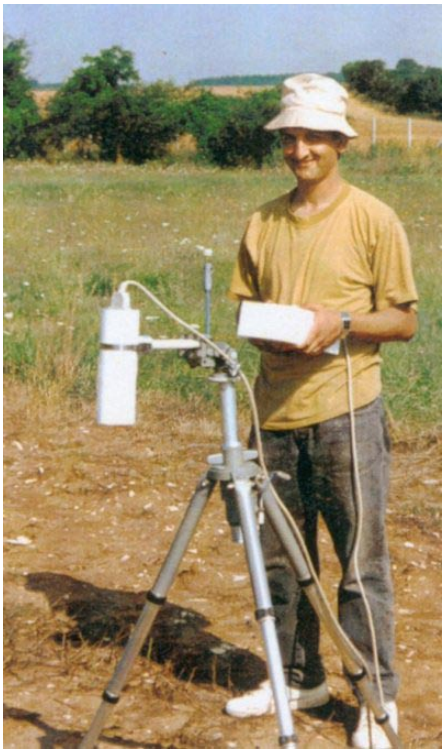
THERMAL-INFRARED RADIOMETER CE 312

High precision multichannel thermal-infrared radiometer



SPECIFICATIONS

Temperature range : - 80 to +60° C
Resolution : 8 to 50 mK at 20° C
Response time : 1s
Calibration : radiance-based

Standard spectral band passes (up to 8)
CE 312 –1 (4 band passes)

8 - 13	8.2 - 9.2 µm
10.3 - 11.3	11.5 - 12.5 µm

CE 312-2 ASTER (6 band passes)

3 - 13	8.1 - 8.5 µm
8.5 - 8,9	8.9 - 9.3 µm
10.3 – 11	11 - 11.7 µm

Operating environment : -20 to +50° C

OPERATION MODE

Manual scanning step by step
Automatic scanning

DATA PROCESSING

Data directly readable on the electronic unit
Storage in internal memory
Data unloading to a PC

POWER SUPPLY

Electronic or internal batteries which are rechargeable by solar panels or 12V charger

PRESENTATION

The instrument is composed of 2 parts : an optical head, and an electronic unit for data control, reading, storage and transmission

APPLICATIONS

Reference instrument for intercomparison

Agronomy
- Estimation of production, irrigation control

Meteorology
- Thermal flux evolution, clouds observation

Geology
- Structure determination, geothermic zones study

Oceanography
- Sea current study

Space
- Calibration of airborne and satellite instruments

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