

## Request for Quotation

REF: AE/DD/2012/06

Date: July 13, 2012

To  
M/s :

Sub : Quotation for supply of: CCD Camera and ICCD Camera as per the following specifications

Sir / Madam:

With reference to the subject mentioned above, you are invited to submit the quotation in a sealed cover in order to reach us before ~~July 30, 2012~~ August 10, 2012 (Extended date) in the proforma quotation enclosed herewith in the form of hard copy / soft copy for your use.

Technical details/Specifications required for the CCD Camera and ICCD Camera

Specifications for CCD camera to be used for PIV application

Application: Particle Image Velocimetry (PIV)

Dynamic range A/D: 12-16 bit, Monochrome

Resolution: 1-2 Megapixels

Quantum efficiency: >50 % in spectral range 500-550 nm

Operational mode: Single and double frame mode

Minimum frame rate:  $\geq 4$  fps (at full resolution in double frame mode)

Exposure time: should be adjustable, minimum: 5 $\mu$ s or less

Inter framing time: should be adjustable, minimum: 1 $\mu$ s or less

Triggering: The camera should have an option of external triggering using TTL signal.

Operating temperature & humidity: 10°C to 40°C & 10% to 80% RH.

Optical interface: C-mount

Lens: 50mm diameter f/2.8, or any other suitable lens (Field of view at minimum focussing distance < 100cm<sup>2</sup>, minimum focussing distance: 15-25 cm)

Software: Software for the camera to control parameters like exposure time, inter framing time, frame rate, resolution, single or double frame modes, pixel binning etc...

Include any other required accessories, lens, power supply, cables (of length atleast 5m) etc..

Warranty: Minimum 2 years and preferably 3 years

Specifications for ICCD camera to be used for both Acetone PLIF & PIV application

Application: Acetone Planar Laser Induced Fluorescence (PLIF) and Particle Image Velocimetry (PIV)

Dynamic range A/D: 12-16 bit, Monochrome

Resolution: 1-2 Megapixels

Quantum efficiency: >40 % in spectral range 400-600 nm (The photo-cathode material of the intensifier should be such that this criterion is satisfied)

Phosphor efficiency: >=90 %

Operational mode: Single and double frame mode

Minimum frame rate: >= 4 fps (at full resolution in double frame mode)

Exposure time: should be adjustable, minimum: 1 $\mu$ s or less

Inter framing time: should be adjustable, minimum: 500ns or less

Triggering: The camera should have an option of external triggering using TTL signal.

Operating temperature & humidity: 10°C to 40°C & 10% to 80% RH.

Optical interface: C-mount

Lens: 50mm diameter f/1.4 and 60mm f/2.8, 85mm f/2.8 (optional) or any other suitable lens (Field of view at minimum focussing distance < 100cm<sup>2</sup>, minimum focussing distance: 15-25 cm)

Software: Software for the camera to control parameters like exposure/gating time, inter framing time, frame rate, resolution, single or double frame modes, pixel binning etc...

Include any other required accessories, lens, power supply, cables (of length atleast 5m) etc...

Warranty: Minimum 2 years and preferably 3 years.

The soft copy of the model quotation can be downloaded from our website placed at the following link: (Form No. 608)  
[http://web.iitk.ac.in/dord/rndforms/project\\_purchases.php](http://web.iitk.ac.in/dord/rndforms/project_purchases.php)

Best regards,  
Sincerely,

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