

Product Note M116-08/10

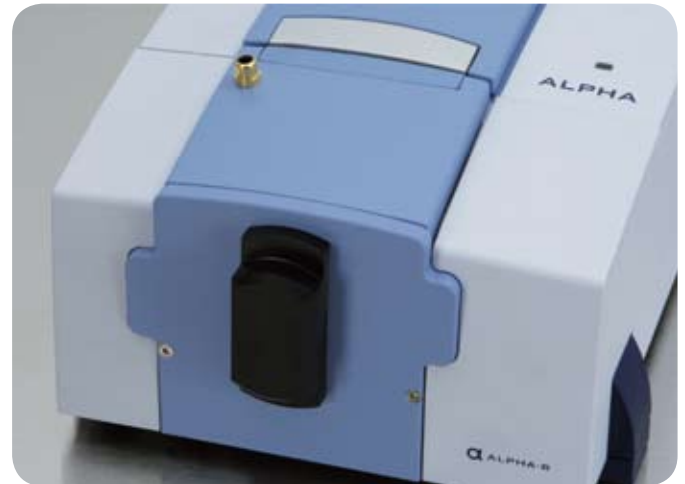
## A241/D QuickSnap™ Reflection module for contactless measurements in front of the instrument

This reflection module for the ALPHA FT-IR spectrometer is designed for contactless, non-destructive FT-IR measurements in front of the spectrometer. It is particularly suitable for the IR-analysis of large, reflective samples that cannot be placed in the sampling positions of typical reflection accessories.

For the measurement with the A241/D the sample just has to be placed in front of the spectrometer. Using the portable battery-powered and wireless configuration of the ALPHA FT-IR spectrometer even the analysis of immovable samples is possible.

The front reflection module can be equipped with a video camera allowing the correlation of the sample's visual image with the information obtained by the IR-measurement.

ALPHA's QuickSnap™ sampling modules offer complete sampling flexibility. They can be exchanged easily without the use of tools and are recognized instantly by the ALPHA FT-IR spectrometer. After an automatic performance test the optimal set of measurement parameters is loaded.



### Main Applications:

- Surface analysis of large samples
- Mural paintings
- Art conservation and restoration
- Coatings on metals

### Specifications

- Spectral range: 375 - 7,500  $\text{cm}^{-1}$
- Gold mirror for reference measurement
- Sample spot diameter: 5 mm (option 3 mm)
- Sample spot distance from instrument front: 15 mm

### Options

- A241/DV QuickSnap™ Reflection module with high quality video camera
- 1015487/1015488/1015489  
Tripod with quick release mounting for ALPHA spectrometer and gear allowing fine adjustment

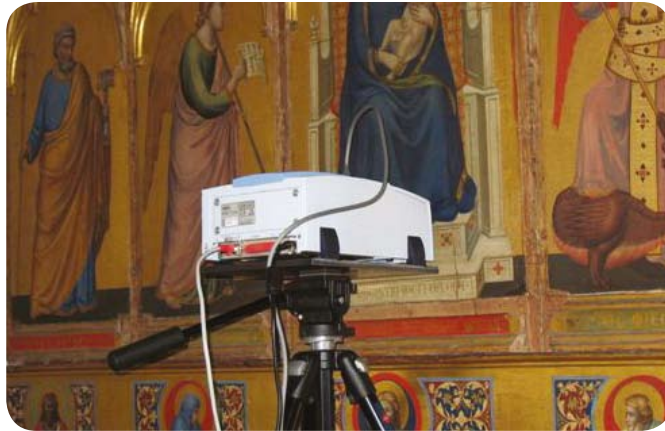


Figure 1: The ALPHA FT-IR spectrometer mounted on a tripod in front of a Mural painting.

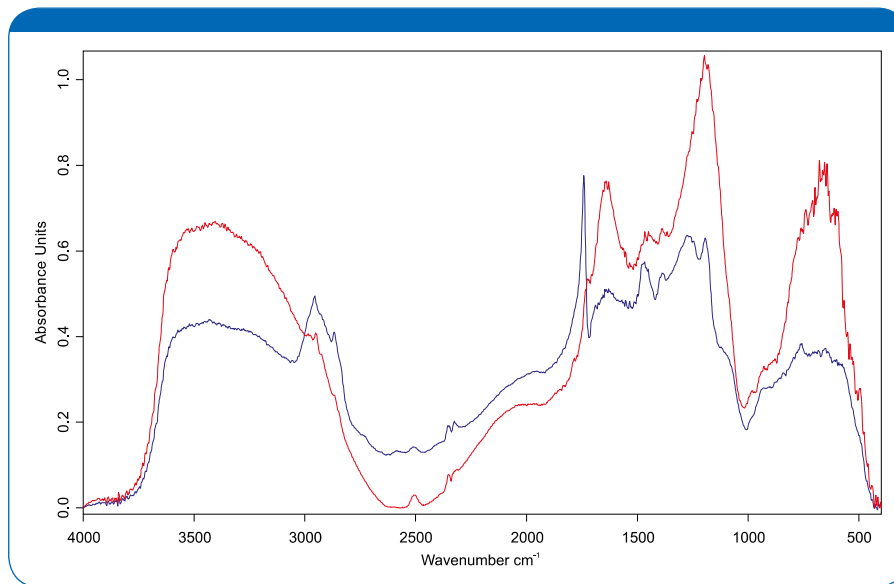


Figure 2: FT-IR reflection spectra of two different coatings on a stone wall, coating #1 in red, coating #2 in blue. Measurements were performed with the ALPHA, equipped with the front reflection module.