

The UNIBLITZ® shutter line has proven to be a beneficial enhancement to a number of microscopy and video imaging applications. Due to the growing demand for shutters capable of addressing the needs in these two application areas, Vincent Associates has designed mounting systems that can be interfaced with popular microscopes and video systems. Below, you will find information on mounting options available for Zeiss, Nikon, Olympus, and Leica type microscopes, along with "F-C", "C", and "T" video mounts. The various mounting selections found on this sheet are available as an option with any of our series #2 or specific #3 cased shutters. When ordering one of these options, please

refer to the "HOW TO ORDER" section of the specific shutter series you are interested in. After reviewing the following data sheet, if you cannot find what is required for your particular application, please contact our technical representatives for further assistance.

For microscopy applications utilizing mercury arc lamps, we strongly recommend the "R1" enhancement. This internal shutter modification allows our VS14, VS25, and VS35 shutters to operate properly under the heat generated by mercury arc lamps. When ordering the "R1" option, the shutter must also contain the "ZM" blade coating.

UNIVERSAL MOUNTING STYLES

100 MOUNTING RING

The #100 (formerly 6-0100) mounting ring is a mounting flange which will allow all shutter types LS or VS series (except CS45 series) to be mounted to a flat surface (see Figure 1). The mounting ring would be attached to a flat surface and the shutter would then attach to the ring via the #2 housing rear thread (1.625in x 40TPI).

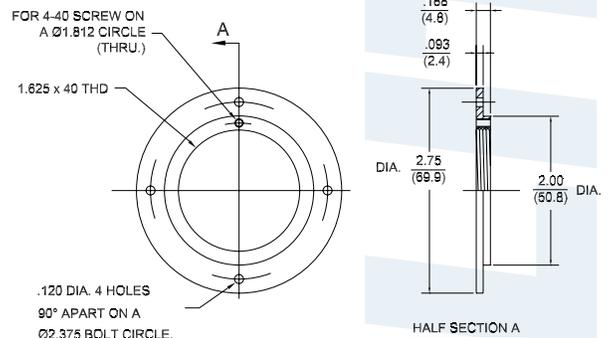


Figure 1

101 MOUNTING RING

The #101 mounting ring is a mounting flange which will allow the CS45 series, to be mounted to a flat surface (see Figure 2). The mounting ring would be attached to a flat surface and the shutter would then attach to the ring via the #2 housing rear thread (2.000in x 40TPI).

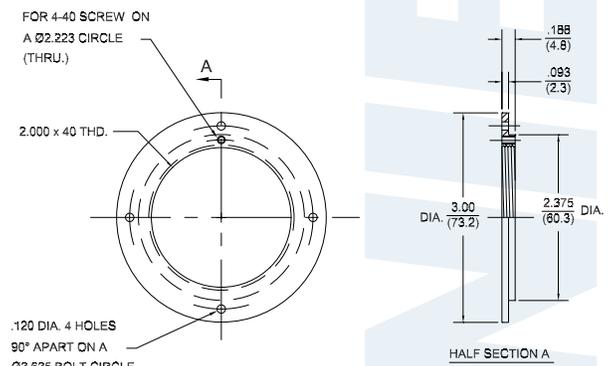


Figure 2

Due to our ongoing product development program, Vincent Associates reserves the right to discontinue or change specifications or designs or any products at any time, without incurring any obligations. Teflon is a registered trademark of E.I. DuPont. U.S. Pat No. 3,427,576; 3,595,553; 3,967,293. Drawings shown for illustrative purposes only.

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UNIVERSAL MOUNTING STYLES (continued)

102 MOUNTING RING

The #102 Mounting Ring will allow the CS65 series to be mounted to a flat surface (see FIGURE 3). The mounting ring would be attached to a flat surface using the four .120 inch diameter holes. The shutter would then attach to the ring via the #2 housing rear thread (3.00 inch x 40TPI).

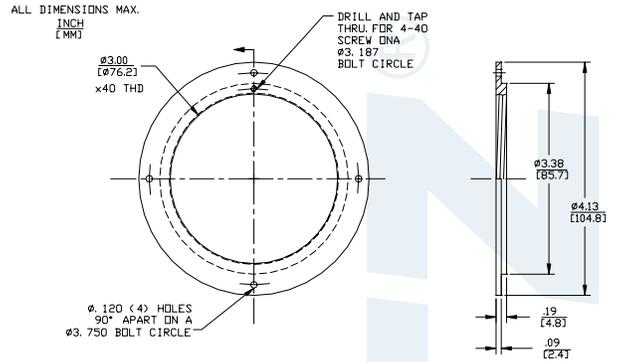


Figure 3

MICROSCOPE MOUNTING STYLES

21 ZEISS AXIOVERT TYPE MICROSCOPE MOUNT SET

The #21 mount set adapts specific #2 shutter housing types to a Zeiss type microscope configured with the Zeiss type Axiovert Ring Dovetail Mounts. No modification to the microscope should be necessary. A filter area is also provided to allow the user to install an optical filter between the light source and the shutter housing. All shutter types (LS or VS - excluding the CS45) can be configured with this mount set type. A clearance cutoff (1.38in/35.1mm from aperture center) is provided with the VS series only (see Figure 4).

