

# Odyssey M Imager

## Seek Discovery and Leave Limitations Behind with M

The Odyssey M Imager is the most powerful imager currently offered for fluorescent (i.e., near-infrared (NIR) and visible), luminescent, and white light imaging. With high precision and sensitivity, the Odyssey M Imager is all encompassing for even the most advanced research initiatives.

## Expand Research Versatility

While other imagers have limited versatility, the Odyssey M Imager is equipped to image a vast range of experiments—such as tissue sections, membranes, plate-based assays (e.g., In-Cell Western Assays, ELISA assays, and cell health assays), and gels (e.g., EMSA and DNA and protein gels). This versatility enables it to expand and grow over the years with your research initiatives, saving time and money on additional or replacement imagers.

- Images up to eighteen channel combinations
- Uses an industry-leading 5- $\mu$ m resolution for precise, detailed imaging
- Integrates with an optional luminescent module



## Secure Publishable Data Images

The Odyssey M Imager works jointly with LI-COR Acquisition Software, which is responsible for organizing and preserving raw image data that can then be imported into Empiria Studio. The software also includes step-by-step workflows that walk users through image acquisition to ensure that the results are uniform from person to person. Unlike other imaging software, LI-COR Acquisition Software is intended to ultimately ensure user-to-user consistency, data replicability, and publishable results.

- Tags images with their assay types for easy organization
- Retains raw data images to meet publication guidelines
- Allows for routine image adjustments (e.g., crop, rotate, and flip)

## Odyssey M Imager Key Specifications

### Optical System

#### Image Area:

**Total Image Area:**

25 cm W × 18 cm D (9.8" W × 7.1" D)

**Image Area of Chemi Region:**

15 cm W × 11 cm D (5.9" W × 4.3" D)

**Pixel Resolution:** 5, 10, 20, 50, or 100  $\mu$ m

#### Dynamic Range\*:

>6 logs for chemiluminescence (optional) and fluorescence

#### Detectors:

sCMOS image sensor

**Sensor for chemiluminescence:**

CCD (pixel size 6.45  $\mu$ m)

#### Laser Lifetime:

685 nm and 785 nm: 20,000 hours

488 nm and 520 nm: 40,000 hours

Class 1 Laser Product

#### Light Sources:

RGB LED (trans-illumination)

RGB LED (reflective illumination)

Solid-state diode laser at 488 nm

Solid-state diode laser at 520 nm

Solid-state diode laser at 685 nm

Solid-state diode laser at 785 nm

#### Focusing:

Microscope is adjustable -1.00 to 5.00 mm above the scan bed to obtain best signal-to-noise ratio.

*\*This dynamic range is obtained in a single acquisition. Specifications subject to change without notice.*

### Size and Weight

#### Dimensions (Instrument Only):

61 cm W × 76 cm D × 38 cm H

(24" W × 30" D × 15" H)

**Height with hood fully open:**

71 cm (28")

#### Weight:

55 kg (121 lbs) w/ chemiluminescence module

52 kg (115 lbs) w/o chemiluminescence module

### Software Specifications

#### LI-COR Acquisition Software

**Operating System**

Windows 10 (64 bit)

**Memory**

Minimum 16 GB

**Hard Drive**

Solid state

#### Empiria Studio Software

**Operating System**

Windows 10 (64 bit)

Mac OS Mojave or Catalina

**Memory**

Minimum 8 GB