

Section 11—Slide Capture

Digital Imaging Workflow for Treatment Documentation

Conservation Division, Preservation Directorate, Library of Congress

SLIDE CAPTURE

Section 11—Slide Capture



Figure 11.01

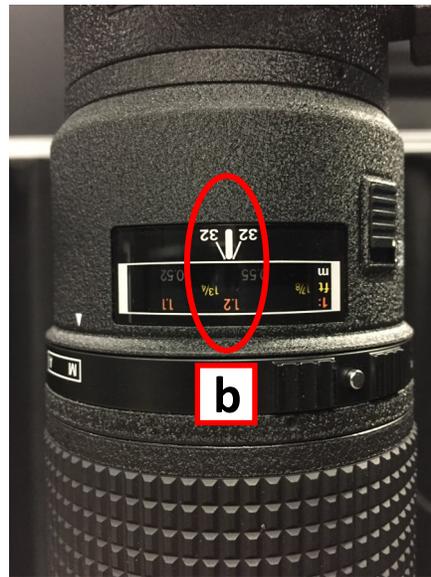
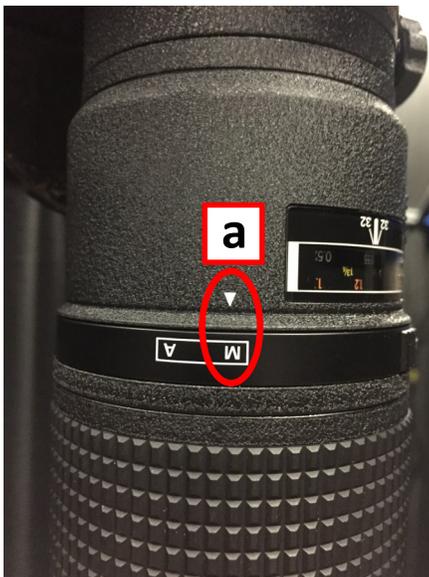


Figure 11.02

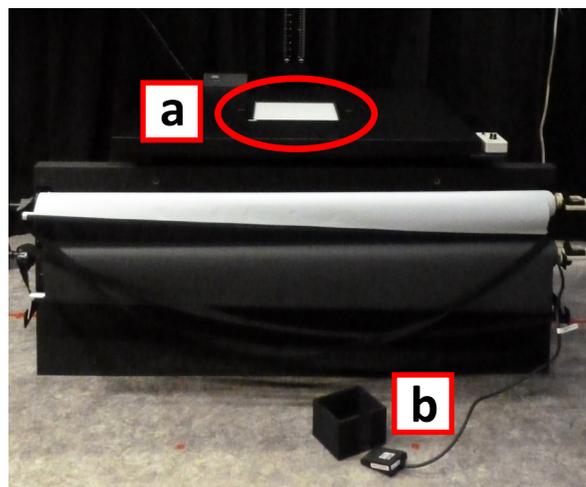


Figure 11.03

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Capture

Preliminary

Slide capture is similar to normal illumination capture. Follow the instructions for normal illumination capture (Section 2) with the modifications below.

Set Up

1. Mount the 200 mm lens on the D810 camera body. Attach the assembled body and lens to the copystand using the upper threaded hole of the tripod collar on the lens (fig. 11.01).
2. Confirm on lens: *M* focus mode (fig. 11.02a).
3. Confirm on lens: *1:2* reproduction ratio (fig. 11.02b).
4. Confirm on lens: *FULL* focusing limit (fig. 11.02c).
5. Adjust the camera height so that the bottom of the copystand collar is at 22”.
6. Remove the mat board that covers the base of the copystand to reveal the transmitted light box (fig. 11.03a). Remove the foot pedal from its box, located on the floor to the right of the copystand, and use it to turn on the light source (fig. 11.03b).

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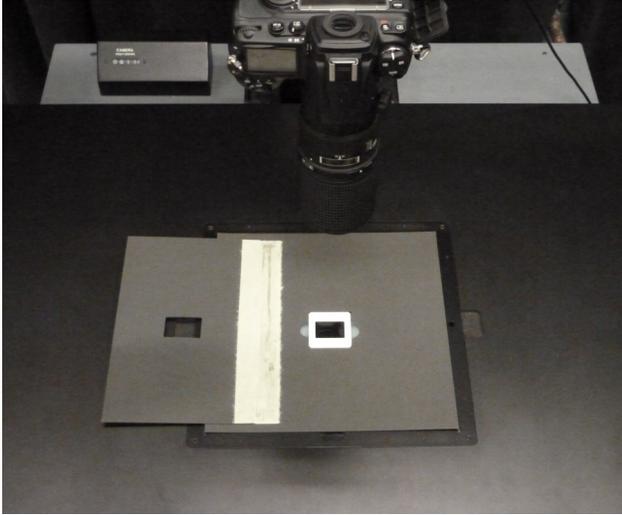


