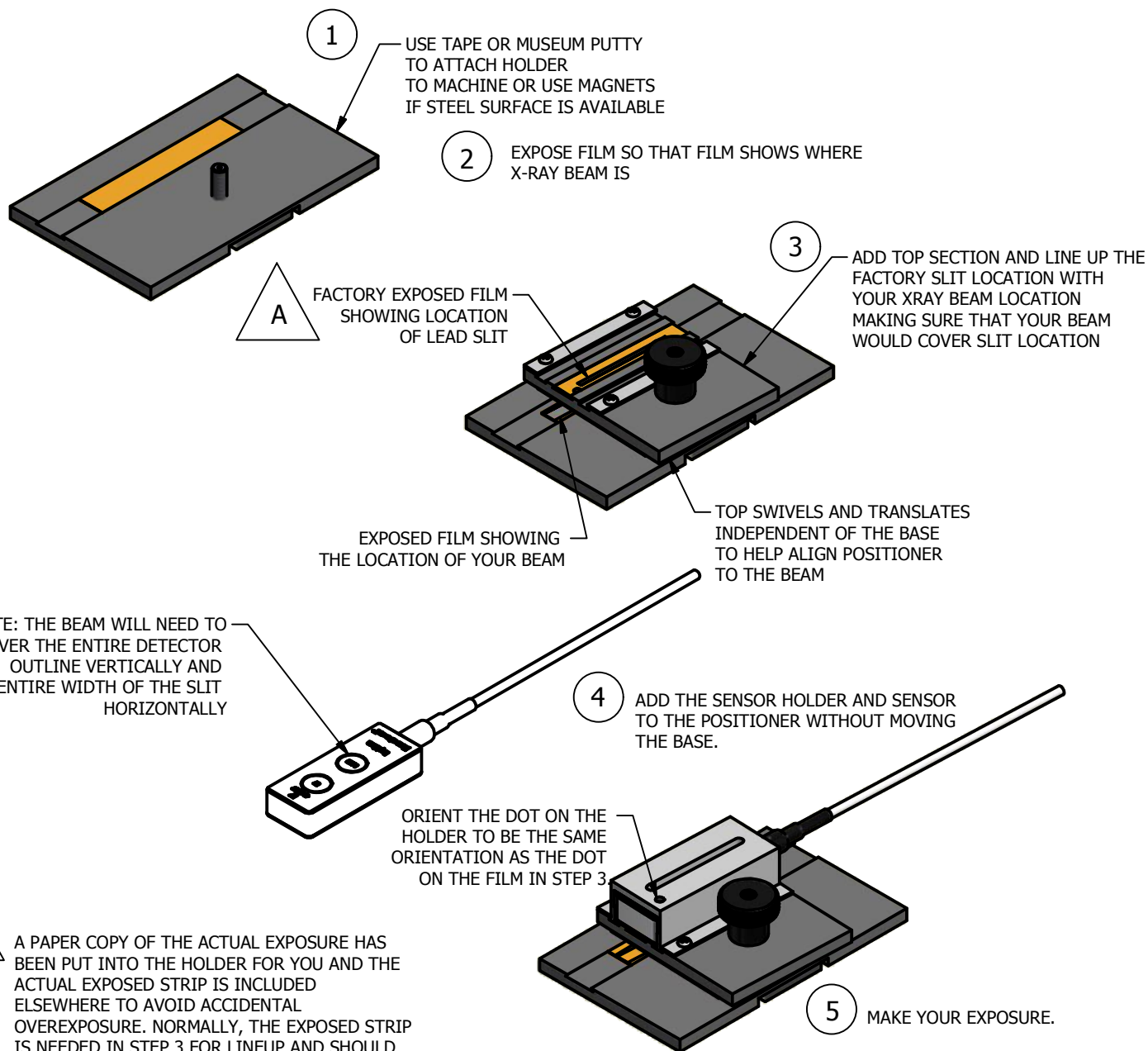# Model 8462C Multi-Sensor Pan-Dental Positioner

The Model 8462C Multi-Sensor Pan-Dental Positioner has been designed to facilitate attaching and reliably positioning a Rapidose, Accu-Gold, or Rapid-Gold Multi-Sensor on many types of panoramic dental systems. It is intended to be used for reproducibility measurements of the machine.

The sensor is installed in the positioner and is attached to the moving x-ray head while the digitizer module is stationary. Since the collimation on panoramic machines only partially exposes the detector, a lead slit is used in order to reliably produce repeatable measurements. As a result of this, the actual Dose and kV readings displayed by the software will be some fraction of the actual machine setting. However, the dose readings will be consistent from exposure to exposure and the timing information will be correct.

The positioner is designed to use Gafchromic (XRQA2) self-developing x-ray film to determine the location of the x-ray beam. A number of film strips have been included to get you started and additional strips can be obtained from Radcal or a Gafchromic film distributor (www.gafchromic.com).

Radcal would appreciate any feedback on the usage of this positioner and any suggestions for improvement.

1 USE TAPE OR MUSEUM PUTTY TO ATTACH HOLDER TO MACHINE OR USE MAGNETS IF STEEL SURFACE IS AVAILABLE

2 EXPOSE FILM SO THAT FILM SHOWS WHERE X-RAY BEAM IS

A FACTORY EXPOSED FILM SHOWING LOCATION OF LEAD SLIT

3 ADD TOP SECTION AND LINE UP THE FACTORY SLIT LOCATION WITH YOUR XRAY BEAM LOCATION MAKING SURE THAT YOUR BEAM WOULD COVER SLIT LOCATION

EXPOSED FILM SHOWING THE LOCATION OF YOUR BEAM

TOP SWIVELS AND TRANSLATES INDEPENDENT OF THE BASE TO HELP ALIGN POSITIONER TO THE BEAM

NOTE: THE BEAM WILL NEED TO COVER THE ENTIRE DETECTOR OUTLINE VERTICALLY AND THE ENTIRE WIDTH OF THE SLIT HORIZONTALLY

4 ADD THE SENSOR HOLDER AND SENSOR TO THE POSITIONER WITHOUT MOVING THE BASE.

ORIENT THE DOT ON THE HOLDER TO BE THE SAME ORIENTATION AS THE DOT ON THE FILM IN STEP 3.

A A PAPER COPY OF THE ACTUAL EXPOSURE HAS BEEN PUT INTO THE HOLDER FOR YOU AND THE ACTUAL EXPOSED STRIP IS INCLUDED ELSEWHERE TO AVOID ACCIDENTAL OVEREXPOSURE. NORMALLY, THE EXPOSED STRIP IS NEEDED IN STEP 3 FOR LINEUP AND SHOULD BE REMOVED BEFORE MAKING EXPOSURES. THE PAPER COPY OF THE EXPOSURE CAN BE LEFT IN PERMANENTLY.

5 MAKE YOUR EXPOSURE.

MULTISENSOR PAN-DENTAL POSITIONER MODEL 8462C