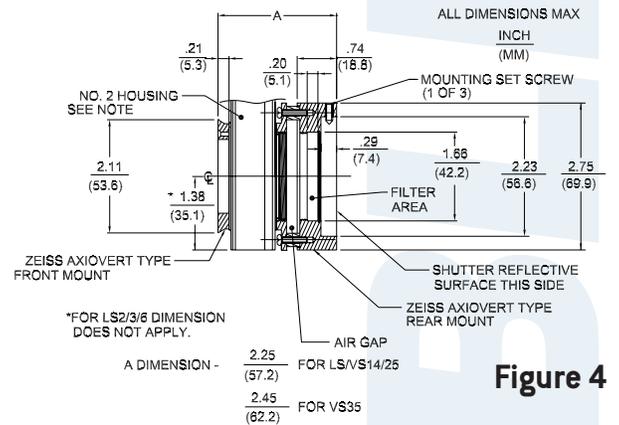


Figure 4

22 NIKON TYPE MICROSCOPE MOUNT SET

The #22 mount set adapts specific #2 shutter housing types to a Nikon type microscope configured with the Nikon SB-X1 and the SB-X2 mounts. Once the #22 mounts are fitted with the SB-X1 and the SB-X2 mounts, no modification to the microscope should be necessary. The #22 mount set can be attached to all shutter types (LS or VS - excluding the CS45). A clearance cutoff (1.38in/35.1mm from aperture center) is provided with the VS series only (see Figure 5).

The SB-X1 and SB-X2 mounts are not supplied by Vincent Associates. These must be purchased through an authorized Nikon dealer. Please use Nikon product numbers: 87503 (SB-X1) and 87504 (SB-X2).

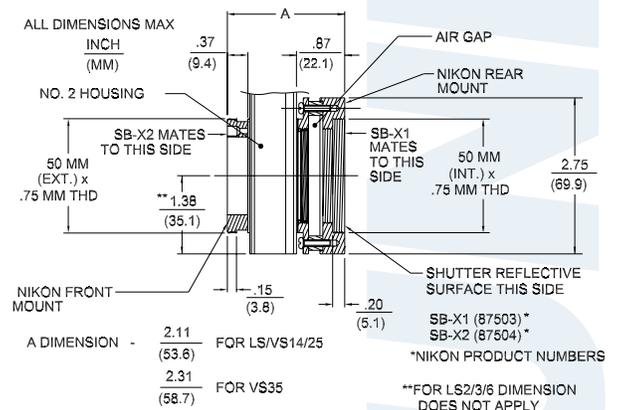


Figure 5

MICROSCOPE MOUNTING STYLES (continued)

23 OLYMPUS TYPE MICROSCOPE MOUNT SET

The #23 mount set adapts specific #2 shutter housing types to an Olympus type microscope. No modification to the microscope should be necessary. A filter area is also provided to allow the user to install an optical filter between the shutter housing and the microscope illuminator. The #23 mount set can be attached to all shutter types (LS or VS - excluding the CS45). A clearance cutoff [1.38in/35.1mm from aperture center] is provided with the VS series only (see Figure 6).

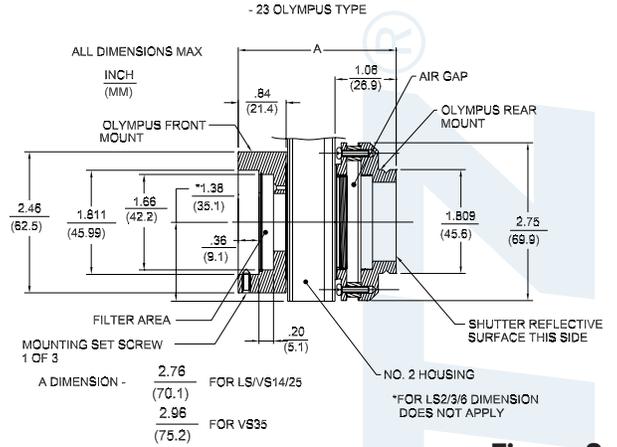


Figure 6

24 OLYMPUS TYPE MICROSCOPE MOUNT SET

The #24 mount set is the larger diameter counterpart to the #23 Olympus mount set. The #24 mount set adapts specific #2 shutter housing types to an IX or BX type Olympus microscope. No modification to the microscope should be necessary. A filter area is provided to allow the user to install an optical filter between the light source and the shutter housing. All shutter types (LS or VS - excluding the CS45) can be configured with this mount set type. A clearance cutoff [1.38in/35.1mm from aperture center] is provided with the VS series only (see Figure 7).