Figure 11.04

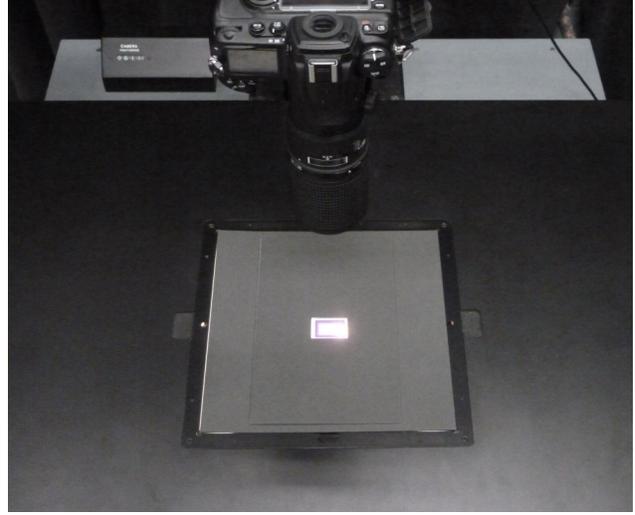


Figure 11.05

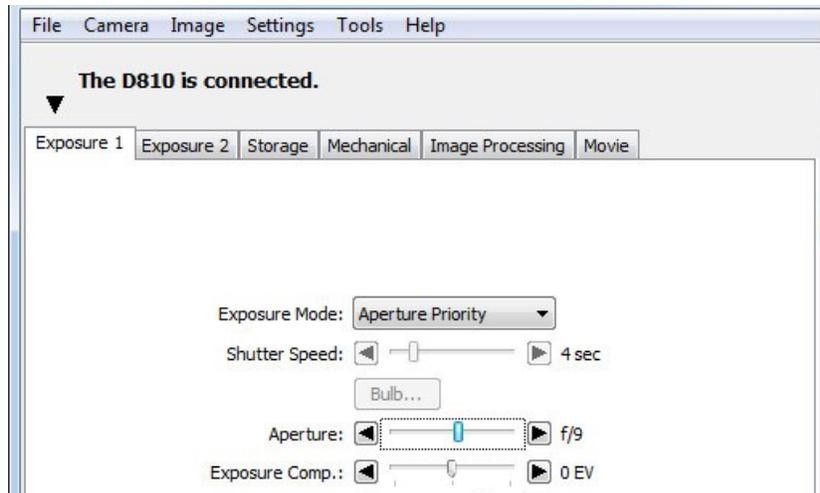


Figure 11.06

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White Balance

1. Measure white balance with the light source filling the image frame.
2. In **Camera Control Pro**, select *Camera > Measure White Balance*.
3. In the window that opens, select *Preset manual d-0*. Click *OK*.

Image Capture

1. Place the black slide positioning mask (stored in the studio cabinet) on the light source and place the slide, emulsion (dull) side down, in the opening of the positioning mask (fig. 11.04). Fold the overmask back on top (fig. 11.05).
2. In **Camera Control Pro** under the *Exposure 1* tab, select the following (fig. 11.06):
 - Exposure Mode: Aperture Priority
 - Aperture: f/9
 - Exposure Comp.: 0
3. Under the *Exposure 2* tab, select *White Balance: Preset manual d-0*.
4. Settings under the *Storage* and *Image Processing* tabs are the same as with normal illumination (page 2.13).
5. Open *Live View*. Set the magnification ratio to 100%. With the overhead light on, use the focusing ring on the camera lens to manually focus. The focus frame will remain red.
6. Turn the overhead light off. Press *Shoot*.

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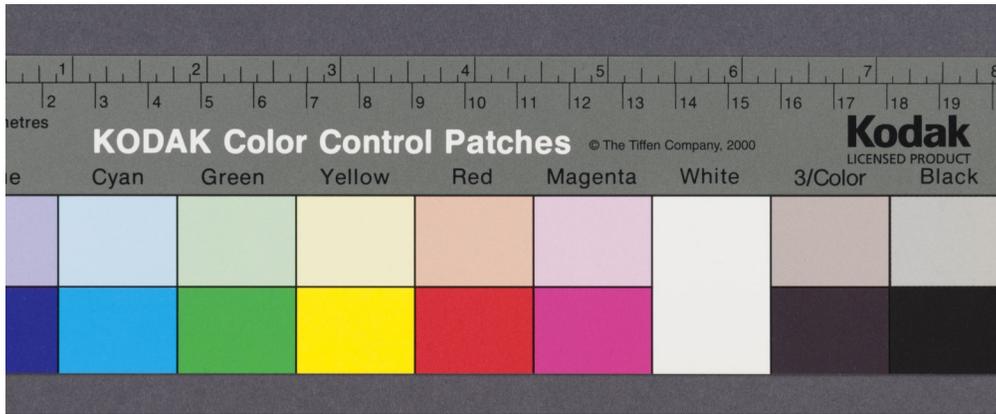


