



Why White Light Velocity Measurement Works Better than Laser

- Lasers operate via the EXTERNAL bar fringe patterns illuminated onto the product. These are the reference fringes; any distortions distort the measurement and introduces systematic errors. Hot gases, steam, water, texture high gloss surface and bounce all introduce such distortions.

These reference fringes are created by the CCD array INSIDE the VLM 200. This highly precise optical arrangement cannot be distorted.

- It is a commonly believed Laser Velocity Meters operate better as result of their high energy laser beams. This only the case in the ideal world. Any steam or water interrupting the beam absorbs the single frequency laser beam.

With the multi frequency white light used in the VLM200 this is not the case.

- All measurement reference is lost when the lasers small external grid pattern is blocked just a little.

The VLM200's internal reference CCD accommodates substantial blockage of the diverging beam

- The frequency of the Laser diode only remains fixed with constant precise temperature and current control. This is why laser devices require very controlled cooling as any frequency change, results in a change in velocity reading.

Again, as the reference fringes areas generated by the internal CCD, this stabilization is not at all needed with the VLM200

- Each individual Laser diode's output has to be linearized to a specific unique frequency where a dead band in the current/temp curve to avoid mode topping where frequency jumps at some points. Commonly, for entry/exist mass flow - just matching two lasers can take two days!

With the VLM 200 this is totally unnecessary, as the CCD is the fringe source

- The sine wave from Laser Velocity Meters is very noisy and needs high filtering.

The CCD in the VLM200 generates a completely clean sine wave that needs no filtering

- High gloss surfaces or coatings result in light saturation and loss of signal change with Lasers. The VLM 200 automatically accommodates these surfaces, even operating in dark mode or via light source behind the paper or translucent material. These applications can be impossible for lasers.

- When Lasers Velocity meters fail or need re-calibration due the laser diode failure this always means return to the factory with substantial delay and costs of between \$3,000.00 and \$7,000.00 plus necessitating the carrying of complete spare. Typically, this occurs 2 years at best and not uncommon in 6 months

The VLM 200 solely uses a quartz halogen lamp, changed in minutes at minimal cost.

- MOST IMPORTANTLY WE OFFER A 3 YEAR WARRANTY!**

These are just a few benefits of using a VLM200 Velocity Meter for determining product velocity and length.

MODULOC[®] Technology - The Total Sensor Solution