Ventacon UK

MANUFACTURERS OF SPECIALIST
SCIENTIFIC EQUIPMENT

for RAMAN AND INFRARED SPECTROSCOPIES

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MACRO MICRO ACCESSORY – OPERATING INSTRUCTIONS

The case contains a mirror / lens assembly, a stand for industry standard cells and holders mounted on 3" x 2" cards, and a bulky black unit that holds liquids and solids.
You will also find a flat unit with a metal triangle on top. This is a bottle and vial holder.
To the left you will find a red hexagon key. This fits the mirror lens assembly screws.

Metal Plate and Stand

Fit the plate into the microscope stage. The Prior plate requires no retention although the Prior supplied plastic screws are included.
The Olympus plate replaces the standard microscope slide holder.

Sampling

Bottles and vials are held in the special holder which drops over the plated nuts in the metal plate. The two rods supplied are fitted into the holes appropriate to the size of the bottle or vial and the triangle is moved until the bottle is held firmly.

Ventacon supplies a 10mm path quartz cuvette which fits in the front compartment of the black sampler. Again, the sampler drops over the two plated nuts in the metal plate.

You can also hold 5mm NMR tubes and melting point tubes using the stainless steel adaptors provided. Powders are best examined in the compressed open face mode.
At the rear of the sampler you will find a removable cylinder and thin piston. Slide the piston back a few mm's and place a few mg's of powder in the space. Find the compression plate and squeeze the powder into a soft pellet. Do not remove the pellet - replace the cylinder into the sampler and examine it in situ.

You can hold other Ventacon accessories and also any cell or holder mounted on 2" x 3" cards by using the vertical stand.
Unlike the other sample holders the stand IS retained to the metal / Prior plate by captive screws.
Drop the stand over the plated nuts and tighten the screws using the hexagon screwdriver provided.
PLEASE USE THE CYLINDRICAL FINGER TIGHTENING SECTION OF THE SCREWDRIVER. OVERTIGHTENING WILL BREAK THE NUT AWAY FROM THE PLATE.

Use with 780nm Lasers

Borosilicate and some optical glasses fluoresce in 780nm radiation.
The Ventacon objectives may present a problem and NMR tubes definitely do. We can provide 5mm Silica tubes if required.