




The dramatic improvement in microscope performance with the world's first CF optical system

Registration No.	Number 00248		
Registration Date	August 28, 2018	Registration Category	Category 1
Name (Model, etc.)	Biological Research Microscope with CF Optical System, BIOPHOTO		
Location	Minato-ku, Tokyo		
	NIKON MUSEUM		
Owner (Custodian)	NIKON CORPORATION		
Manufacturer (Company)	Nippon Kogaku K. K. (now NIKON CORPORATION)		
Year Manufactured	1976		
Year first appeared	1976		
Reason For Selection	<p>The CF system (chromatic aberration-free system) employed in BIOPHOTO corrects the lateral chromatic aberration of an objective lens with the objective lens itself. This was a new lens design concept replacing the compensation method that compensates lateral chromatic aberration with the eyepiece which is conventionally common sense that is difficult to correct with an objective lens. This objective lens using the CF system was the first of its kind to be commercialized worldwide, and it was referred to as “the first technological innovation in 100 years” because the performance of microscopes dramatically improved. BIOPHOTO is vital as the first biological microscope for research which employed the CF optical system.</p>		
Registration Standard	<p>1-A (Show an important aspect or stage of the development of science and technology.) 1-B (Show a uniquely Japanese scientific or technological development from an international perspective.)</p>		
Open/Closed to Public	Closed to Public		
Photo			
	 <p>CF Plan Achromat Objectives</p>  <p>CF Plan Apochromat Objectives</p>		
Other useful information			