



# Particle Velicity Imaging

## **Application fields:**

The PVI-system mesures the velocity of small and luminous particles generated in thermal spraying processes. PVI is developed for:

- plasma spraying
- wire arc spraying
- flame spraying

The working area is research an development.

Simple and easy use of software es well as low-cost pricing for the complete system was taken into account.

## **Characteristics of the PVI®- system:**

- "plug and measure" principle
- direct result management
- short measurement time
- small and robust camera
- quick system calibration
- on-line display for:
  - max-, min-, average velocity
  - speedometer, histogram, trend
  - single/multiple speed
- image save, data save, setting, save
- compatible for data export to Microsoft Excel®

## **Technical characteristics:**

#### camera unit:

objective: telecentric lenses resolution: 1024(H) x 768(V)

shutter: highspeed to lowspeed

integration: fullframe
measurement distance: > 15 cm
measurement volume: ~ 25 cm³
velocity range: 0 ... 1000 m/s

camera dimensions: 25 cm (I) x 6 cm (w) x 6 cm (h)

camera mass: 936 g

#### camera control interface:

I x Trigger IN (real time, PLC standard), 20 ... 24 V 18 cm (I) x 11 cm (w) x 6 cm (h)

## minimal hardware requirements PC:

processor 1.0GHz, 256MB RAM, 100 MB HDD space, graphical resolution 1024 x 768 pixel, 1x network interface ethernet 10/100, Windows XP / 7

