HORIBA Scientific

# Micro Raman Accessory

Microscope Objective
UVI 74x

## Achromatic Broad Spectral Range Microscope Objective from UV to NIR

The objective **UVI 74x** is an **achromatic broad range** objective, based on Schwarzschild optical design. It is a **fully reflective** solution that removes all chromatic aberrations typically observed for UV objectives.

It is an ideal solution for applications requiring **high throughput** and **excellent spatial resolution** in a broad spectral range **from UV to NIR**.


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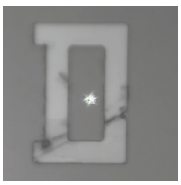
# Microscope Objective UVI 74x


**The objective UVI 74x is ideally suited for use in combination with the achromatic design of the LabRAM HR Evolution.**

- Achromatic design is highly desired when working with a very broad spectral range - without it, users will experience focus shift, intensity loss and strongly distorted depth resolution. When coupled with a true mirror based achromatic spectrograph, this objective ensures the advantages of UV Raman free from chromatic aberrations that blur and degrade both your spatial and spectral resolution.
- High throughput from UV to NIR is achieved due to the reflective design. Its transmission ratio (typically 80 %) is almost constant over the full range.
- Excellent spatial resolution - near diffraction limited performance, this objective exhibits excellent spatial resolution over the full range.
- Fluorescence free - no autofluorescence is generated by this objective.



325 nm laser spot with objective UVI

325 nm laser spot with lens objective

| Specifications | |
|---|---|
| Magnification | 74x * |
| Numerical aperture (N.A.) | 0.66 ± 0.01 |
| Spectral range | [200 nm - 5000 nm] |
| Working distance | 1 mm |
| Field number (F.N.) | 18 |
| Raman system compatibility | LabRAM HR Evolution, T64000 |

* For tube lens focal length of 200 mm



Find out more at www.horiba.com/raman

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