

**Product Name :**  
Laser Crack Measurement System

**Product Code :**  
TEST5107RFQLAB-0005



#### Description :

Laser Crack Measurement System

#### Technical Specification :

Pavement cracks, pits and other diseases that cause road surface technical conditions or road surface performance degradation are generally called as road surface damage. The severity of road damage seriously affects the speed of the vehicle and road.

This laser crack measurement system is 2D version, which adopts line-scan camera and the infrared laser to continuously collect the data of the asphalt pavement and cement concrete pavement. Based on the collected images of the pavement to identify the asphalt pavement disease (11 types of disease such as crack, block crack, etc.)

The laser system adopts the high resolution line-scan camera to seamlessly scan the lanes at longitudinal 1mm distance, each 2048mm forms a road image. Infrared laser-assisted illumination is used to achieve normal detection of road in all weather conditions and special environments (such as tunnels, culverts, cloudy days, nights, etc.) to obtain real road images.

#### Features

Full lane coverage, complete data collecting

The laser system adopts the special structure design of single camera/laser. The designed road surface detection width can reach 3.5m or above, realizing the collection of full-width road surface data.

Available exposure and gain adjustment selection

The system supports camera exposure and gain adjustment. During the detecting process, a suitable solution can be quickly selected to improve the efficiency of manual adjustment.

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#### High image quality

The system adopts a lens filter, which eliminates the influence of natural light and vehicle body shadow on image quality, which provides high image quality.

#### Camera

Resolution: 2048 x 1

Sampling frequency: 36kHz

#### Laser device

Power: 7W

#### Crack system

Detecting speed: 0~100km/hour

Continuous working time: More than 8 hours

Transverse effective detecting width: 3.75m

Longitudinal sampling interval: 1mm

Crack recognizing accuracy:  $\pm 1$ mm

Longitudinal and transverse length measuring error:  $\pm 5\%$

Damage area measuring repeatability:  $\pm 95\%$

Damage area relative error:  $\pm 5\%$

Image resolution: 2048 x 2048

Mounting box protection grade: IP65

We are a leading manufacturers of Laser Crack Measurement System testing equipment for a range of industries, including materials science testing lab. We offer full range of Laser Crack Measurement System testing equipment, including Laser Crack Measurement System testing kit, Laser Crack Measurement System testing machine, Laser Crack Measurement System testing tools, Laser Crack Measurement System test equipment, Laser Crack Measurement System test machines, Laser Crack Measurement System for Lab Testing Instruments. We are suppliers of materials testing tools and equipment for the construction industry. Our mission is to provide reliable, accurate, and easy-to-use Laser Crack Measurement System testing equipment that helps customers build better, safer, and more sustainable infrastructure.



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