



Figure 1 iT-AF Camera Sensor And iT-AF Motion Controller

Key Features

- Position Tracking Using Light Triangulation
- Focus Update Rate 1,000Hz
- Capture Range $\pm 1,500\mu\text{m}$
- Support Displacement Output
- Noise Processing Function
- FPGA Based Operation
- Motion And Laser Control
- Operation By GUI Program
- Auto Exposure And Laser PWR Control

Application

- PCB
- Film
- Wafer
- FPD (Flat Panel display)

1. Specifications

Model	iT-AF-M1
Focus Update Rate	1KHz
Measure Range	±1,500μm
Sensing Type	Optical triangulation
Laser	Wavelength:655±5 (nm)
Communication Interface	RS485 (9600 bps~921600 bps)
Input Voltage	24V, 0.5A
DIO	Output Digital & Analog
Linearity Error	0.1% (Depends on Optics)
Repeatability	< 0.2μm (Depends on Optics)

	Auto Exposure / Auto Laser Control
AF Sensor	Laser Brightness Control by PD Feedback
	Multiple Layer Detection (Max.5)
	Support Real-time Graph Display

Table 1 Specification of iT-AF

2. Mechanical Dimensions

