



## EMA 400 MASK ALIGNER

### Product Features

- Economical, Compact & Hi-Level Performance
- Viewing fused image of two alignment marks in the field of view
- Integrator lens for exposure
- LED illuminator

**Application** (Micromachine development in R&D center and university)

- Acuator, Pressure Sensor, Acceleration Sensor, Power Device, etc
- Exposure for Flip Chip/BGA/CSP
- Exposure for Optical/High Speed Communication Components



<b>Alignment Scope</b>	
<b>Objectives separation</b>	15 ~ 75mm
<b>Total magnification</b>	100X
<b>Illuminator for observation</b>	Red LED (=633 nm)
<b>X, Y Movement range of stage</b>	±5 mm
<b>Adjustment</b>	±5°
<b>Utility</b>	
<b>Power source for main body and mercury lamp</b>	AC 100V 50/60Hz 15A
<b>Vacuum source</b>	Below 21.3 Kpa (-80 Kpa from atmospheric pressure)
<b>Exposure Unit</b>	
<b>Lens</b>	Integrator lens
<b>Mercury lamp</b>	250W ultra-high pressure vapor mercury lamp
<b>Effective exposure area</b>	Max 100 mm
<b>Intensity distribution</b>	±5% or less
<b>Intensity of illumination</b>	20 mW/cm <sup>2</sup> (405 nm)
<b>Exposure time control</b>	Digital timer and rotary solenoid
<b>Mercury Lamp Lighting Unit</b>	AC 110V