



Note! This test is required for both digital and film intraoral x-rays. Start with the appropriate section in red.

Instructions - DIQUAD Analyzer™ User's Guide

***** Read these instructions carefully before using the Analyzer to test your most frequently used intraoral x-ray unit. *****

If you do not have intraoral x-ray equipment, please e-mail the Radiologic Health Branch at RHBDIQUAD@cdph.ca.gov and customerservice@DIQUAD.com immediately. Please include your X-Ray Facility Registration Number (CA-00000) from the enclosed letter. IF you are not able to complete this test please fill out #’s 1-5 and #12 on Data Form and return data form and analyzer box in the pink postage-paid envelope.

Digital Imaging Instructions

1. Remove the Analyzer and Data Form from the Envelope.
2. Create a patient file in your computer and use the name DIQUAD.
3. Shape the flat Analyzer into a pop-up box and fold the long tab into the inside of the box. (See Figure 1)
4. Select the exposure time or number of pulses you would use for an adult bitewing x-ray and then record this information, along with the kVp and mA, in Item #8 of the data form.
5. Place your digital sensor (connected with a wire) inside the box aligned with the film packet or the blue rectangle (Figure 2)
6. Make sure the flat side of the sensor is facing up, toward the x-ray tube. Use a piece of tape to assure that the flat side of the sensor remains upright and stable. (Figure 2)
7. If you are using Phosphor Plates (PSP plates) place your plate inside the box and align it with the blue lines in the same manner as the black digital sensor. (Figure 2)
8. Turn on your digital imaging system.
9. Make **a single x-ray exposure** with the x-ray tube and cone tip, or PID, positioned centered over Analyzer box. (Figure 2)
(If you accidentally make more than one exposure please note the number of exposures in Item #12 [Comments] on the Data Form.)
10. If you are using a photostimulable phosphor (PSP) plate, load the plate into your scanner (reader) and proceed as you would for a patient image. For either method of imaging, an image will appear on your display similar to that in Figure 3.
11. Save the digital test image as a permanent, patient file with the name of DIQUAD.
12. Make sure the **digital test image** is in either .TIF or .JPG format (*paper prints and screen shots are not acceptable*).
13. Choose **one** of the following options for returning the digital test image to DIQUAD.

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Figure 1. Analyzer box.
Note tab protruding from the box.



Figure 2. Digital sensor (connected with wire) positioned inside Analyzer with tape holding it in place. **Note—The flat side of the detector should be facing up toward the x-ray tube.**



Figure 3. Image of Analyzer.

14. *After you upload or email your image, please return the DIQUAD Analyzer Box and Data Form to DIQUAD in the pink postage-paid envelope in your packet.* These must be returned to complete your test. (see below)

- a. Go to www.DIQUAD.com, click on “Upload Test Images”, fill in the necessary information (click on “Browse”, select your image, click on “Open”, and then click on “Submit Form”) **OR**
- b. E-mail the digital test image to CustomerService@DIQUAD.com. Be sure to include the Analyzer Serial Number, your Facility Registration Number (upper left of Data Form), the dentist’s or practice name, address and phone number in the body of the e-mail.

When all steps are completed, (#’s 1-14a/b) return the Data Form and Analyzer box in the pink postage-paid envelope.

Film Imaging Instructions

1. Remove the Analyzer & Data Form from the Envelope.
2. Shape the flat Analyzer into a pop-up box and fold the long tab into the inside of the box. (See Figure 1)
3. Bring the x-ray tube over the Analyzer box and place the cone tip (centered) just above the box. (See Figure 2)
4. Select the exposure time or number of pulses you would use for an adult bitewing x-ray and then record this information, along with the kVp and mA, in Item #8 of the data form. If your facility does only pediatric patients, use the exposure time or number of pulses you would select for your largest patient.
5. Make a single x-ray exposure. ***There is intraoral film inside the film packet.***
6. In the darkroom, open the dental film packet and remove the film.
7. Develop the film as you would patient films.
8. The image on the developed film will look similar to Figure 3.
9. Fill in the required information on the Data Form from the x-ray unit you just tested.
10. ***Please return the DIQUAD Analyzer Box, Data Form, and the Developed film to DIQUAD in the , postage-paid envelope in your packet..***

**Questions?? Call DIQUAD
toll-free 1-866-498-1662
Or 708-756-7338**

Thank you for assisting with the testing of your x-ray equipment.

Additional information can be located on our website at www.DIQUAD.com