

# BEATTIE<sup>®</sup>

## INTENSCREEN

### By Reflexite

## INSTALLATION GUIDE FOR MEDIUM FORMAT CAMERAS

**INTENSCREEN** is a high efficiency optical device, which replaces standard focusing screens to provide a significantly brighter viewing. It consists of a special optically modified image surface and a precision plastic Fresnel lens matched to your class of viewing lenses. These may be two components or combined as one, depending on the camera make and model.

### HANDLING

Your Beattie Intenscreen®, like the screen it is intended to replace, is easily scratched. Handle as you would an expensive camera lens, i.e., wash hands thoroughly and dry. Handle pieces by edges only.

### INSTALLATION

In most cases, medium format screens are simply drop-in screens. Models for which the screen is not in a frame (Hasselblad 500C, 500EL and Pentax 6x7) should be installed by an approved camera repair center and recalibrated for image / film focus plane coincidence.

Your focusing screen is comprised of two surfaces. One is a Fresnel lens for light concentration and the other a diffused matte surface for focus contrast. The Fresnel surface is a series of concentric grooved rings – this is the shiny side. The matte surface has a frosted appearance and is the dull side.

**NOTE: IF YOU HAVE QUESTIONS REGARDING INSTALLATION, CONTACT YOUR LOCAL DEALER OR CONSULT YOUR CAMERA OWNERS MANUAL.**

### FOCUS CHECK

**ALWAYS TAKE TEST SHOTS BEFORE PUTTING TO USE.** Familiarize yourself with focusing characteristics of the Intenscreen with all your lenses at normal and low lighting. Out of focus conditions can arise from screens not seated properly in their frames or components installed upside down.

Check the light metering system (refer to your owners manual). If the light meter reads off the viewing screen, it should be recalibrated. Using your existing screen, set camera lens at infinity looking at an evenly illuminated grey card and note the meter reading. Install Intenscreen and move the ASA/ISO index dial until the meter needles returns to the old screen reading, if present exposure compensation dial should be at zero. Record this offset and save for future reference.

### CLEANING

Clean screens using a mild dishwashing liquid diluted in the ratio of 1 drop liquid to 1 cup warm water. Framed screens cannot be immersed. Dip unscented tissue in cleaning solution, squeeze out excess water and wipe lightly. Rinse with second tissue and then use a third tissue to blot dry. Use canned dry air to remove dust particles. **NEVER USE GLASS CLEANERS ON INTENSCREEN COMPONENTS.**

### PENTAX 645 AND MAMIYA 645 SUPER

1. Remove camera lens.
2. Push or press screen latch allowing screen frame to drop down.
3. Remove existing screen with tweezers.
4. Replace with Intenscreen using tweezers on the projecting tab.
5. Lay in tray with tab correctly positioned.
6. Raise frame up until the latch clicks into position.

### ROLLIFLEX TLR & SLX, SL66, SL66e, SL6006, SL6008

1. Raise viewer frame and take existing screen out.
2. Insert Intenscreen, matte side down, into the two clips at the bottom of the raised frame. Push gently all the way down. Close frame.

### MAMIYA C330F

#### Disassembly

1. Open bellows ½".
2. Push lock lever, front center of frame, toward 90°.
3. Remove nut at center-rear.
4. Tilt front of frame up and pull screen off locating pins.

#### Assembly

1. Turn frame upside down with screw knob pointing away from your body.
2. Swing lever on left center to left.
3. Loosen clip on right (1/2 to ¾ turn on screw).
4. Slide out old screen.
5. Clean cover glass and brush away lint.
6. With frame upside down, Intenscreen matte side up and two tabs to the right, insert Intenscreen under clip on right, lay screen down, swing clip to the left over the left tab.
7. Inspect to ensure that screen and glass are clean.
8. Retighten right hand clip screw.
9. Reinstall in camera.

### MAMIYA C330S

1. Remove viewing hood.
2. Press screen latch to remove existing screen
3. Place Intenscreen frame (matte side down, grooved side up) so that the large bevel is in the left rear corner.
4. Lower the upper frame gently and make sure latch locks it down.
5. Replace viewing hood.

### PENTAX 6x7

Your Pentax 6x7 Intenscreen should be installed by an authorized Pentax repair center of a qualified camera repair center. Please show these instructions to the repair technician.

1. Remove viewer
2. Remove outer and inner screen frames and screws and set aside.
3. Remove all 3 Pentax screen elements.
4. Replace bronze wave spring in screen well.
  - a. Place Beattie Intenscreen on top of wave spring – **MATTE SIDE DOWN.**
5. Place original Pentax clear cover glass on top of the Intenscreen. Be sure that both pieces are clean with no dust between them.
6. Replace the inner frame and the three (3) screws.
7. Calibrate the film plane focus to the screen focus.
8. After fastening the screws, seal with a small amount of clear nail polish.
9. Replace the screen's outer frame, two post screws and two small screws.

