

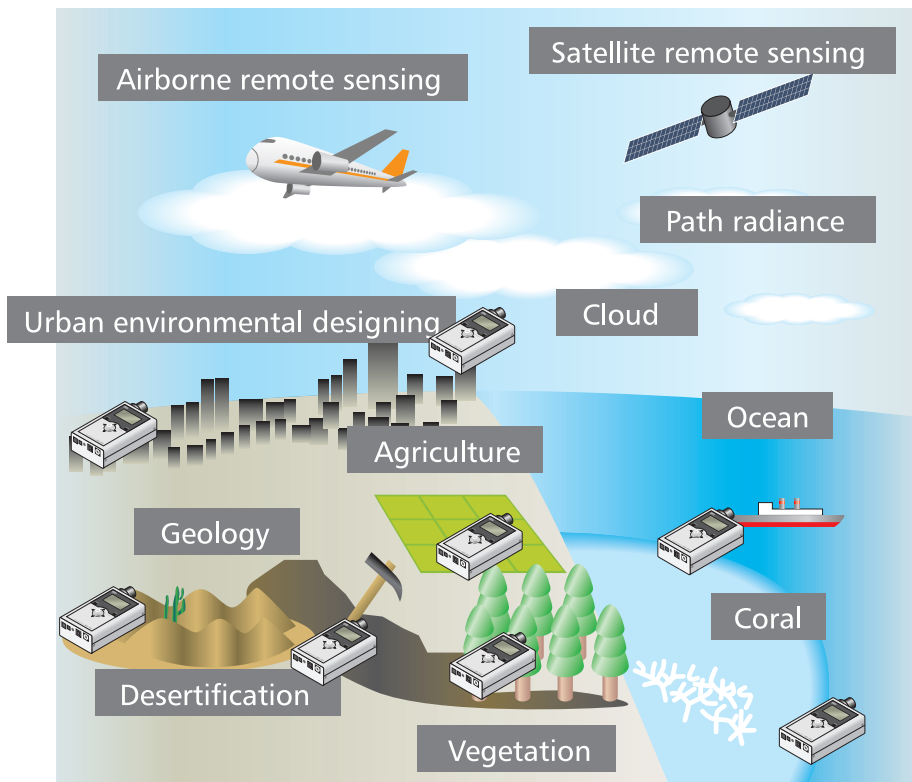
# portable Spectroradiometer

## Features

- Portable
- Selectable aperture angle (FOV)  
MS-720 is a spectroradiometer with aperture angle of 45°, 90° and optional 22.5° (Half angle).
- Stand-alone instruments  
Can be operated by 4 x AA battery or optional AC adapter.
- On-board display  
Integrated LCD shows spectral curve and calculation results.
- PC interface  
Measurement results can be downloaded to PC using RS232C and USB.  
Analytical software is included in the package.
- Geographic location  
Precisely locate the position and store the latitude / longitude at site (By optional GPS).



## Applications     Suitable for Field Research



- Other fields;
- Illumination (LED,PDP,LCD)
- Painting
- Printing / Papermaking
- Resin / Plastic goods
- Building / Human engineering
- Food / Ingredients
- School / Education
- Archaeology / Antique art

## Features

Existing products	EKO MS-720
<b>Low-cost/portable CCD spectroradiometer</b>	
✗ PC operation through RS232C or USB	➔ ⑨ Stand-alone instrument. Integrated memory can store up to 800 data.
✗ Outputs was digital number (integer count value).	➔ ⑨ Outputs is spectral radiation ( $W \cdot m^{-2} \cdot \mu m^{-1}$ ), NIST traceable.
<b>Portable spectroradiometer for field measurement</b>	
✗ Weight : 2-3kg at the minimum	➔ ⑨ Weight : 720g (including batteries)
✗ PC was generally required to display spectral curve etc.	➔ ⑨ Spectral curve and processed data can be displayed on the integrated LCD.
✗ Chargeable battery - High cost, Time-consuming	➔ ⑨ 4 x AA battery
<b>High-end spectroradiometer for indoor measurement</b>	
✗ Measurement error was occurred in the field measurement because of the influence of the environmental temperature.	➔ ⑨ Temperature dependency of spectrometer can be automatically compensated. Therefore, accurate measurement is possible for the field measurement.

## Specifications

Spectrometer	ZEISS spectrometer
Spectral range	350 - 1050nm
Spectral resolution	10nm
Channel / Wavelength interval	256ch / 3.3nm
Aperture angle(FOV)	FOV 45°, 90° (option 22.5° )(Half angle)
Operation environment	Temperature range : -10~+40°C (with temperature compensated) Humidity range : 0~90%RH (without dew condensation)
GPS	Option
Interface	RS232C
Data communication speed	2 minutes for 800 data via RS232C
Power requirements	4 x AA battery, AC adapter
Display	On-board monochrome LCD
Output	$W/m^2 \cdot \mu m^{-1}$ (NIST traceable)
Weight and dimensions	100(W) x 160 (D) x 60 (H)mm, 720g (including batteries)
Software	Measurement and analytical software