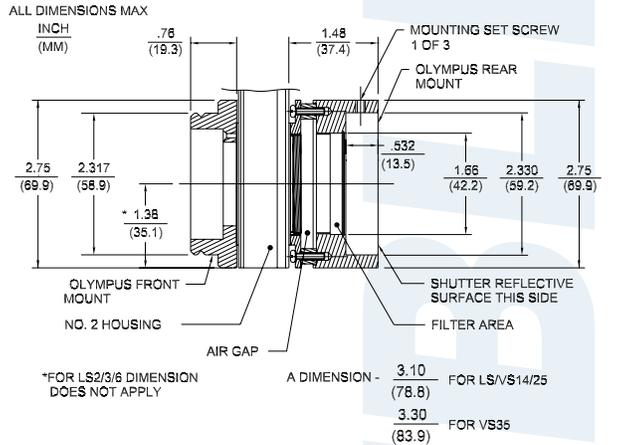


Figure 7

26 LEICA TYPE MOUNT SET

The #26 mount set adapts specific #2 housing types to the fluorescence light output of the DMR, DMRB, and the DMIRB type Leica microscopes. No modification to the microscope should be necessary. The #26 mount can be attached to all shutter types (LS or VS - excluding the CS45). A clearance cutoff [1.38in/35.1mm from the aperture center] is provided with the VS series only. (See Figure 8.)

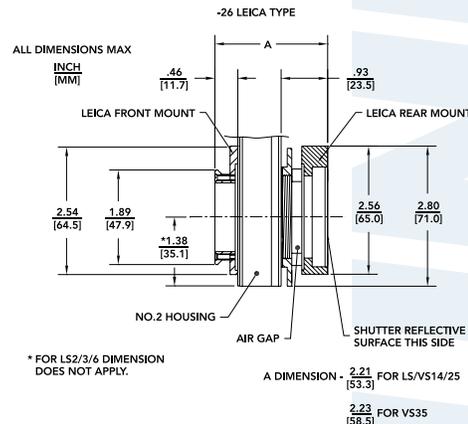


Figure 8

MICROSCOPE MOUNTING STYLES [continued]

27 NIKON TYPE MICROSCOPE MOUNT SET

The #27 mount set adapts specific #2 housing types to the Nikon type microscopes. No modification to the microscope should be necessary. This mount set is a replacement for the #22 mount set. The #27 mount can be attached to all shutter types (LS or VS - excluding the CS45). A clearance cutoff (1.38in/35.1mm from the aperture center) is provided with the VS series only (see Figure 9).

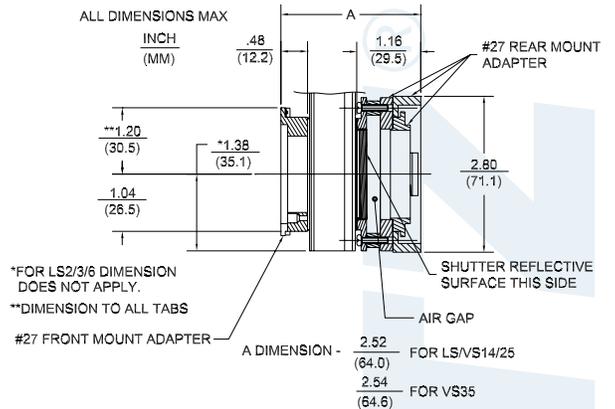


Figure 9

28 OLYMPUS TYPE MOUNT SET

The #28 mount set adapts specific #2 housing types (excluding the VS45 & CS45) to the transmitted light output of the IX-ILL100 or the IX-ILL100LH illumination pillars of the IX50 and IX70 Olympus type microscopes. The user would mount the mount plate/dovetail assembly of the #28 mount to the illuminator using user-supplied screws. No modification to the microscope should be necessary. A clearance cutoff (1.38in./35.1mm from the aperture center) is provided with the VS series only. (see FIGURE 10).

