

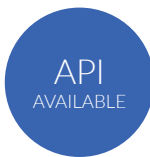
# lightSTUDIO

## Real scene illumination and testing

Many image quality factors are best measured with test charts. However, a few, such as white balance, that are better analyzed using a real scene. The lightSTUDIO contains multiple objects of various colors and textures for an accurate visual analysis.

### Main Features

- \* iQ-LED, fluorescent, and halogen light options
- \* Same interior for easy comparison between labs
- \* Moving targets to measure motion artifacts
- \* Evaluate high contrast scenes

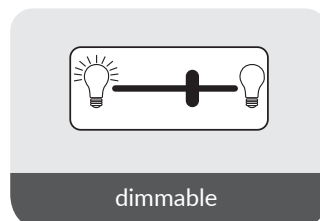
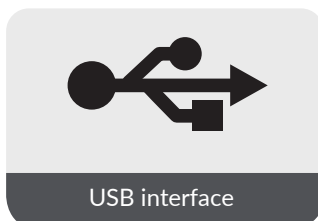


### lightSTUDIO lighting options

Every lightSTUDIO is delivered with the same objects to make cross lab testing and comparison more efficient. However, the standard light head can be exchanged for an iQ-LED light head known as the lightSTUDIO-L. This option can spectrally tune the light to a very accurate standard, e.g., A, D50, D65 illumination.

The lightSTUDIO offers many different options for performing numerous measurements and comparisons within a small compact space. It is also possible to control all components of the lightSTUDIO with an API.

### Standard features of the lightSTUDIO





lightSTUDIO-M with moving targets



lightSTUDIO-H with HDR option



lightSTUDIO-T with twin option

## lightSTUDIO setup options

The lightSTUDIO-M has built-in moving targets, including a moving frame for different test charts. These features are beneficial when measuring motion artifacts and blur in photos and videos.

The lightSTUDIO-H or HDR option has two LG4 lightboxes with transparent test charts to create and test a high contrast scene. This setup can provide a contrast ratio of > 65,000:1.

The lightSTUDIO-T or twin option has a dividing wall in the middle of the scene for an easy side-by-side comparison of two independent illuminants.

## Subjective assessment of image quality by visual comparison of the lightSTUDIO interior\*

- |                             |                                      |
|-----------------------------|--------------------------------------|
| 1 Resolution                | 7 Moiré                              |
| 2 Texture loss              | 8 Distortion                         |
| 3 Sharpness                 | 9 Human skin tone color reproduction |
| 4 Near infrared sensitivity | 10 Color reproduction                |
| 5 Details in highlights     | 11 Natural and known colors          |
| 6 Details in shadows        | 12 Low contrast details              |



\*This is a sample image, you can download the current lightSTUDIO interior list from our lightSTUDIO product page.