



INTENSCREEN™ INSTALLATION GUIDE FOR MEDIUM FORMAT CAMERAS

INTENSCREEN™ is a high efficiency optical device which replaces standard focusing screens to provide 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 screen, 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 6 x 7) should be installed by approved camera repair centers 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, ASK YOUR DEALER, CONSULT YOUR CAMERA OWNERS MANUAL OR CALL BEATTIE AT 1-800-251-6333 OR (423) 479-8566.

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 owner's 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 needle returns to the old screen reading. (If present, the exposure compensation dial should be at zero.) Record this offset and tape to back of camera for future reference.

CLEANING

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

Pentax 645 and Mamiya 645 Super

Remove camera lens. Push or press screen latch allowing screen frame to drop down. Remove existing screen with tweezers. Replace with INTENSCREEN™ using tweezers on the projecting tab. Lay in tray with tab correctly positioned. Raise frame up until the latch clicks into position.

Rolleiflex TLR & SLX, SL66, SL66E, SL6006, SL6008

Raise viewer frame, take existing screen out. Insert INTENSCREEN™ matte side down in the two clips at bottom of raised frame. Push gently all the way down. Close frame.

Mamiya C330F

Disassembly

1. Open bellows 1/2 inch. Push lock lever, front center of frame forward 90 degrees. Remove nut at center-rear. Tilt front of frame up and pull screen to rear off locating pins.

Assembly

1. Turn frame upside down with screw knob pointing away from body. Swing lever on left center to left. Loosen clip on right (1/2 - 3/4 turn on screw). Slide out old screen. Clean cover glass and brush away lint.
2. With frame upside down, INTENSCREEN™ matte side up, two tabs to right, insert under clip on right, lay down, swing clip to left over left tab. Inspect to ensure that screen and glass are clean. Re-tighten right hand clip screw.
3. Reinstall in camera (see 1) in reverse order.

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 6 x 7

Your Pentax 6 x 7 Intenscreen™ should be installed by a Pentax authorized repair center or 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.
5. Place Beattie Intenscreen™ on top of wave spring - **MATTE SIDE DOWN**
6. Place the original Pentax clear cover glass on top of the Intenscreen™. Be sure that both pieces are clean with no dust between them.
7. Replace the inner frame and the three (3) screws.
8. Calibrate the film plane focus to the screen focus.
9. After fastening the screws, seal with a small amount of clear nail polish.
10. Replace the screen's outer frame, two post screws and two small screws.

NOTE: Please Check !!!

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 RB67

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 two brackets on camera body. Press the right hand side down until the right cone shaped pin goes in to the bracket.
4. Replace the viewer.

Mamiya RB67 w/ Frame

1. Remove viewer.
2. Remove the original screen by lifting tabs on sides.
3. Place Beattie INTENSCREEN™ (matte side down).

4. Replace the viewer.

Mamiya RB67 w/o Frame

To install the components in your frame, you 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 (these tiny screws are easily lost).
2. Remove both pieces of Mamiya screen. (Clean, wrap and store as spares.) See sketch below. With frame still upside down, you are ready to assemble 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. Then 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 RB67 Installation

Figure 1
View of Inside of Frame

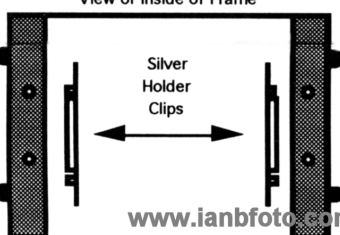
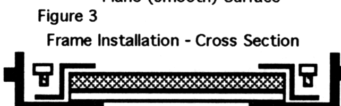


Figure 2
Red Dot here
Matte Surface
Fresnel Surface
Plano (smooth) Surface



Mamiya 645

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

Fuji GX680

1. Remove viewer.
2. Release latch on right hand side.
3. Remove the original screen.
4. Place Beattie INTENSCREEN™ (matte side down) in camera.
5. Switch the latch back to original position.
6. Replace the 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 - use tab by ASA dial.
4. Place Beattie INTENSCREEN™ in the camera with matte side down and the tabs in the original position.
5. Slide holder latches back into position.
6. Replace the viewer.

Bronica ETR/ETRS

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

Hasselblad 500CM or 500CM w/ Split Image (45 or 90°)

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

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

LIMITED WARRANTY

Beattie Systems, Inc. (BSI) 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 date of original purchase. BSI's obligation under this warranty is limited to replacing defective parts or repairing defective workmanship upon the return of the product to BSI. BSI will not provide warranty service if your product shows that it has been tampered with, misused, abused or altered.

FILE THIS WITH YOUR IMPORTANT PAPERS. IT MUST ACCOMPANY ANY WARRANTY CLAIM.