

## I THE DEVIATION BETWEEN THE CENTER OF THE LENS AND THE LASER AIMING CENTER IS 18MM

The CI820 and CI510 series instruments adopt a measurement angle of  $1^\circ$ , with a minimum measurement area of  $\Phi 22\text{mm}$  and luminance range of up to  $200000 \text{ cd/m}^2$ . The instruments can not only measure the luminance and chromaticity coordinates of light sources and display screens, but also technical parameters such as color temperature and dominant wavelength; It can also measure parameters such as display color gamut and uniformity of light-emitting panels, and has a wide range of applications.

When using the instrument, due to a deviation of 18mm between the center of the lens and the center axis of the aiming laser, users need to make corresponding offsets when aligning the sample for testing to ensure that the lens center and sampling center are aligned.

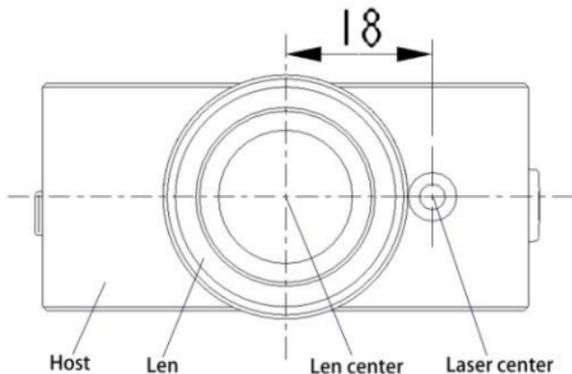


Figure 1 Lens structure dimensions

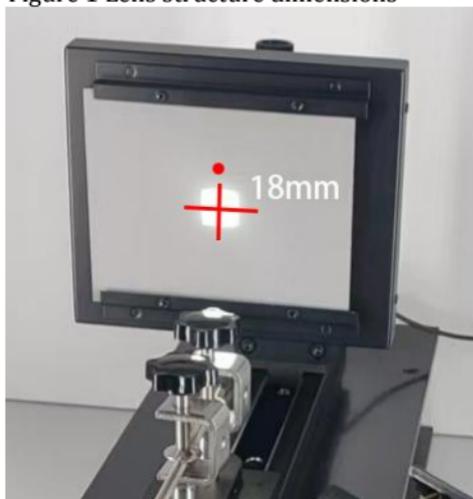


Figure 2 Case study of testing endoscope

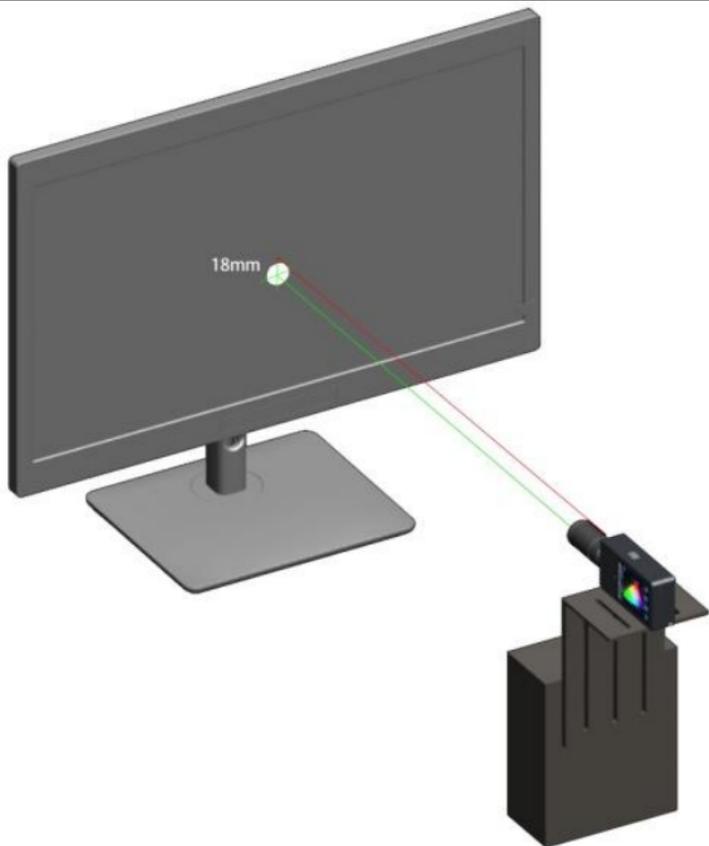


Figure 3 Case study of testing LCD

## II THE RELATIONSHIP BETWEEN THE SIZE AND DISTANCE OF THE LIGHT SPOT COLLECTED BY THE INSTRUMENT

The instrument uses a telephoto lens to measure the relationship between the spot diameter and the test distance, as shown below.

Aperture	$\Phi 22\text{mm}$
Measurement Area	minimum area $\Phi 22\text{mm}$ ; Distance=30mm, minimum area $\Phi 24\text{mm}$ ; Distance=100mm, minimum area $\Phi 26\text{mm}$ ; Distance=500mm, minimum area $\Phi 42\text{mm}$ ; Distance=1000mm, minimum area $\Phi 65\text{mm}$ ;

Figure 4