

Japan's Early Mass-Produced Color Television

Registration No.	Number 00138		
Registration Date	September 2, 2014	Registration Category	Category 1

Name (Model, etc.)	The First Hitachi 21"Color Television (CT150)
Location	Minokamo City, Gifu
	Hitachi Joei Tech Co., Ltd.
Owner (Custodian)	Hitachi Joei Tech Co., Ltd.
Manufacturer (Company)	Hitachi, Ltd.
Year Manufactured	1960
Year first appeared	1960
Reason For Selection	Developed to coincide with the start of color television broadcasting in 1960. This was the first 21" color television produced by Hitachi, one of the front-running Japanese manufacturers. It had 30 vacuum tubes, a power consumption of 400W, weighed 106kg and cost ¥520,000. A number of clever ideas were incorporated to prevent the image quality from deteriorating. 1) DC restoration circuits to reliably reproduce the DC level of each primary color; 2) The band amplifier circuit was designed to amplify the transmission with good linearity to avoid as much distortion as possible, thereby preventing color noise around outlines; 3) the adoption of the AGC circuit allowed faithful reproduction of the DC component of the signal; 4) while good beam convergence required examination of the deflection yoke winding, researchers carried out a multifaceted analysis of the distortion caused by the deflection yoke to obtain a good quality image.
Registration Standard	1 - A(Show an important aspect or stage of the development of science and technology.)

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