




Shimadzu Mobile DaRt Evolution

Step #3 Adjusting the FVR (KV) Value

1. Press the remote control key.  This will change the value in the KV display window from [80KV] to the last RECORDED value from the previous X-Ray tube that was on the DaRt Evolution. (In our diagram it has changed to displaying **3.86** in the KV window.)

NOTE: RAY-PAC calibrates each Shimadzu X-ray tube as part of the standard testing procedure using RAY-PACs DaRt Evolution. The Two Point FVR (KV) values for both the Small and Large Focal Points are supplied in the paper work accompanying your RAY-PAC X-Ray tube. Be sure to press the Registration Key  to RECORD any KV changes or the DaRt evolution will not adjust all the points automatically.

2. You can make a test exposure by pressing the button on the exposure switch half way down to start the precharge sequence. Once the precharge light comes on over the KV window you can press the hand switch button the rest of the way down to make the exposure. After the exposure both values in the KV window and mAs window will change. The goal is to get the mAs value as close to the preset 50mAs value. If the mAs value is below 50mAs than the tube voltage (KV) needs to be raised and another test exposure made. Shimadzu recommends that measured tube current value is within -15% to $+5\%$.

3. Once the 50mAs is adjusted and RECORDED, press the (+) button under the mAs display to change to the second point (200 mAs) in the small focal area. Press the Large / small Focal point Adjustment Key  and it will move to the large Two Point focal area.

