

구 매 사 양 서
COMMODITY DESCRIPTION

C. Specification

1. MALDI-TOF system

1) High voltage system

(1) Acceleration voltage : -> +20kV / -18kV

2) Vacuum system

(1) Vacuum level : < 5×10^{-7} torr

(with Diaphragm pump and Turbo molecular pump)

(2) Typical loading time : < 120 sec

3) Sample stage and chamber

(1) Automatic sample introduction (Loadlock system)

(2) Travel range : 130 mm (X axis), 90 mm (Y axis)

(3) Speed : 60 mm/sec

(4) Resolution : 2 μm

4) Ion optics

(1) Delayed extraction (resolution : 10 ps)

(2) X/Y deflector

(3) Ion gate

(4) Einzel lens

(5) Reflectron

(6) TOF length : 2.23 m (Reflectron), 1.29 m (Linear)

5) Laser and laser optics

(1) Yb:YAG UV Laser

(2) Wavelength : 343 nm

(3) Pulse width : 1 ns

(4) Variable spot size : 5 ~ 100 μm spatial resolution

(5) Pulse energy : <100 $\mu\text{J/pulse}$

(Default setting: 0.1 ~ 11 $\mu\text{J/pulse}$, 최소 가변 energy: <0.04 $\mu\text{J/pulse}$)

(6) Repetition rate : 2 kHz

구 매 사 양 서
COMMODITY DESCRIPTION

<p>6) Vision and vision optics (1) Full vision system</p> <p>7) Detector (1) Type : Electron multiplier (Linear mode), Microchannel plate (Reflectron mode)</p> <p>8) Digitizer (동급사양) (1) Vertical resolution : 14 bit (2) Sampling rate : 4 GS/s (3) Bandwidth : 2 GHz</p> <p>9) Software (1) IDSys 3.1.5 (Operating software with web-based user interface)</p> <p>2. Performance Specifications</p> <p>1) Mass imaging resolution : 5 μm 2) Repetition rate : 1 kHz 3) Mass range : 5 ~ 100,000 Da 4) Mass resolution : > 20,000 (Standard peptide) FWHM 5) Sensitivity : S/N > 50 with 50 amol Glu-Fib B (Standard peptide) 6) Mass accuracy (internal) : < 10 ppm (Standard peptide) 7) 측정 소요시간 : Spot당 3초 이내 (50 shot 기준) 8) 레이저 스팟 사이즈 : 5 μm 9) 위치 정밀도 : 2 μm</p> <p>3. Data Handling System (동급사양)</p> <p>1) CPU : 인텔 코어 i9-10900K, 20 MB 캐시, 10 코어, 20 T, 3.7 GHz to 5.3 GHz, 125 W or equivalent 2) RAM : 128 GB DDR4-2666 3) OS : Windows 10 Professional 64-bit 4) Storage : 2 TB SSD + 4 TB HDD 5) Graphic : Intel® UHD Graphics 630 or equivalent 6) Monitor : 27 inch dual monitor</p>		
---	--	--

구 매 사 양 서
COMMODITY DESCRIPTION

D. Accessories		
1. Holders		
384 sample holder	EA	1
2. Plates		
384 plate (10 ea/pack)	pack	1
3. Spare Accessories		
Holder 보관용 케이스	EA	1
Plate 보관용 케이스	EA	1
일반 분석용 Matrix (CHCA, DHB, SA)	SET	1
Standard plate (표준물질 포함된 플레이트)	EA	1
User's manual 및 Quick guide	SET	1
4. UPS (5 kVA, 30 min.)	EA	1
E. Remarks		
1. Delivery : Within 4 months after issuance of L/C		
2. Installation : Within 2 weeks after the request by the End-User		
3. Inspection : Maker's to be final		
4. User Education : Application Support Team conduct regular training twice a year on instrument operation, analysis and maintenance		
5. 구매 시점 당시의 가장 최신, 최고 사양 모델로 적용한다.		