

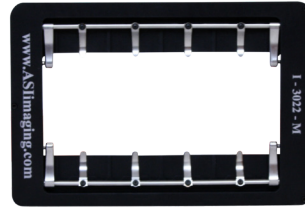


APPLIED SCIENTIFIC
INSTRUMENTATION

160 x 110mm Slide Inserts

Universal Insert (I-3091)

The I-3091 universal insert has two adjustable sliders to hold different sized slides, dishes up to 70 mm (2.75"), or a LabTek™ chambered slide. The bottoms of the slides or dishes are recessed about 7.3 mm below the top. Depth from top of Insert: 7.3 mm Overall Thickness: 8.0 mm

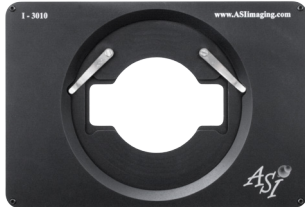


Four-Slide with S.S Clamps Insert (I-3022-M)

The I-3022-M slide insert accepts four 25 mm x 75 mm slides and has individual spring clips on an axel which flips down for secure stability. The unit is recessed to place the bottom slides about 7.1 mm below the top of the insert. Depth from top of Insert: 7.3 mm Overall Thickness: 8.0 mm

Single Slide Insert (I-3010)

The I-3010 slide insert accepts a single 25 mm x 75 mm (1" x 3") slide. The unit is recessed to place the bottom of a slide about 7.5 mm below the top of the insert. Depth from top of Insert: 7.5 mm Overall Thickness: 8.0 mm



OEM Hole-Style Slide Insert (I-3014 or I-3014-40)

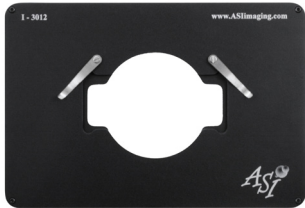
The I-3014 slide insert has a 30.5 mm (1.20") hole in the center with two retaining clips and a milled-out area under the opening. It is similar in design to many OEM manual stage tops. The unit is recessed to place the bottom of a slide about 7.1 mm below the top of the insert.

The I-3014-40 is a special version of the I-3014 with a 40 mm (1.57") hole in the center.

The I-3014-S is a special version of the I-3014 with a made out of solid steal. Depth from top of Insert: 7.1 mm Overall Thickness: 8.0 mm

Single Slide Insert High-Rise Version (I-3012)

This is a special version of the I-3010 with a milled-out bottom to allow easy use of piezo objective holders. It is very slightly recessed to place the bottom of a slide about 1.7 mm below the top of the insert. Depth from top of Insert: 1.7 mm Overall Thickness: 8.0 mm



Dual Rotating Slide Insert (I-3096DR, I-3093HR/DR or I-3094HR/DR)

The I-3096DR Rotating Slide Insert accepts either a single 25 mm x 75 mm (1" x 3") slide or a 50mm x 75 mm (2" x 3") slide. The unit is recessed to place the bottom of a slide about 7.4 mm below the top of the insert, and allows the slide to be manually rotated 360 degrees continuously.

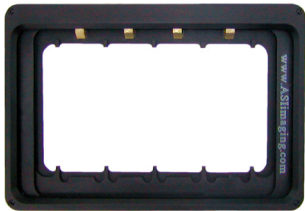
The I-3093 HR/DR Medium-Rise Dual Slide Insert is a special version of the I-3096 DR with a slightly shallower recession that places the bottom of a slide about 5.0 mm below the top of the insert. It offers a compress between the closet an upright microscope's objective can approach from above and still obtain Kohler illumination.

The I-3094 HR/DR High-Rise Dual Rotating Slide Insert it is also a special version of the I-3096 DR. It offers a much shallower recession that places the bottom of a slide about 1.5 mm below the top of the insert. Available for upright microscopes that cannot move close enough to achieve correct focusing, although a condenser extender may be needed to Kohler illumination.

Depth from top of Insert: 7.4 mm Overall Thickness: 8.0 mm

Four-Slide Insert with Brass Sliders (I-3022-B)

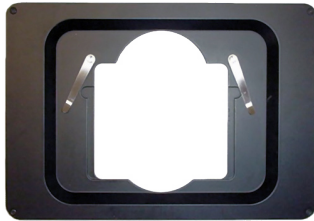
The I-3022-B slide insert accepts four 25 mm x 75 mm (1" x 3") slides. The unit is recessed to place the bottom of slides about 7.3 mm below the top of the insert. Depth from top of Insert: 7.3 mm Overall Thickness: 8.0 mm



Dual Slide Insert with Clips (I-3027)

The I-3027 slide insert accepts either a single 25 mm x 75 mm (1" x 3") or a 50 mm x 75 mm (2" x 3") slide, and has two silver clips to hold the slide in place. The unit is recessed to place the bottom of a slide about 7.2 mm below the top of the insert.

Depth from top of Insert: 7.2 mm
Overall Thickness: 8.0 mm



Triple Slide Insert (I-4021)

The I-4021 slide insert accepts three 24 mm x 50 mm slides/coverlips and has clips on top and bottom to hold slides in place. The unit is recessed to place the bottom of slides about 6.95 mm below the top of the insert.

Depth from top of insert: 6.95 mm
Overall thickness: 8.0 mm

Dual Rotating Slide Insert (I-3096DR, I-3095 or I-3095HR/DR)

The I-3095 Single Rotating Slide Insert accepts a single 25 mm x 75 mm (1" x 3") slide the unit is recessed to place the bottom of a slide about 7.5 mm below the top of the insert and allows the slide to be manually rotated 360 degrees continuously. The insert also holds a 55 mm Petri dish.

The I-3095 HR High-Rise Single Rotating Insert is a special version of the I-3095 and also accept a single 25 mm x 75 mm (1" x 3") slide below the top of the insert. Available for upright microscope that cannot move close enough to achieve correct focusing, although a condenser extender may be needed to obtain Kohler illumination.

Depth from top of Insert: 7.4 mm
Overall Thickness: 8.0 mm



Single Rotating Slide Insert (I-4022)

The I-4022 insert accepts a 24 mm x 60 mm, or 25 mm x 75 mm, or 26 mm x 75 mm coverslip/slide. It

has clips to hold the coverslip/slide in place. The unit is recessed to place the bottom of slides about 7.29 mm (.287") below the top of the insert. Depth from top of insert: 7.29 mm
Overall thickness: 8.0 mm

Choosing the Appropriate Insert

Inserts are designed to place their samples at a particular depth relative to their height. Generally, inserts on inverted microscope stages try to place the specimen as low as possible, while inserts on upright microscope stages try to place the specimen as high as possible. Some microscopes are versatile enough to use either insert, and on some stage systems only certain inserts can be used.

When their objectives cannot be lowered close enough to achieve focus, some systems require shallow or high rise inserts (I-4013 insert, for example), however, this can be a problem with Kohler illumination if the condenser cannot be raised high enough -- in this case, a condenser extender is usually employed.

Some microscope models (e.g. Nikon E800/1000) may use large DIC condensers that cannot be extended -- in those cases (and depending on the stage) a compromise or medium ring insert is chosen (an I-4014 insert, for example) to lower the specimen enough to attain Kohler illumination yet remain high enough that the objective can still be focused.