

COMMERCIAL DISPLAYS ANSI/UL 970 COMPLIANCE

Transitioning Retail Fixtures & Merchandise Displays to the New Standard

ANSI/UL 970 for Retail Fixtures and Merchandise Displays is a new standard that combines two previous standards to offer a streamlined path for safety evaluation and product certification.



Transition to ANSI/UL 970

ANSI/UL 970, published in February 2020, combines requirements from ANSI/UL 65 (Wired Cabinets) and ANSI/UL 962 (Household and Commercial Furnishings). The new standard includes updated requirements for commercial displays, showcases, and temporary displays including those incorporating lighting, motors, and sensors.

Effective Date

ANSI/UL 970 has an effective date of **February 20, 2022**. All products currently certified to ANSI/UL 65 and ANSI/UL 962 must be evaluated and transitioned to ANSI/UL 970 by this date.

Impact to Manufacturers

Some products previously certified to ANSI/UL 65 or ANSI/UL 962 will require re-evaluation to comply ANSI/UL 970. For products certified to ANSI/UL 65, retesting will likely be required.

Details on new and revised requirements are outlined on Page 2.

Scope Expansion

The new standard covers more product types that those included in the previous standard(s).

ANSI/UL 65 covered the following wired cabinet product categories:

- Display and showcases in ordinary locations with electrical wiring with or without illumination
- Special purpose cabinets with electrical wiring with or without illumination
- Did *not* cover bathroom cabinets, cabinets to be used with refrigeration, or cabinets meant for electrical enclosures

ANSI/UL 970 covers more specific items, such as:

- Shelving units, point-of-sale (POS) units, motorized displays, hanging displays, wall systems, showcases, display cases, checkout stands, and product platforms
- Temporary displays
- Units that may be powered by primary or secondary batteries

Recommended Next Steps

We recommend manufacturers contact their third-party safety compliance and certification partner to review the following:

- **New Products**
Immediately begin evaluating new products to ANSI/UL 970. This prepares you for a seamless compliance transition when the new standard comes into effect in 2022.
- **Existing Products**
Review all existing products prior the effective date to determine if products currently certified to ANSI/UL 65 or ANSI/UL 962 comply with the new or revised ANSI/UL 970 requirements. Some products may require re-evaluation.
- **Certification Records**
Immediately review current listings to identify any reports or products that are no longer active and should be removed. Intertek can support clients with this process to identify cost savings and improve efficiency.



Construction Review

ANSI/UL 970 includes all requirements from ANSI/UL 65 and adds the following requirements for evaluation:

- Updated and additional standard references for specific components (motors, batteries, etc.)
- Enclosures and guards, especially regarding moving displays and those with extendable parts
- Updated corrosion protection regarding dry and damp locations
- Operator-attended products
- Parts subjected to pressure (factory seal systems and systems with pumps)
- Flammability for plastics and upholstered units
- Water shields

Mechanical Testing

ANSI/UL 970 requires the following additional mechanical testing:

- Conditioning of polymeric components and components attached by adhesives (includes gaskets)
- Loading and strength
- Stability
- Mounting, anchor and securement
- Glass-impact
- Wheel and roller securement
- Hydrostatic pressure
- Entrapment force and operator attended
- Tightening torque testing
- Portable display with liquid drop
- Mechanical connector

Electrical Testing

ANSI/UL 970 requires the following additional electrical assessments:

- Leakage current test
- Starting current test
- Input test
- Temperature test
- Strain relief
- Battery-operated display discharge and battery installation tests
- Conductor cycling endurance (for wiring that will be subjected to movement)
- Dielectric voltage withstand
- Printed wiring board testing
- Motor testing (motor overload and locked rotor)



- Abnormal testing (continuous operation, output or display interconnection, cooling fans and blowers, and overlamping)
- Lamp drape test
- Flooding and spillage testing
- Upholstered display with heating pads
- Magnetic field testing
- Environmental and thermal conditioning
- Rain and sprinkler testing

Manufacturing & Production Line

ANSI/UL 970 also includes the following requirements for manufacturing and production line testing:

- Grounding continuity
- Polarity
- Dielectric voltage withstand

Related International Standards

Most countries do not have specific standards for commercial displays. These products are instead covered under electrical codes such as Canadian CSA C22.2 No.0 or the IEC 60335-1 international standard.

Intertek's experts can craft a customized compliance plan to address the requirements of any global market.

Our Approach

As the technology and design for these products evolves, we encourage clients to proactively incorporate requirements for product safety, as well as brand and retailer requirements, into their new product development process.

Our experts support a full range of services to help you bring quality products to global markets including human-centric assessments, risk mitigation, design refinement, competitive benchmarking, product testing, and ETL certification.

Intertek has industry-leading expertise and capabilities across a global network, and direct involvement with industry committees and standards development, to help manufacturers meet the unique demands for brands and retailers and succeed in this dynamic market.

About Intertek

Intertek is a leading Total Quality Assurance provider to industries worldwide. Our network of more than 1,000 laboratories and offices and over 46,000 people in more than 100 countries, delivers innovative and bespoke Assurance, Testing, Inspection and Certification solutions for our customers' operations and supply chains. Intertek Total Quality Assurance expertise, delivered consistently with precision, pace and passion, enabling our customers to power ahead safely.

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