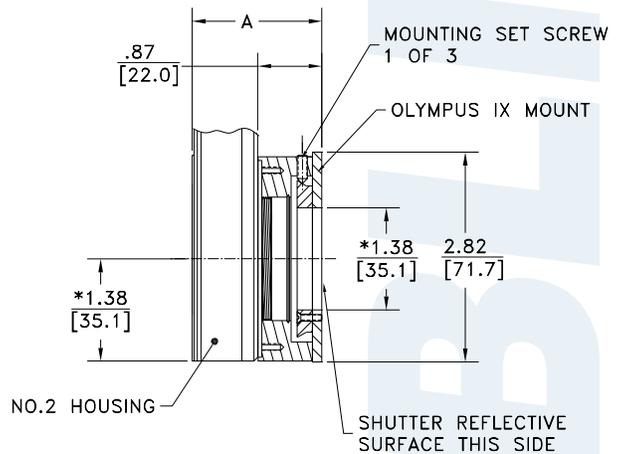


Figure 10

29 NIKON TYPE MOUNT SET

The #29 mount set adapts specific #2 housing types (excluding the VS45 & CS45) to the transmitted light output of the TE-300 type Nikon microscopes. The user can either attach the mount using the optical thread provided at the output of the TE-300 illuminator lens tube, or the mount can be secured directly to the TE-300 illuminator lens tube. No modification to the microscope should be necessary. A clearance cutoff (1.38in./35.1mm from the aperture center) is provided with the VS series only. (see FIGURE 11).

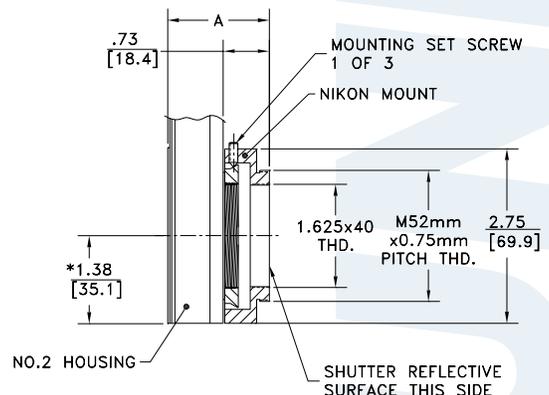


Figure 11

VIDEO MOUNTING STYLES

17 F-C VIDEO ADAPTER

The #17 video adapter systems adapts a shutter housing and a Nikon lens to a video camera that is equipped with C mount thread (1.00in x 32TP1). No modification to the camera should be necessary. The shutter unit replaces a standard F-C mount (see drawing for F-C mount outline for comparison). This adapter is available only with the VS14/25 shutter units and is integral to the housing. This configuration can also be ordered for the VS35 and CS45 shutter series. See figures 13 and 14.

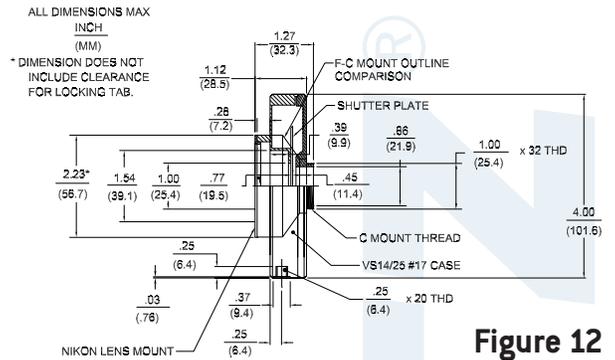


Figure 12

VS35 #17 "F" TYPE VIDEO ADAPTER

The VS35 #17 housing differs from the VS14/VS25 version given that the rear thread is a 2.00x40TPI thread. It can be adapted, using these threads, into user applications via the #125 Camelia Adapter or the #126 "F" Type Male Bayonet Adapter. See figure #13 for the unit's outline configuration.

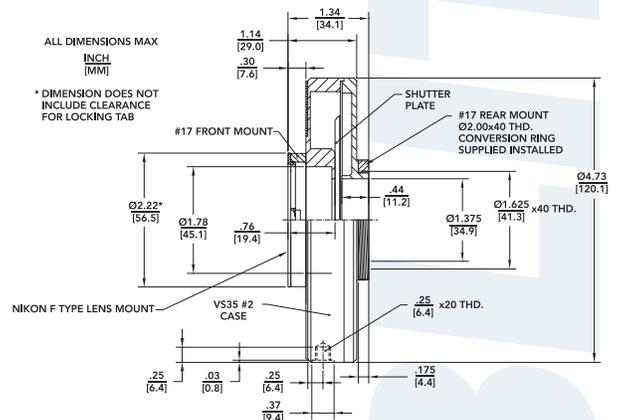


Figure 13

CS45 #17 "F" TYPE VIDEO ADAPTER

The CS45 #17 housing differs from the VS14/VS25 version given that the rear thread is a 2.00x40TPI thread. It can be adapted, using these threads, into user applications via the #125 Camelia Adapter or the #126 "F" Type Male Bayonet Adapter. See figure #14 for the unit's outline configuration.

