General knowledge

GenlCam provides a standardized interface for accessing camera devices. Users must supply a CTI file, which is a compiled binary representing the transport layer, enabling the Harvesters library to manage the device effectively.

Below is a script demonstrating the essential steps: importing Harvesters, adding a CTI file, listing and connecting to a device, adjusting settings, and initiating data acquisition.

```
def main(args=None):
    from harvesters.core import Harvester
    harvester = Harvester()
harvester.add_file(CTI_FILE,check_existence=True,check_validity=True)
    harvester.update()
    device = harvester.create(
        {'serial_number': SERIAL_NUMBER})
    features = device.remote_device.node_map
    SetSettings(features)
    device.start()
    print("Starting acqusition")
    while (True):
        acquire(device, features)
```

Utilizing the provided script facilitates the configuration of a stereo camera system, enabling synchronized image acquisition from dual cameras.

The GenlCam Browser by Stemmer Imaging is a valuable software tool that offers an intuitive interface for exploring GenlCam-compatible cameras. It is particularly useful for identifying camera settings and their ranges prior to capturing images.

For the GenlCam Browser to recognize CTI files, these must be placed in the program files directory on the C drive. This step is crucial; if the CTI files are not located in the specified directory, the browser will not be able to connect using the designated transport layer.

By following these guidelines, users can efficiently set up their stereo camera systems and adjust settings using the GenlCam Browser, ensuring a smooth and effective image acquisition process.