



## Automatic Testing Equipment

The ATE (automatic testing equipment) is a patented testing station, designed to help partners test liquid crystal films before and after the lamination process.

This advanced and easy to use system guarantees the fabrication process and ensures production of the highest quality LCG ® for customers worldwide.



Fully equipped with software, hardware, optical and visual evaluation tools, the ATE brings a complete solution, covering the most important parameters of LCG ® fabrication.

- ✓ **Electrical properties:**  
current and power consumption
- ✓ **Optical properties:**  
light transmittance and haze
- ✓ **Mechanical properties:**  
film dimensions

## Technical Specifications

Gauzy's ATE includes a glass inspection table and a PC rack with the following technical specifications:

- Maximum load weight: 250kg
- Dimensions with extensions: 282 x 151 x 100 cm
- Led type: 20w/m cold white on aluminum stripe
- Led PS input: 110-240VAC, 50-60Hz, 2A
- Led PS output: 12VDC, 8.33A, up to 100W
- LC Film output voltage: Square wave 70VAC
- DC output voltage: 0 VDC, guaranteed by design

# Key Features

## User Friendly

Automated for easy testing of LC films before and after lamination in glass.

## Power Ramp-Up

Controlled power ramp-up to extend the film lifetime by blowing possible shorts caused by processing and lamination.

## Large Panel Support

Holds glass panels up to 3.5m x 1.8m.

## Full Film Testability

Measures current consumption, power consumption per sqm, light transmittance, and haze.

## Film Protection During Testing

Including over voltage protection to shield the film from any transient in the main AC network and DC blocking to guarantee the film is powered without any DC component in the voltage supply.

## Built-In Backlight

Facilitates visual inspection with a built-in LED backlight.

## Fully Equipped

Includes computer cabinet, windows PC and monitor along with proprietary optical and electronic testing tools.

## Online Synchronization

Pre and post lamination test results are automatically transmitted to Gauzy HQ for logging and quality review.

## Detailed Reports

All information and test results are documented in a detailed reporting system with back-logging.

## Gauzy Support

Complete ATE installation and training, technical support and product warranty.



## Easy to Use Interface with Detailed Reports and Tracking:

- Pre-Lamination Testing (film)**  
 Extensive, automated series of tests performed on the film, based on dimensions and busbar configuration.
- Post-Lamination Testing (LCG®)**  
 Detailed reports are generated and adjusted optical tests are performed on each laminated LCG® panel.
- All-In-One SW & HW Testing**  
 Consists of initial power ramp-up, electrical current & consumption measurements, and visual & optical inspection.

