

A focus laser with large spot and a separate laser detector are aligned at a large angle outside of the objective lens. Focus is maintained by minimizing the error signal generated by the sensor.



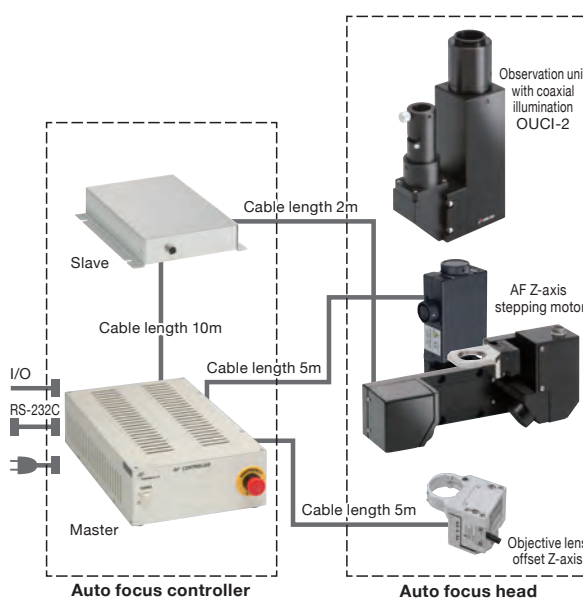
[Characteristics]

- As the optical system being focused and the auto focus optical system are independent, the auto focus system will operate with various magnification objective lenses.
- Focus point can be offset to support focusing through transparent surfaces such as glass and film.
- The small, compact design makes it easy to integrate into inspection equipment systems.

Specifications

Part Number	TAF-ES-DM-40
Objective Lens	2× – 50× (Outer diameter $\phi 32\text{mm}$ WD11mm Objective lens)
Camera	C mount CCD camera (Size is less than 2/3")
Focusing methods	Off-axis (out of Lens) reflection active system by semiconductor laser (equivalent to class 3R, light output 4.5mW or less, wavelength at 670nm)
Travel	10mm
Trace Range (Tracking capable range)	Regular reflector: $\pm 3\text{mm}$ Transparent body: contact us separately Reference) thickness 0.7mm, glass $\pm 0.3\text{mm}$
Reproducibility (focus)	$\pm 0.5\mu\text{m}$
Response frequency	About 5Hz (regular reflector step $\pm 10\mu\text{m}$)
Illumination optical systems	Coaxial epi-illumination (aperture stop built in)
Dimension	(W)202 × (H)230 × (D)87mm
Weight (head part)	2.2kg
Focus Actuator	TSDM (stepping motor drive stage)

Configuration



Outline Drawing

(in mm)

