WinCamD-GCM 1" GigE Vision CMOS Beam Profiling Camera

Using the same sensor as the WinCamD-LCM (11.3 x 11.3 mm active area, 4.2 Mpixels, 5.5 x 5.5 µm pixels, global shutter), the WinCamD-GCM utilizes GigE Vision for longer range applications (cable lengths up to ~100m).

The WinCamD-GCM is paired with DataRay's full-featured software which has no license fees, unlimited installations, and free software updates. It is perfect for applications including: CW and pulsed laser profiling; field servicing of laser systems; optical assembly; instrument alignment; beam wander and logging; R&D; OEM integration; quality control; and M^2 measurement with available M2DU stages.

System Features

- GigE Vision connectivity
- 355-1350 nm (CMOS)
  - TEL sensor option for 1480-1605 nm
  - UV options available
- 4.2 MPixel, 2048 x 2048 pixels, 11.3 x 11.3 mm active area
- 5.5 µm pixels
- MagND™ stackable magnetic ND filters or C-mount filters
- 2,500:1 Signal to RMS Noise
- Global shutter with TTL trigger
- Electronic auto-shutter, 40 µs to 2 sec (47 dB)
- 12-bit ADC
- Isolated pulse triggering
- Parallel capture on multiple cameras
- Field-replaceable image sensors
- Window-free sensors standard for no fringing
- ISO 11146 M^2 option – beam propagation analysis, divergence, focus
- Optional 50, 200, 500, or 1000 mm stage lengths for a wide range of Rayleigh ranges
- Available for large beam (LBPS) and line laser (LLPS) profiling systems

Applications

- Long range applications which require long cabling
- CW & pulsed laser profiling
- Field servicing of lasers and laser-based systems
- Optical assembly & instrument alignment
- Beam wander & logging
- M^2 measurements