The Intenscreen installation consists of the Beattie Intenscreen piece (matte side down) with the original clear Pentax cover glass on top.  
**DO NOT USE ANY OTHER ORIGINAL SCREEN COMPONENTS.**

### MAMIYA RZ67

1. Remove viewer.
2. Remove the original screen by lifting the tab on the right hand side.
3. Place Beattie Intenscreen (matte side down) and slide the two left shiny cone shaped pins into the two brackets on the camera body.
4. Press the right hand side down until the right cone shaped pin goes into the bracket.
5. Replace viewer.

### MAMIYA RB67 with Frame

1. Remove viewer.
2. Remove the original screen by lifting tabs on sides.
3. Place Beattie Intenscreen (with matte side down).
4. Replace viewer.

### MAMIYA RB67 without Frame

To install the components in your frame, you will need a #3 or 5/64 screwdriver and a pair of long-nosed curved fine-point tweezers.

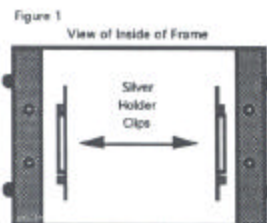
#### Disassembly

1. Turn frame upside down and remove the two holder clips (4 screws). Place clips and screws in a safe place, as they are easily lost.
2. Remove both pieces of the Mamiya screen. Clean, wrap and store as spare parts. (See sketch below)

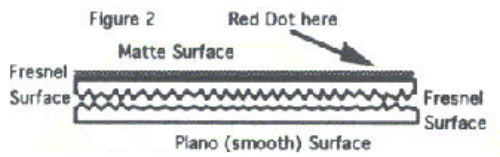
With frame still upside down, you are ready to assembly the Beattie Intenscreen pieces into the empty Mamiya frame.

#### Assembly

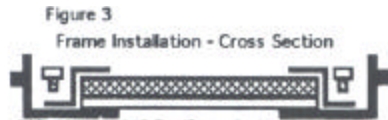
1. Make sure both lenses are free from dust. Use sable brush to clean.
2. Place both lenses together as follows (refer to Figure 1):
  - a. Thin transparent lens on bottom – plano (smooth) side facing down.
  - b. Thick translucent lens on top – matte side up. Red dot in corner indicates matte side. Place combined lenses into frame (center in frame with red dot up).



3. Replace RB holder clips – fasten the two silver spring clips over the screen to the frame to hold the screen in place (4 screws required). See figure 2.



4. Make sure that the screen is centered in the frame before tightening the screws.
5. When the whole assembly is installed in camera, make sure the matte side is facing the reflex mirror, the shiny / smooth side is upward.



#### MAMIYA 645 (Mamiya 645 Pro/Super on previous page)

1. Remove viewer.
2. Remove the original screen, lifting the two silver screws.
3. Drop Beattie Intenscreen in the camera with the matte side down (the two big black tabs must be on the back side).
4. Replace viewer.

#### FUJIFUJI GX680

1. Remove viewer
2. Release latch on right hand side.
3. Remove the original screen
4. Please Beattie Intenscreen, matte side down, in camera.
5. Switch the latch back to the original position
6. Replace viewer.

#### BRONICA SQ/SQA

1. Remove viewer.
2. Slide screen holder latches toward ASA dial.
3. Remove the original screen with a pair of tweezers 0 use the tab by the ASA dial.
4. Place Beattie Intenscreen into the camera with the matte side down and the tabs in the original position.
5. Slide holder latches back into position.
6. Replace viewer.

#### BRONICA ETR/ETRS

1. Remove viewer
2. Slide the thicker silver pin to the left.
3. Remove the original screen.
4. Place the Beattie Intenscreen with the smaller tab pointing away from you and with the matte side facing the camera reflex mirror.
5. Replace viewer.

#### BRONICA GS1

1. Remove viewer.
2. Slide both screen holder levers out.
3. Remove the original screen with a pair of tweezers – use tab by manual film winder.
4. Place Beattie Intenscreen in the camera with matte side down and the tabs in the original position.
5. Slide holder levers back into position.
6. Replace viewer.

#### HASSELBLAD 500 CM OR 500 CM WITH SPLIT IMAGE (45° OR 90°)

1. Remove viewer.
2. Push two latches in.
3. Remove the original screen.
4. Drop Beattie Intenscreen in the camera with the sharp edges of the screen frame facing the camera reflex mirror.
5. Replace viewer.

#### LIMITED WARRANTY

Reflexite® Display Optics, warrants that its products shall be free from defects in materials and workmanship under normal use and service for a period of one year from original date of purchase. Reflexite's obligation under this warranty is limited to repairing or replacing (at its choice) any Beattie Intenscreen® product deemed defective upon return from customer. This warranty DOES NOT cover scratches or other damage caused by improper installation, tampering, misuse, abuse or altering.

File this with your important papers. It must accompany any warranty claim.

Covered by one or more of the following US Patents: 4339188 (07/31/82) and 4558922 (12/17/85).

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