Leica C10 Forensic ScanStation Instructions

- Set up and level the tripod to the surface of the ground, ensuring that once the tripod is level, the brackets are tightened on the feet as to prevent accidental collapse and damage to the scanner.
- Attach the scanner to the tripod and insert the batteries into the terminals.
- Turn on the scanner by depressing the silver power button.
- Once the scanner has fully booted up, create a new project file, and name it appropriately.
- Select the ‘level’ icon at the top of the screen and adjust the level discs on the Tribrach attached to the scanner to ensure that the scanner is level.
- Set up targets within the scene to acquire for use in Registration of the final data. At least one twin-target pole shall be set up to perform check the scanner prior to collecting data.
- Once targets are set, acquire the top and bottom targets of a twin-target pole and measure the distance between the two. This is the performance check for the scanner. The distance between the two targets is 1.7 meters (m), and the accepted tolerance for measurement range is +/- 1% of this 1.7m distance. As long as the scanner is within tolerance, this is the only time during the scene this check must be done.
- If the scanner measures within tolerance, continue acquiring targets, making sure to make note of how they are named for consistency between scans. A sketch of the scene shall be done with notation of the target and scanner locations.
- Once all targets for a scan have been acquired, select the parameters for the scan. Most scenes will require the ‘Panoramic’ setting to ensure the scene is fully captured. Adjust the resolution based on the circumstances of the scene.
- When all parameters have been set, start the scan. The user may select whether to capture photos after the scan, or just collect laser scan data.
- Once the scan has completed, check the image on the screen to ensure that data was collected properly, select the ‘X’ to back out of that ScanWorld, then choose another scanner location, if necessary, and repeat acquisition of targets, setting of parameters, and collecting data.
- Once all scans have been completed, transfer the data to a USB flash drive, before departing the scene if possible.