

RWD

MOIS-HT Small Animal *In Vivo* Imaging System



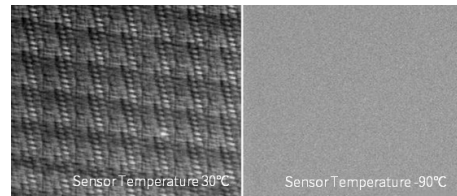
The MOIS HT is a state-of-the-art multi-modal *in vivo* optical imaging system designed to advance your research across various applications, including tumor growth monitoring and stem cell/immune cell tracking. Featuring a high-sensitivity CCD with 90% quantum efficiency and -90°C cooling, it ensures exceptional sensitivity in bioluminescence imaging. With 26 narrowband filters and cutting-edge spectral unmixing technology, the MOIS HT enhances fluorescence imaging precision and resolution, covering a broad range of fluorescent materials used in biological research.

Product Features

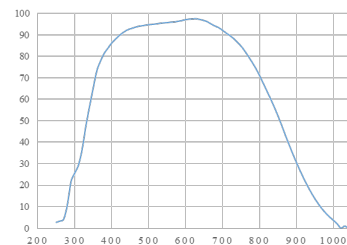
CONTRIBUTE WISDOM AND STRENGTH TO THE IMPROVEMENT OF QUALITY

Weak Signal, Never Miss

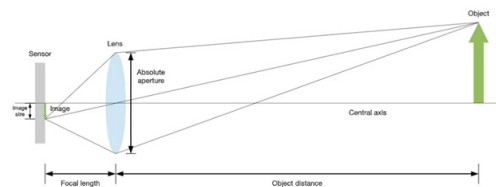
- ③ Equipped with a back-illuminated, -90°C depth-cooled CCD camera to effectively reduce background noise.



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- ③ The F0.95 aperture lens collects more photons per unit time, capturing finer details and less noise.



Wide Spectral Range, Versatile Functions

- ③ Covers a wide wavelength range of 400-900 nm, suitable for various commonly used dyes and probes in scientific research scenarios.
- ③ Includes standard equipment with 19 excitation filters and 7 emission narrow band filters, ensuring a pure signal to avoid color crosstalk and provide realistic data.



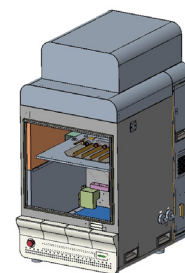
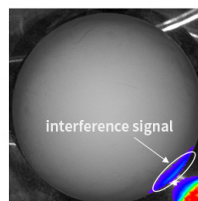


Product Features

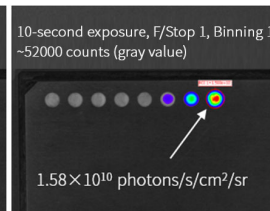
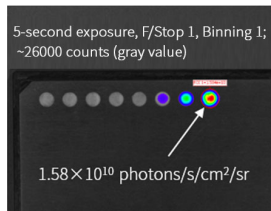
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Accurate Quantification, Reliable Data

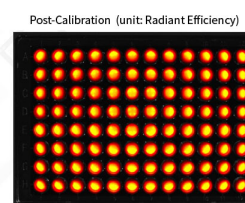
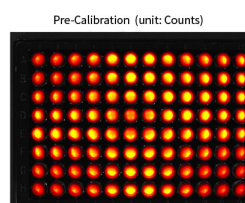
③ The high-quality imaging chamber, with a special coating and rigorous light leakage testing, minimizes non-target signal interference for ultra-low background levels.



③ The calibrated light source meets NIST standards for absolute bioluminescence quantification, ensuring consistent results across imaging parameters.

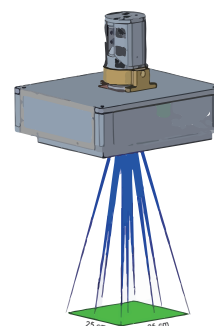


③ Excitation light intensity uniformity guarantees consistent strength across various fields of view, enhancing the reliability of fluorescence data collection.



High-Throughput Measurement, Significant Efficiency

③ Field of view (FOV) $\geq 25\text{cm} \times 25\text{cm}$, enables simultaneous monitoring of at least 5 animals.



③ Equipped with a 5-channel anesthesia tray and active scavenging masks to prevent anesthetic gas leakage.



Imaging Modes

Fluorescence Imaging Module	✓
Bioluminescence Imaging Module	✓
Spectral Separation Imaging	✓
X-Ray Module	Extendable upgrade
Upconversion Fluorescence Imaging Module	Extendable upgrade

Detector

Camera Type	Back-thinned, scientific-grade CCD
Camera Operating Temperature	-90°C absolute cooling
Pixel Dimensions	1024 × 1024
Lens Aperture	F/stop ≤ 0.95
Minimized Field of View (minFOV)	2.5cm × 2.5cm
Maximized Field of View (maxFOV)	25cm × 25cm
Quantum Efficiency	≥90% (500-700nm)

Laser and Related Components

Light Source	150W halogen lamp
Indicator Laser	Real-time view for center pos assist

Filters

Excitation Filters	19 filters
Emission Filters	7 filters

Software

Online Acquisition System	<ul style="list-style-type: none">• Supports over - exposure alerts.• Has built-in time-series, multi-channel, multi-mode features.• Allows synchronous data acquisition & analysis.
Offline Analysis Workstation	<ul style="list-style-type: none">• Supports offline analysis with a built-in module.• No limit on offline analysis software installations.

Environmental Control

Animal Chamber	Standard 5 - channel, optional upgrade to 10 - channel
Temperature Module	20 - 40°C (±0.1°C)
Drug Administration Module	<ul style="list-style-type: none">• Enable in - experiment drug addition• Support auto multi-point dosing
Anesthesia System	<ul style="list-style-type: none">• Anesthetic: Isoflurane• Conc. 0 - 5% adjustable