"SD Series I.I."
X-ray Image Intensifier
E5796SD-P2A

Triple Input Field: 310/230/160mm (12"/ 9"/ 6") Output Image Diameter: 25mm

FEATURING:

High Resolution : 46 Lp/cm

cd/m²

 \rightarrow High Conversion Factor : 34 $\frac{1}{\mu}$ Gy/s

High Contrast Ratio

10% area contrast : 30 10mm dia. contrast : 18

- ➤ "SD Series I.I." E5796SD-P2A is used for medical radiographic diagnosis.
- > This X-ray Image Intensifier is intended to be connected with IEC Class I equipment.

"SD Series I.I." E5796SD-P2A has been perfected by the integration of several aspects of advanced technology;

The input window is of a thin metal plate, which has good X-ray transparency characteristics and reduces X-ray scatter.

It uses a thick input phosphor screen made with an extremely fine pillar shaped structure. This has high X-ray absorption and very high conversion efficiency. In addition, there is a thin output phosphor screen on a single thick-glass output window with an anti-reflective coating, offering very high contrast for small details, very low structure noise and high MTF characteristics.

The E5796SD-P2A, employing these manufacturing techniques, provides outstanding performance in resolution, brightness, contrast and noise.

The E5796SD-P2A is supplied in a housing, which provides mu-metal magnetic shielding and radiation shielding.

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PERFORMANCE DATA

Item		N mode	M1 mode	M2 mode		
Central Resolution		46	50	56	Lp/cm	typ.
Conversion Factor (Gx)		34	-	-	(cd/m ²)/(µGy/s)	typ.
		300	-	-	(cd/m ²)/(mR/s)	typ.
Contrast Ratio	10% area	30	-	-	-	typ.
	10 mm dia.	18	-	-	-	typ.
DQE (IEC standard)		65	-	-	%	typ.

GENERAL DATA

MECHANICAL:

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Item		
Overall Length	434.5±5 mm	
Maximum Diameter	380±2 mm	
Nominal Entrance Field Size		
N (12") mode	310 mm min.	
M1 (9") mode	230±5 mm	
M2 (6") mode	160±5 mm	
Output Image Diameter	25±0.5 mm	
Weight (approx.)	31 kg	
Dimensional Outline	Refer to page 4	

> POWER SUPPLY:

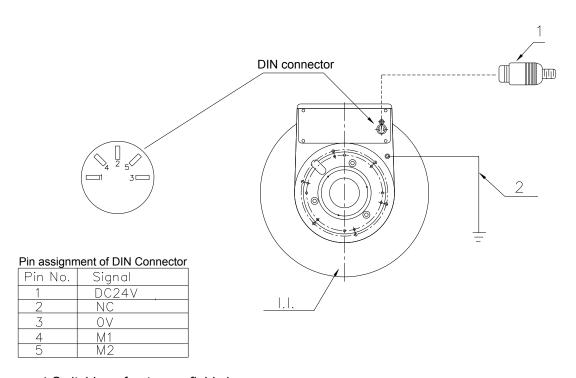
Item		
High Voltage Power Supply		
Input Voltage	24±1 Vdc	

> ENVIRONMENTAL:

Item	Under delivery and stock	Under operating
Temperature	-15 to 45 °C	5 to 40 °C
Humidity	10 to 90 %	30 to 85 %
Pressure	50 to 106 kPa	70 to 106 kPa

ELECTRICAL WIRING AND CONNECTING

X-ray image intensifier is operated with 24Vdc input voltage applied to the high voltage power supply. Wiring and connecting are shown as follows.

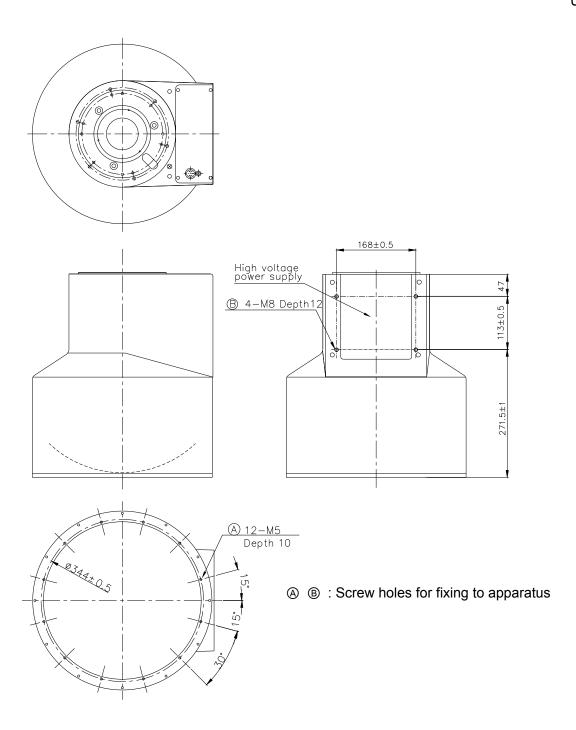


* Switching of entrance field size

N mode	4, 5 Open
M1 mode	1-4 Close (apply DC24V to Pin No.4)
M2 mode	1-5 Close (apply DC24V to Pin No.5)

DIMENSIONAL OUTLINE

Unit: mm



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