

First ever outdoor watch with GPS navigation

Registration No.	Number 00308		
Registration Date	September 14, 2021	Registration Category	Category 1

Name (Model, etc.)	Outdoor Watch with Built-in GPS PRO TREK SATELLITE NAVI PRT-1GP
Location	Setagaya-ku, Tokyo
	Toshio Kashio Memorial Museum of Invention
Owner (Custodian)	CASIO COMPUTER CO., LTD.
Manufacturer (Company)	CASIO COMPUTER CO., LTD.
Year Manufactured	1999
Year first appeared	1999
Reason For Selection	This is the world's first GPS watch, released by Casio in 1999. The navigation memory stored up to 200 destination and 100 plots. Given that even the handheld GPS systems that were popular with mountain trekkers at the time were as big as a large transceiver, GPS functionality in a compact watch represented a significant technical advancement. Casio developed a number of unique features for the watch including a multilayer housing for improved noise shielding; a low-power consumption voltage booster circuit to reduce power drain on the single 3 V lithium battery; and faster signal reception algorithms. The GPS watch caused a worldwide sensation on its release, and served to showcase Casio's important achievements in the areas of LSI technology and high-density mounting technology. This watch is significant as a successful example of a GPS-enabled compact precision device, and also as a precursor to the widespread adoption of GPS as an outdoor navigation aid in watches, as exemplified in modern-day smart watches.
Registration Standard	1-A (Show an important aspect or stage of the development of science and technology.) 2-A (Played a notable role in improving people's way of life and creating new ways of living.)

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