This objective lens can be used for laser machining using pulsed laser of THG (355nm) YAG laser. Chromatic aberration is suppressed in both the visible and UV laser wavelength, achieving a high transmittance.

- With its long working distance and field curvature corrected, its natural observation image is obtained to the periphery of the visual field.
- With its long working infinity correction function; this objective lens can be used for a laser system and coaxial observation.
- It is also used for the observation of near ultra-violet light.
- This objective lens can be used with a pulse laser of visible light (532nm).

T: Transmission

 Laser Damage Threshold (Typical) 0.05J/cm2 (355nm), 0.1J/cm2 (532nm) (Laser pulse width 10ns, repetition frequency 20Hz)



Typical Transmittance Data

Guide

- ► Available fixed objective lens holder (LHO-26).
- WEB Reference Catalog Code/W4024
- ▶ When the objective lens is fixed to a 2 axis holder, please consult our Sales Division.
- ► For laser processing

Attention

► When an objective lens is used in laser processing, use the diameter of the incident beam to extend to a size of half the pupil diameter (1/e2). A small light spot cannot be achieved when the incident beam is too narrow. Please note if there is a laser energy density increase, there will be a high possibility of damage to the objective lens.

► The surface of an objective lens can be contaminated by debris during processing. To avoid this





Specifications										
Part Number	ltem name	Magnification	Focal length f[mm]	N.A.	Working Distance W.D.*2 [mm]	Resolution*1 [µm]	Focal depth*1 [µm]	Real field of vie (Eyepiece ф24mm)	w[mm] (1/2"CCD)	Weight [kg]
PAL-20-NUV-B	LCD MPlanApo NUV 20x	20×	10	0.4	17.36	0.7	1.7	φ1.2	0.24 × 0.32	0.29

%1; Resolution and focal depth are calculated value at wavelength of 0.55 $\mu m.$

%2; Working distance: value at air

