of all events during test
- Measures Time-to-Clear (TTC), Time-to-Dark (TTD) Performance
- Customizable Profile Reports for each SPD test sample
- Historic reports per lot that provides traceability for the manufacturer
- Upgradeable and expandable as needed for your future requirements

Recognition

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Specifications

- Maximum Number of Samples per Unit: 8
- Maximum Size per sample: 1.5 M²
- Output Voltage: 10-120 VAC RMS
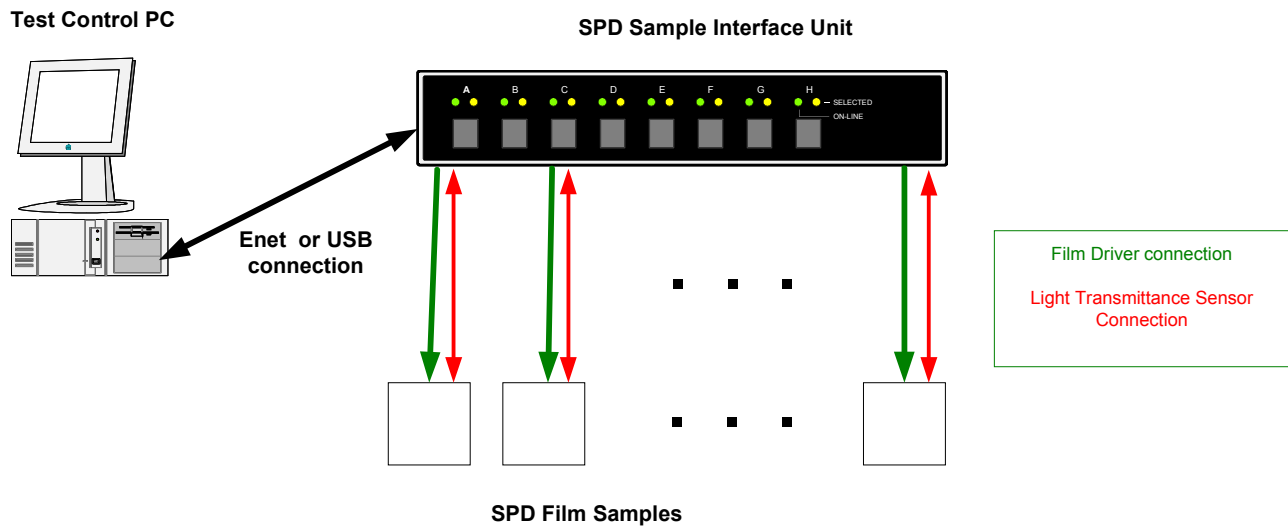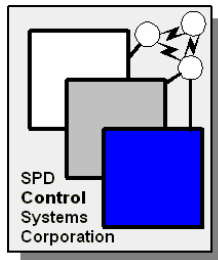- Output Frequency: 30 Hz to 400 Hz

Test Control PC

SPD Sample Interface Unit

Enet or USB connection

Film Driver connection

Light Transmittance Sensor Connection

SPD Film Samples

Figure 1 - System Configuration

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