

Spectrophotometers

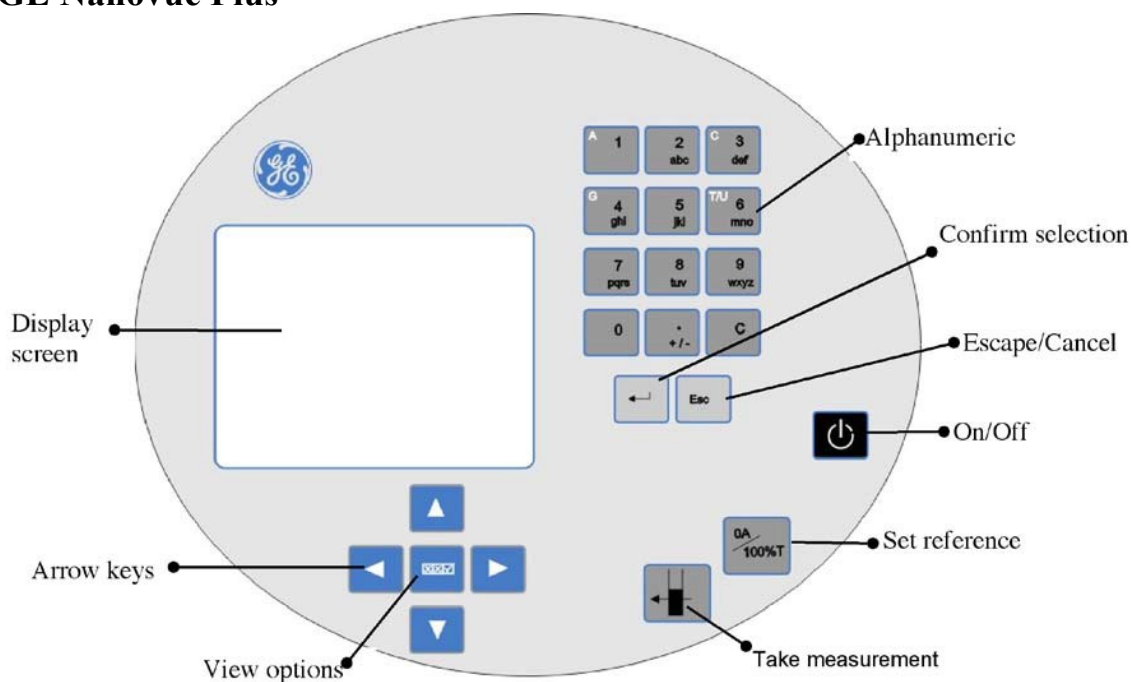
GE Nanovue (PSC 535)

Every time you use the Spectrophotometers, you MUST sign the log book.

Contact:

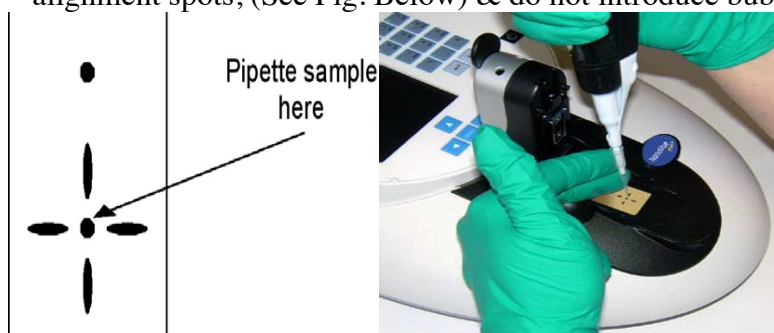
Gemeia Cameron (404) 413-5379; gmcameron@gsu.edu for help with the Nanovue
Ping Jiang (404) 413-5370; pjiang@gsu.edu for help with the Nanovue

GE Nanovue Plus




1. Turn the **power on** by pressing On/Off key on the top far-right side of the spec face.
2. **Select “1”** on the touchpad to select the *Life Science* folder.
3. **Select** the specific life science **application** you require (6 types: DNA, RNA, Oligo, Tm Calculation, Cy Dye, Protein).
4. **Lift** the **sample head** to the vertical position & **pipet 2 uL** of **sample** volume onto the hydrophobic gold-plated surface.


*NOTE: Be sure the pipetted sample sits over the black spot between the four alignment spots, (See Fig. Below) & do not introduce bubbles into the sample.



5. **Gently lower** the **sample head** onto the top of the sample. Be sure the pipetted sample resembles a uniform droplet & is NOT spread-out. A noticeably spread-out sample indicates the target area may be contaminated & requires cleaning (see below).

6. Use the **0A/100%T** &  buttons to **take reference & measurement** scans respectively.

*NOTE: It is not recommended to raise & lower the head repeatedly to take multiple measurements of one sample; this can cause the droplet to disperse.

If repeat measurements are required, use the  button.

7. If you prefer, **Select “2”** on the keypad to **Print** your results.
8. After the reading has been taken, **gently lift the sample head & Recover the sample** using a pipette.
9. **Clean BOTH top & bottom plates** by wiping the surface with a kimwipe. Wipe the bottom plate towards you & the top plate upwards. This avoids contaminating the return light path located on the rear of the bottom plate. (See above fig.)



For more in-depth use of NanoVue Plus options & applications, contact Gemeia (gmcameron@gsu.edu) or Ping (pjiang@gsu.edu).