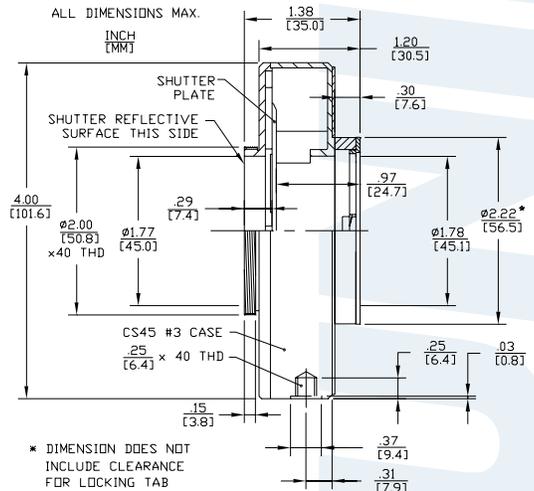


Figure 14

VIDEO MOUNTING STYLES (continued)

105 C MOUNT ADAPTER

The #105 C mount adapter flange adapts specific #2 shutter housing types to user equipment fitted with a C mount thread (1.00in x 32TPI). This adapter can be attached to the #2 housing rear surface (via the 1.625in x 40TPI thread) or the front surface (via three #2-56 flat head screws). The LS and VS14/25 series, only, can be configured with this flange type.

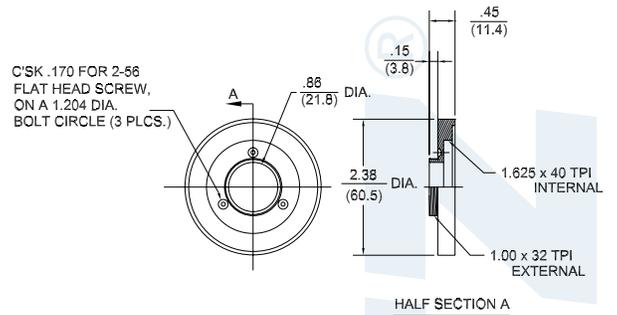


Figure 15

110 T MOUNT ADAPTER

The #110 T mount adapter flange adapts specific #2 shutter housing types to user equipment fitted with a T mount thread (42mm x 0.75mm pitch). This adapter can be attached to the #2 housing rear surface (via the 1.625in x 40TPI thread) or the front surface (via three #4-40 flat head screws). The VS14/25 and VS35 series, only, can be configured with this flange type.

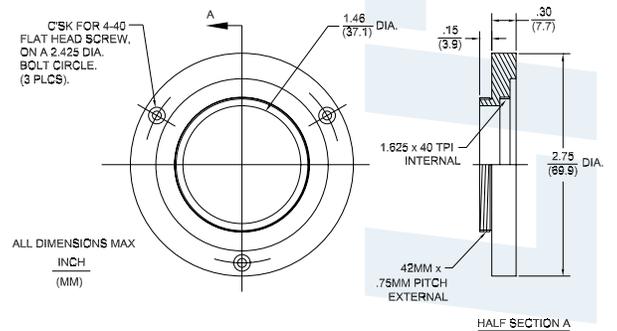


Figure 16

125 CAMELIA ADAPTER

The #125 CAMELIA type adapter is a mounting adapter to attach specific shutter housing types to user equipment fitted with a M51 x 0.75 mm pitch thread (see FIGURE 17). The adapter can be attached to the housing rear surface via the 2.00 inch x 40 TPI optical thread. The #125 adapter is intended for use with VS35, and CS45 series shutters equipped with the #17 "F" Type Video Adapter.

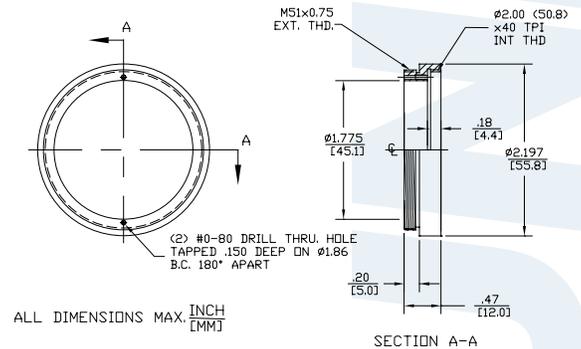


Figure 17