

The world's first digital camera with honeycomb-structured CCD

Registration No.	Number 00243		
Registration Date	August 28, 2018	Registration Category	Category 1

Name (Model, etc.)	FinePix4700Z		
Location	Minato-ku, Tokyo		
	FUJIFILM Corporation		
Owner (Custodian)	FUJIFILM Corporation		
Manufacturer (Company)	Fuji Photo Film Co., Ltd. (now FUJIFILM Corporation)		
Year Manufactured	2000		
Year first appeared	2000		
Reason For Selection	The world's first digital camera equipped with a CCD with a honeycomb structure. The Super CCD honeycomb improved light collection efficiency and horizontal and vertical resolution by its features such as octagonal pixels and a grid arrangement rotated 45 degrees from conventional CCD. Problems arose, such as residual images due to meandering of the vertical shift register, but these were overcome by developing technology, including improved transfer efficiency and refined drive timing. It is vital in having attained its unique structure of honeycomb CCD (2,400,000 pixels) and increased recording pixels due to technologies such as pixel interpolation (4,320,000 pixels) as increasing numbers of pixels are sought.		
Registration Standard	1-B (Show a uniquely Japanese scientific or technological development from an international perspective.)		

Open/Closed to Public	Open to Public		
Photo			
Other useful information			