

DIGITAL INTEGRATION TESTING INSTRUCTIONS

Download Summit Virtual 2PT Console Setup (06864A.zip) from the Summit Industries Online Documentation Website (QR code to the right), Product Documentation, Section: **Generator (Summit) Integration** or contact Summit Technical Service for a copy.



I. Installation and Setup:

1. Make sure all the following items have been done:
 - A. Ensure the X-ray generator is in full working order (calibration, configuration, prep/exposure switches are setup, interlocks, etc).
 - B. Ensure that the generator receptors are properly configured per the site requirements (Table only, Wallstand only, or Table and Wallstand).
 - C. Connect the communication PCBA 06410 to the generator (as well as its power supply).
 - D. Connect the DSUB-9 communication cable from the communication PCBA of the generator to the Workstation PC.
2. Install the Virtual 2PT Console by running the Summit2PtConsole06864_Setup.exe file. A desktop icon will be setup for the Summit 2PT Console.
3. Make sure the generator is OFF, but the Power coming into the generator is ON.
4. Click the Summit 2PT Console desktop icon to start the virtual console.
5. Setup the Communication Port for the 2PT Virtual Console:
 - A. Go to Menu->Port Config->Select Port->Select your COMM port-> Select "Open Port"
6. Press the "ON" button on the Virtual Console. Your generator should now turn on.

If it does not:

 - A. Try selecting different COMM ports.
 - B. There is something wrong with the cable, or circuit board, or power, etc.

II. Test the entire system except the Workstation Software:

1. After turning ON the generator:
 - A. Change the kV on the Virtual Console and verify it changes on the real console.
 - B. Change the kV on the real console and verify it changes on the Virtual Console.
 - C. Set the technique to 80 kV, 20 mAs, and take an exposure. No errors should be displayed. If errors arise, then refer back to 1.A.
2. Shut down the generator from the Virtual Console.

You have now proven that the following items are all working as expected:

- A. Generator
- B. Generator communication PCBA 06410
- C. DSUB-9 communication cable from the generator to the Workstation
- D. Workstation PC
- E. Workstation Communication Port
- F. Summit DLL that the workstation is going to use to communicate with the generator.

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III. Test the Workstation Software:

1. Shut down the Virtual Console.
2. Start the Acquisition Software.
Note: The Virtual Console and the acquisition software CANNOT be on at the same time.
PC's do not allow multiple programs to share the same communication port.
3. Perform any workstation setups:
 - A. Setup the Workstation to work with Summit Generators.
 - B. Setup the Workstation receptors to match whatever the site is offering (Table only, Wallstand only, or Table and Wallstand). This is very important.
4. Get to an exposure screen where kV can be changed. Example, on an AP system select a technique region, view, and any additional screens until you get to an exposure screen.
5. Change the kV on the workstation and make sure it changes on the real console.
6. Change the kV on the real console and make sure it changes on the workstation console.
7. Set techniques to 80 kV, 20 mAs, and take an exposure. No errors should be displayed. If the Workstation is displaying any errors at this time, there is some Workstation software compatibility issue. The Workstation software company must be advised, and you need a Workstation software upgrade that is compatible with the Summit Generator. If NO errors were displayed by the workstation software continue to the next step.
8. Take exposures with each available receptor (Table, Table Top, Wallstand). Verify no errors appear.

IV. Uninstall the Virtual 2PT Console

If everything has been proven to operate properly, uninstall the Summit 2PT Console application software using the windows control panel.