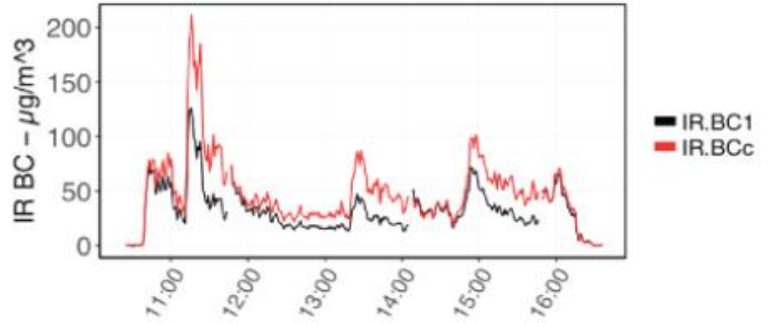


휴대용 BC 측정기 (Real-Time Aethalometer)



Model : MA300

용 도(Applications)

- Black carbon 의 장시간 모니터링
- 자외선 미립자 물질(UVPM)의 측정
- 도로변 노출시험 및 Flux 연구에 활용가능
- 노출량 평가 및 조사에 사용

특 징(Features)

- 5 파장 사용 (880, 625, 528, 470, 375 nm)
- Dual Spot 적용으로 보다 정확한 분석가능
- 하나의 필터로 85개 지점, 최장 1년 측정가능
- 내부 배터리로 56시간 이상 사용가능
- 3~12개월 장기 모니터링 가능

사 양(Specifications)

Measurement principle	Optical absorption at 5 Wavelengths
Optical Source	880 nm, 625 nm, 528 nm, 470 nm, 375 nm
Measurement Range	5 µg BC/m ³ for 24 hours at 100 ml/min 100 µg BC/m ³ for 3 hours at 50 ml/min 1 mg BC/m ³ for 15 minutes at 50 ml/min
Measurement Resolution	0.001 µg BC/m ³
Limit of Detection	30 ng BC/m ³ , 5 min time base., 150 ml/min flow rate, Single Spot™
Measurement Time Base	1, 5, 10, 30, 60, or 300 seconds
Environmental Sensors	Accelerometer, Relative Humidity, Temperature, Altimeter/Barometer
Flow Rate	Internal pump provides 50, 75, 100, 125, or 150 ml/min
Data Storage	16 GB, flash memory, providing storage for 31,250,000 data lines; 1 second time base: 361 days of data.
Location Services	GPS with internal antenna
Connections	USB 2.0, 3.3V TTL Serial, DC input via barrel jack, Aerosol sample inlet and outlet ports
Wireless	802.11 b/g/n Wi-Fi with AES hardware encryption, Bluetooth Low Energy. Available in future firmware releases.
Consumables	One filter strip per 85 sampling locations
Filter Media	Polytetrafluoroethylene (PTFE)

Sample Spot Size	3 mm
Dimensions(L x W x D)	165.2mm x 125.2mm x 39.7mm
Weight	715g
Battery	Internal 3.6 V 12,800mAh rechargeable lithium-ion battery
Power Supply Adapter	100-240 VAC (50/60 Hz) input, 5VDC variable output
Total Run Time(single battery charge)	56 hours at 60 second time base, 100 ml/min
Operation Environment	5 to 40°C, non-condensing

구 성(Configuration)

MicroAeth Model MA300 Instrument	1 ea
MA300 Filter Tape Cartridge (1)	1 ea
Barrel jack AC adapter	1 ea
USB communication/charging cable	1 ea
1 meter sampling hose with swivel tube connector	1 ea
Lapel clip for sampling hose	1 ea
MicroAeth-COM Software	1 ea
Quick Start Guide and Operating Manual	1 ea

Accessory

MA300/MA350 Filter Tape Cartridge L85 (85 sampling)	1 ea
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