

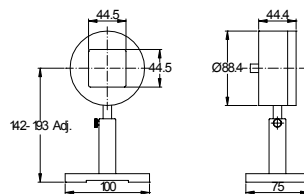
## ED-500

### APPLICATIONS:

Ho:Yag  
Tu:Yag  
Ruby(long pulse)  
Nd:Yag  
YLF

### FEATURES:

- \* CW and Pulse Energy Measurement
- \* 1.3mJ - 40J
- \* up to 70Hz
- \* Flat Spectral Response
- \* Very large aperture



|                              |                                                                                                                                                                                       |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Absorber Type:               | Hi-Energy Broadband                                                                                                                                                                   |
| Wavelength Range :           | 0.19-11μm (a)                                                                                                                                                                         |
| Sensitive Diameter :         | 44.5x44.5 mm                                                                                                                                                                          |
| Energy Resolution:           | 1.3 mJ                                                                                                                                                                                |
| Max Energy:                  | 40 J (b)                                                                                                                                                                              |
| Max Repetition Frequency:    | 70Hz                                                                                                                                                                                  |
| Max Pulse Width:             | 1 msec (c)                                                                                                                                                                            |
| Rise Time (typ.):            | 2 msec                                                                                                                                                                                |
| Sensitivity:                 | 3 V/J (d)                                                                                                                                                                             |
| Power Resolution:            | 10mW                                                                                                                                                                                  |
| Max. Continuous Power :      | 20 W                                                                                                                                                                                  |
| Max. Average Power Density : | 2 kW/cm <sup>2</sup>                                                                                                                                                                  |
| Max Energy Density:          | 4J/cm <sup>2</sup> @ 10.6μm-7ns-10Hz<br>2 J/cm <sup>2</sup> @ 1.06μm- 7ns-10Hz<br>2J/cm <sup>2</sup> @ 532 nm-7ns-10Hz<br>160mJ/cm <sup>2</sup> @266nm-7ns-10Hz                       |
| Noise Equivalent Energy :    | 60mJ                                                                                                                                                                                  |
| Calibration Accuracy (%):    | ± 5%                                                                                                                                                                                  |
| Cooling:                     | Convection                                                                                                                                                                            |
| Notes:                       | a. Calibrated for YAG and Diode Lasers.<br>b. with nsec pulses @ Yag wavelength<br>c. Long pulse width settings have lower rep.rates and sensitivity<br>d. On a 1MOhm and <130pF load |

### Ordering Information (please add all codes when ordering)

| Item (only available with DUO monitor) | Code      |
|----------------------------------------|-----------|
| Detector Head (10mW-10W/0.2mJ-8J)      | ED-200    |
| Detector Head (10mW-20W/1mJ-30J)       | ED-200-LA |
| Detector Head (10mW-20W/1.3mJ-40J)     | ED-500    |
| Measurement Mode :                     |           |
| Power & Energy                         | -PE       |
| Calibration Wavelengths:               |           |
| 1064 nm (standard)                     | -Y        |
| 10.6 μm (standard)                     | -C        |
| 355nm (on request)                     | -UV       |
| 532nm (on request)                     | -VIS      |
| 908nm (on request)                     | -LD       |
| Example of Complete Code : ED-500-PE-Y |           |