

Preliminary

PRDB GENERAL SPECIFICATIONS

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History

Setting day	Version	Contents
2000/3/29	Ver0.1	Draft
2000/4/21	Ver0.2	It corrects after an internal design review. └Pen-on / off-switch was deleted. └Sleep function of a pen was changed. (It considers as Sleep function of two stages) └Infrared semiconductor laser power value was corrected to about 170[W by the element experiment middle result.
2000/6	Ver0.9	The title was corrected to PRDB GENERAL SPECIFICATIONS.
2000/12	Ver0.9a	It corresponds to a primary trial production and a secondary trial production. └Infrared semiconductor laser power value was changed in connection with class 1 correspondence. └The size of an electronic pen was changed.
2001/3/22	Ver1.0	Mass-production experimental model correspondence └The pen transmitting channel was changed into 3CH. └A performance and general specification were corrected. └Installation environmental standard was corrected.

		└The technical regulation was amended. └The appending article was corrected.
2001/7/13	Ver1.1	└Transmitting channel frequency of an electrical pen for overseas were corrected. └The size of a main part was changed. └The size of an electrical pen was changed. └The accessories for overseas were corrected. └The technical regulation was amended.

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1. Outline

This product is supplied to Hitachi Software Engineering as a unit.

By combining with a large-sized back projection display, an electronic pen is made into an input device and it is located as a product, which has digitizer ability.

Please refer to the specifications of each unit about the details of each part.

2. Performance and General Specification

Item		Specification
Reading system		Infrared laser system
Screen size		A maximum of 70 inch display correspondence H1061mmEW1414mm
Decomposition ability		Less than 1mm
Reading accuracy		Less than 5mm A gap of the Nib at the time of perpendicular of an electronic pen and the cursor on a display
Height which can be read Laser scanning height		In the state where a pen is perpendicular, the height which can be read is 6mm or more from a display side. Laser scanning height is 12mm from the ideal display side without distortion. It is the typical characteristic in case laser width is a maximum of 26mm(distributed light).
Reading flattery speed		The continuation measurement at the time of switch-on is a maximum of 100 points/second or more. A drawing point Drawing data transmission speed to PC can be set up with the rotary SW3 on a main board. SW3 0 Setup : about 142.86 (about 7ms interval) SW3 1 Setup : about 100.00 (about 10ms interval) SW3 2 Setup : about 76.92 (about 13ms interval) It becomes.
Electronic pen	Outline size	About [phi25mm (maximum part phi29mm) xL198.5mm]
	Weight	100g or less (including battery)
	Side switch	An equivalent for a right click of a mouse. An equivalent for a left double click of a mouse.
	Nib switch	An equivalent for a mouse left click. Only the nib by wear is exchangeable. The level of the pressure to a pen It is 200g or less when perpendicular. Stroke 0.5mm Refer at the time of perpendicular.
	Inclination detection level	It is a range from Perpendicular to 45 degrees to a display side. Laser scanning height is 12mm from the ideal display side without distortion. It is the typical characteristic in case laser width is a maximum of 26mm(distributed light).
	The data-communications system to an up control part	Feeble radio system FCC part15a Conveyance frequency Japan 304.3MHz 1CH 309.8MHz 2CH 313.8MHz 3CH EU, CANADA, USA 27.195MHz 1CH 26.995MHz 2CH 27.045MHz 3CH The number of transmitting channels is fixed at the time of shipment.
	Durability of outdoor daylight	1000Lx or less in a pen position.
	Battery	Ni-MH(AAA) It drives 2.4V by 1.2V in-series connection.

Main unit		Charge system It charges with a commercial charger.
	Continuation use time	With the battery charged at full. At the time of continuation use About 80h Target value By shortening surveillance time to Sleep mode and by using the low power consumption mode effectively, when it is used for an average of 4 hours per day, it is under examination that it can be used for about One month.
	Sleep function	It has a Sleep function and battery power consumption is reduced. Sleep It is radio part circuit Sleep in about 5 seconds the case without laser detection . It cancels in a switch down and laser detection. Sleep └ When there is no laser light input for about 10 minutes. └ Although laser light is inputted, it inputs, when there are no arbitrary pen switches for about 10 minutes. └ When arbitrary pen switches continue being pushed for about 10 minutes regardless of a laser light input. Detection part, CPU sleep. It cancels by switch down.
	ID discernment	As a classification division of a pen, it has four sorts of IDs. At the time of pen manufacture, fixed setup.
	Outline size One side	1528.2mm(W)×145.9mm H ×122.5mm D
	Weight	8.2KG Right-and-left unit sum total
	Surface finish	
	Appearance paint color	AC black medium
	MPA Motor polygon ASSY	Polygon Number of rotations 5783(70inch)/6000(50inch)rpm(Area 6) Infrared semiconductor laser Wavelength 980nm Power about 2920[W MAX Class Irradiation It glares 8264 times in 100 seconds.(70inch) It glares 8569 times in 100 seconds. (50inch)
	RF Receiving part	Feeble radio system FCC part15a Conveyance frequency Japan 304.3MHz 1CH 309.8MHz 2CH 313.8MHz 3CH EU, CANADA, USA 27.195MHz 1CH 26.995MHz 2CH 27.045MHz 3CH It can choose by DipSW from four sorts of received frequency.
	Interface standard	EIA RS-232C D-SUB9 Pin

	Indicator	Pen communication status LED Green Pen battery charge demand status LED: Orange Power-on status, % Green
Input power supply		Voltage AC100V $\pm$ 240V $\pm$ 10% Frequency 50/60Hz
Consumption electric power		20W or less
Export		North America, EU
Operating environment		Temperature 5 $\pm$ 35 At the time of un-operating 0 $\pm$ 40 Humidity 20% $\pm$ 80% At the time of un-operating 8% $\pm$ 90% There needs to be no dew condensation.
Accessories		One electronic pen
		The ten nib reserve lead and one CAP.
		Battery Two Ni-MH AAA *Japan only
		Battery charger *Japan only
		Interface cable RS232C Straight cable about 5m
		One 6 angle wrench
		AC code It corresponds by the use country. 4.5m *Japan and USA only

3. Device composition outline

A device composition figure is appended to the following page.



