

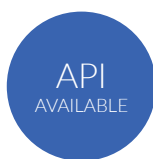
lightSTUDIO

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 and adaptive white options
- * Same interior for easy comparison between labs
- * Moving targets to measure motion artifacts
- * Evaluate high contrast scenes
- * Includes control software for all components

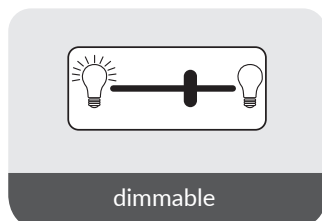
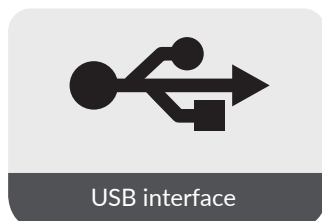


lightSTUDIO lighting options

Every lightSTUDIO is delivered with the same objects to make cross lab testing and comparison more efficient. The standard lightSTUDIO option is the lightSTUDIO-L. This version uses a light head powered by iQ-LED technology to create a spectrally tunable light source. iQ-LED can accurately recreate standard illuminants, e.g., A, D50, D65, and generate custom spectra.

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-AW
 Figure: Pre-series model

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 to create and test a high contrast scene. This setup can provide a contrast ratio of $> 65,000:1$.

The lightSTUDIO-AW uses adaptive white technology, allowing you to select different correlated color temperatures (CCT) instead of a single color temperature with fluorescent tubes. This version has a dividing wall (easily insert or remove), allowing you to create a “twin” scene.

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 |



*The product images and the interior object images are only example images and do not fully reflect the end product.