Instructions for using the remote RWS test tool

Before assembling the test tool please bring up the AAPM-QC pattern from your PACS onto both monitors. Set the lighting conditions for your office to that which you normally use for viewing mammograms.

Please write down the last visible letter of the Quality Control word for the light, medium, and dark sections for both the left and right monitors.

Then for each monitor please confirm that you can visualize the tiny squares in the corners of the density squares 2 thru 17.

(These previous steps are required because we cannot do this for you from the photograph because the camera adds a lookup table over the image.)

The AAPM-QC pattern should be in your PACS system already. If you are having trouble finding the pattern, please consult your PACS administrator. If it is necessary to reload an AAPM QC pattern into PACS then patterns can be downloaded from

https://yaffegrp.sri.utoronto.ca/OBSP/Physicist/Physicist_Tools/Patterns/CD1/

Your RWS probably came with a monitoring program installed on the computer; for example, most BARCO systems have “MedicalQA” monitoring program installed.

Please have the program run a check and report on the monitors. Please save the reports and e-mail them to me.

Assembling and using the test tool

The test tool consists of two parts, a work light and a box containing a film stepwedge. The test tool was assembled and the brightness of each step was recorded, prior to being disassembled for shipment.

This worklight was selected because it has a high density COB LED arrangement of lights and a USB charging port. The electronics in the lamp for charging the battery also ensure a stable light output for a long period of time.

On the back of the lamp are four tiny blue LED's which will light up once the lamp is switched on. These indicate the state of charge in the battery. All four lights should be on indicating that it is fully charged before we use the system. When I shipped the lamp, it would have been fully charged. However, in case it has become discharged during shipping, you can top it up using the enclosed USB cord. The USB charging port is on the back of the lamp below the indicator LED's.

The base of the lamp is heavy and adjustable so that it can be positioned to stand upright; and, the base is also magnetic so that you can stick it onto a metal can (e.g. can of peas) to raise the height if needed.

Fully insert the worklight into the slot on the stepwedge box and turn the on/off/brightness wheel to the on position. Now turn the wheel back until it is about to switch off. This is the brightness that was used to record each step before it was sent to you, and this is the setting that we will use when you take a photograph of it.

Place the lamp and stepwedge upright and just touching the monitors between the left and right monitors.

Please use your camera and take three images. The first image should show both monitors (with the lamp); the second image should be the left monitor (with the lamp); and, the third image should be the right monitor (with the lamp).

Obviously, when taking the photographs, the camera's flash should be switched off. If possible, please save the photographs in the .jpg format, and send them to alan@xspect.ca

Once you have sent the photographs and received confirmation that I am happy with their quality, you may discard the stepwedge box and keep the work light for your own use. You do not need to return these items to me.

If you have questions please contact me by phone at 905 335-7194 (home), or 905 630- 5252 (mobile) or 289 800-1256 (office). During this time of Covid, I am most likely to be reached at the first number. Also, I can be contacted through e-mail at alan@xspect.ca.

Thank you,

Alan Cottrell

Kit components

Led lights showing lamp is fully charged

Beginning insertion of lamp into stepwedge box

Fully inserted

Ready for use