Figure 11.07

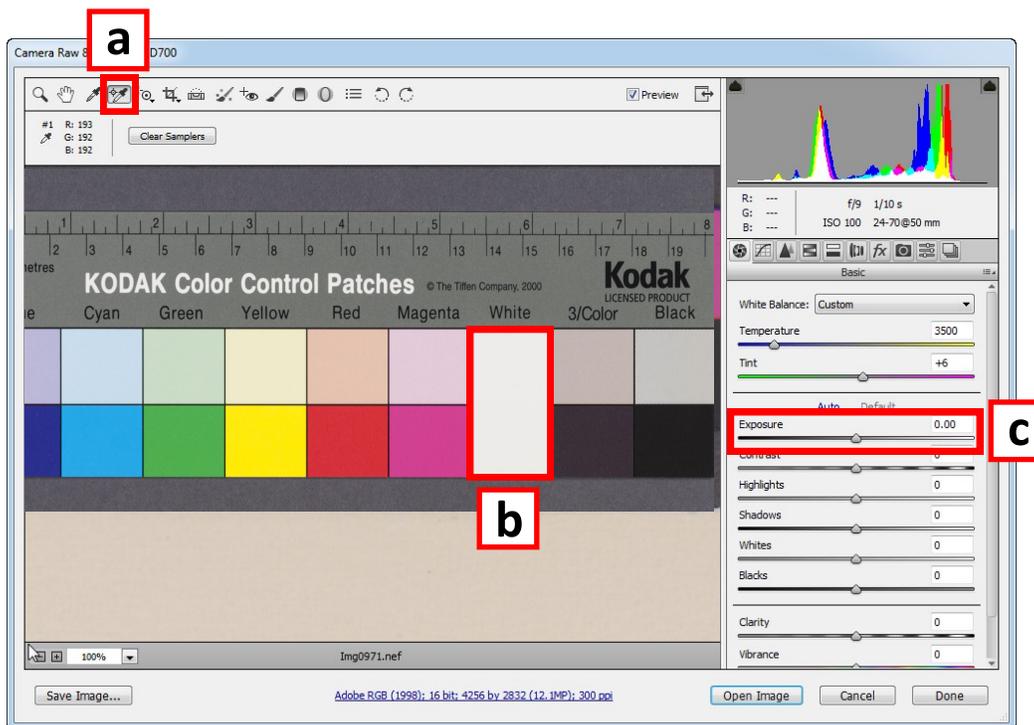


Figure 11.08

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Preview Images

1. In **Bridge**, open the image in **Camera Raw**.
2. If the slide contains a Kodak Q13 color target (fig. 11.07), use the white patch to help evaluate exposure. Select the second *Color Sampler Tool* (fig. 11.08a) and click on the white patch on the color target (fig. 11.08b).

NOTE: The Q13 target is not neutral; do not use it to white balance.

3. Adjust *Exposure* (fig. 11.08c) to achieve RGB values of 225 +/-5. If necessary, adjust *Exposure Comp.* in the *Exposure 1* tab of **Camera Control Pro** and reshoot. Reevaluate in **Camera Raw**.

Finish

Finish the photography session as done with normal illumination (Section 2). In addition, **turn off the transmitted light source**, replace the mat board on the copystand base, and replace the foot pedal in its box. Remove the 200 mm lens and reattach the 60 mm lens to the camera body.

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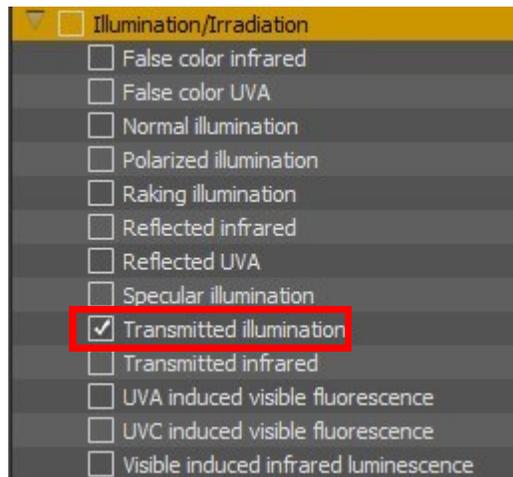


Figure 11.09

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Metadata

Add metadata as you would for normal illumination except when applying *Keywords* (Section 3). Choose *Transmitted illumination* under Illumination/Irradiation (fig. 11.09).

Image Processing

Adjust Image Files

1. In **Bridge**, open the image in **Camera Raw**.
2. Sharpening, straightening, cropping and confirming workflow procedures are the same as with normal illumination images (Section 4).
3. Click *Done* to save your adjustments.

Rename and Save

Follow the instructions in Section 4 for renaming and to create .dng archive files and .tiff derivative files.