

# Feyond-F100

## Fluorescence Microplate Reader



### Product Introduction

Feyond-F100 is an economical, single fluorescence microplate reader. This product is designed for bioluminescence scientific research, and can meet the requirements of nucleic acid quantification, fluorescent protein determination, molecular interaction studies,  $\text{Ca}^{2+}$  flow analysis, as well as reporter genes, fluorescent kinases and cell-based studies.

### 01

#### Long-Life Xenon Light Source



Feyond-F100 adopts high-energy xenon lamp as light source, which can realize high-resolution, high-sensitivity and ultra-fast detection test. The service life can be up to 10 years, no need to warm up, and it can be detected when it is turned on.

### 02

#### High Performance Filter



Filter-based fluorescence detection has high advantages in sensitivity and wavelength selection. Filters provide higher sensitivity, greater light transmittance, better filtering, and faster wave range selection.

### 03

#### Precise Kinetics

Feyond-F100 can be used for fast kinetic analysis (such as  $\text{Ca}^{2+}$  flux analysis) with a high-precision injector. It can monitor the fast kinetic reaction in time from the beginning of the experiment to ensure the integrity of the experiment.

# Feyond-L100

## Luminescence Microplate Reader

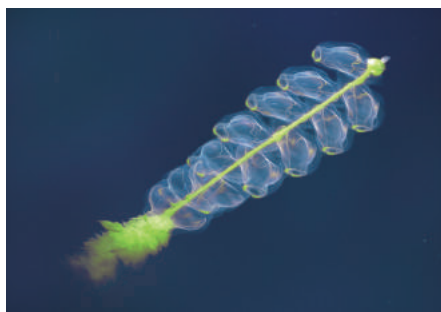


### Product Introduction

Feyond-L100 is a compact and powerful luminescence microplate reader. It can provide a variety of microplate readings, and the fast reading speed combined with the automatic injector can effectively improve your work efficiency.

#### 01

##### High-Sensitivity Detection



Feyond-L100 is equipped with a high-sensitivity luminescence detection block, which can realize a variety of throughput detection in 6-384-well plates, and can also accurately quantify micro samples.

#### 03

##### Standard Filter

The luminescence detection function is equipped with two filters, 460 nm and 560 nm, which can effectively reduce the background noise and improve the detection sensitivity during the luciferase reporter gene detection process.

#### 02

##### Ultra-Low Well-to-Well Interference



The unique optical path design effectively reduces the signal cross-interference between holes, and the cross-talk is less than 0.005 %.

#### 04

##### Low Noise PMT

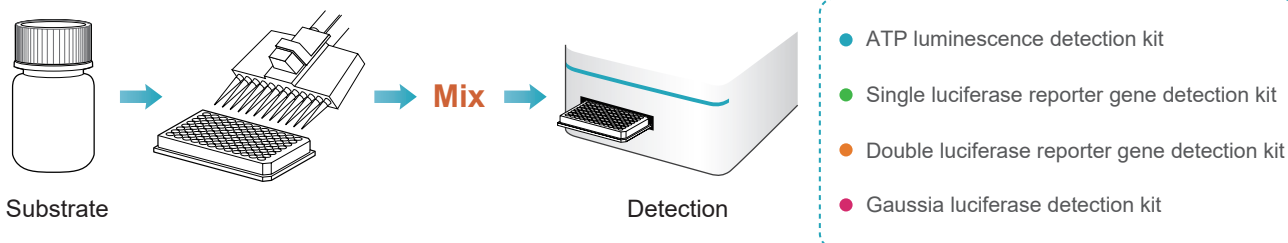
Combined with low-noise PMT, the collected signal is more accurate, and the lowest detection limit can reach 5 amol/well (ATP).

## 05

### Luminescence Kit

Allsheng luminescence series kits are based on the construction, transfection and expression of luciferase reporter gene vector. The luciferase can catalyze the conversion of the substrate and emit photons, and finally the detection system is used to obtain the detection data.

The reagent adopts an optimized reaction system, which is easy to prepare, easy to operate and has high accuracy.



## Feyond-F100/L100 Standard Software

### User Authority Classification

User permissions are divided into four levels, with clear permissions.

The users have independent accounts and passwords to ensure the safety and confidentiality of experimental results.

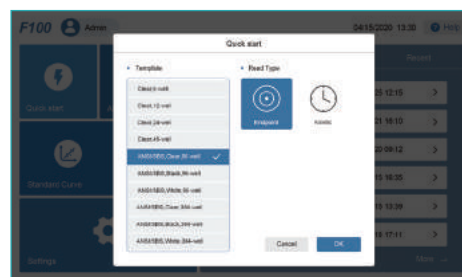
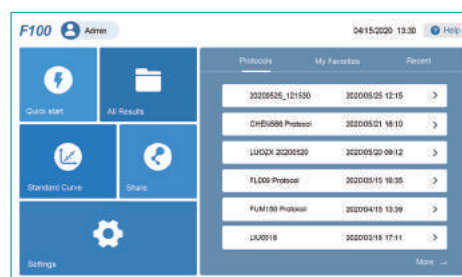
### Intuitive Interface Display

Intuitive selection of function modes, easy parameter setting.

Programs and results are stored independently, making it easy to be found the required applications.

### FTP (File Transfer Protocol)

Upload the data directly to a computer with a FTP server, and users can view the data results at any time in the authorized folder.



## Technical Parameter

Model	Feyond-F100
Reading time	Top reading
Excitation light source	Xenon lamp
Detector	PMT
Wavelength range	EX: 200-1000 nm; EM: 270-850 nm
Filter EX / EM	3 groups: EX470 / EM525, EX523 / EM564, EX624 / EM692 (other wavelengths can be replaced)
Detection limit	2.5 pM
Linear dynamic range	6 logs

<b>Model</b>	<b>Feyond-L100</b>
Detector	PMT
Detection limit	5 amol / well
Linear dynamic range	6 logs
Crosstalk	≤ 0.005 %
Wavelength range	200-850 nm
Filter	460 nm, 560 nm

## Basic Parameter

<b>Model</b>	<b>Feyond-F100 / L100</b>
Plate	6-384 well
Accessories	Injector
Shaking mode	Linear, annular, double annular
Incubation temperature	RT. +4 °C ~ 45 °C
Temperature uniformity	±0.5 °C @ 37 °C
Software interface	Chinese / English
Screen size	10-inch
Operation method	Capacitive screen touch, mouse
Data capacity	10 GB
Compatibility	Support PC software, Win7/Win10 64 bit
Network transmission	The test data report can be uploaded to the PC server through FTP
Instrument port	2 USB Type A ports, 1 USB Type B port, 1 Ethernet port, Rs232 bus interface (connected to the injector)
Power supply	AC 100-240 V, 50-60 Hz
Dimension (W×D×H)	440×420×315 mm
Weight	25 kg

## Accessory Parameter

<b>Automatic Injector</b>	Quantity	1 / 2
	Dispensing volume	5-1000 μL, 1 μL increment
	Liquid injection speed	125-500 μL/s
	Accuracy	±1 μL @ 5-50 μL; ±2% @ 51-1000 μL
	Waste liquid collection	50 mL
<b>Software</b>	Analysis software	ReaderIt-II software

## Ordering Information

Code	Description
AS-19090-00	Feyond-L100 luminescence microplate reader
AS-19100-00	Feyond-F100 fluorescence microplate reader
AS-19011-01	ReaderIt-II PC analysis software
AS-19011-04	MSS-2 automatic injector