Prelimination

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.
		JPen-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		Less than 1mm
Reading accura	cy	Less than 5mm A gap of the Nib at the time of perpendicular of
		an electronic pen and the cursor on a display
U	can be read Laser	In the state where a pen is perpendicular, the height which can be
scanning heigh	t	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
D 1: Cl-++		width is a maximum of 26mm(distributed light).
Reading flatter	y 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]
1	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.
<u> </u>		Stroke 0.5mm Refer at the time of perpendicular.
	Inclination detection	It is a range from Perpendicular to 45 degrees to a display side.
	level	Laser scanning height is 12mm from the ideal display side
		without distortion. It is the typical characteristic in case laser
	The data-	width is a maximum of 26mm(distributed light). Feeble radio system FCC part15a
	communications	Conveyance frequency
	system to an up	Japan
	control part	304.3MHz 1CH
	control part	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.

		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.
Main unit	Outline size One side	1528.2mm(W)≡145.9mm H ≡122.5mm ∃
Traditi dilic	Weight	8.2КГ Right-and-left unit sum total
	Surface finish	8
	Appearance paint color	AC black medium
	MPA	Polygon Number of rotations
	Motor polygon	5783(70inch)/6000(50inch)rpm(Area 6)
	ASSY	Infrared semiconductor laser
		Wavelength 980nm
		Power about 2920 W MAX Class
		Irradiation
		It glares 8264 times in 100 seconds.(70inch)
	DE D	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
		3
		3
1	1	

Indicator	Pen communication status LED Green
Indicator	Pen battery charge demand status LED: Orange
	Power-on status,%∃ Green
Input power supply	Voltage AC100V⊥240V±10%
	Frequency 50/60Hz
Consumption electric power	20W or less
Export	North America, EU
Operating environment	Temperature 5 \perp 35 At the time of un-operating 0 \perp 40
	Humidity 20%⊥80% At the time of un-operating 8%⊥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.

