

Model LTI-2100 Optional Equipment

Get the most from your shearography camera with LTI accessories, engineered for the NDT professional.



Ruggedized Field Controller RC-2100

For use in the field, hangar or factory, the RC-2100 Ruggedized Controller provides outstanding protection for the shearography camera control electronics and built-in Panasonic Toughbook laptop. With no through-shell perforations, the RC-2100 protects contents from water intrusion (it floats), dust, oils, mist or other contaminants. The engineered internal airflow ensures cooling of electronics operations at temperatures to 110°F (43°C).

Dimensions/Weight: 19.8x16.0x8.0 in. (50x40x20 cm) / 12 lbs (5.5 kg)



Focusing Monitor FM-2100

The camera-mounted FM-2100 provides precision camera framing and focus for the very best shearography images. A full HD 1920x1200 IPS, with 4K HDMI input from the 2100 control computer, the 7-inch (17 cm) diagonal LCD screen provides 2200nit brightness. The FM-2100 includes the mounting bracket, a 16-foot HDMI cable, and power cable for connection to the 2100 Controller.



Thermal Stress Unit and Software TES-200

Thermal stress shearography is a powerful NDT method. Over decades of use, LTI has optimized the TES-200 to provide the best shearography data and ease of use. The dual focusing 2 kW quartz lamps provide fast (Dirac) heating of the sample surface. The 3D AM variable speed air blowers (3.0 to 6.0 m/s @ 1 cm) have internal guide vanes to direct laminar air flow to the test part surface, which eliminates the noise effects of warm air currents from shearography images. The induced vibration from the blowers is less than 1×10^{-5} m/sec². The TES-200 includes dual thermal lamps with blowers, control software, mounting hardware and cables for both simplex and duplex thermal shearography in both Refresh Before Heat (RBH) and Refresh After Heat (RAH) modes to meet ASTM E2581-14.





Model LTI-2100 ACCESSORIES

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Remote-Control Pan/Tilt PT-200

For use in vacuum test chambers, test lab or shop, the PT-200 remote control pan/tilt allows the LTI-2100 shearography camera to quickly scan test parts without manually re-aiming the camera for every image. Featuring variable speed and motion dampening settings, the PT-200 can be mounted on the tripod or a fixed support (not included) to provide 120° vertical and 140° horizontal motion for the LTI-2100 and TES-200 thermal lamps. The PT-200 includes the motion head, 16-foot (5 m) controller cable, TES-200 lamp brackets, AC adapter and manual. **Note:** The BC/PT-200 Bulkhead Connector Plate and Cable set are required for chamber use.



Tripod Dolly TD-25

Providing both mobility and mechanical stability in the laboratory, hangar or on the factory floor, the TD-25 Dolly seamlessly fits the 2100 tripod. Once in position, it provides instant camera stabilization for shearography testing. The metal wheels are built with a low creep-rate plastic tread for smooth motion. The convenient foot pedals lock the dolly securely in place. It can be quickly disassembled for storage or shipping.



Table Mount TM-30

For smaller test parts, when benchtop testing is preferred, the TM-30 offers compact, stable camera support. Using the same mount and shoe as the LTI-2100 tripod, the TM-30 has low creep-rate plastic feet with a high-friction coefficient to prevent camera slippage on almost any surface.



Robot Integration Software and Cable Set RI-25

The RI-25 includes our MQTT robot interface software making it fast and easy to integrate the LTI-2100 and TES-200 Thermal Shearography excitation with industrial robots. The cable set is custom-manufactured to your requirements. LTI recommends the desktop or rack-mounted PC and 2100 Controller. Please discuss your requirements with us for our recommended configuration.