#### "SD Series I.I." X-ray Image Intensifier E5764SD-P3A

Triple Input Field: 230/160/120mm (9"/ 6"/ 4.5") Output Image Diameter: 20mm

# FEATURING:

- High Resolution : 48 Lp/cm
- > High Conversion Factor : 28  $\frac{\text{cd/m}^2}{\mu \text{ Gv/s}}$
- High Contrast Ratio

10% area contrast	: 25:1
10mm dia. contrast	: 16:1

- > "SD Series I.I." E5764SD-P3A 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." E5764SD-P3A 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 E5764SD-P3A, employing these manufacturing techniques, provides outstanding performance in resolution, brightness, contrast and noise.

The E5764SD-P3A is supplied in a housing, which provides mu-metal magnetic shielding and radiation shielding.

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<sup>★</sup> The information contained herein may be changed without prior notice. It is therefore, advisable to contact to CETD before processing with the design of equipment incorporating this product.

Item		N mode	M1 mode	M2 mode		
Central Resolution		48	56	66	Lp/cm	typ.
Conversion Factor (Gx)		28	-	-	(cd/m²)/(µGy/s)	typ.
		240	-	-	(cd/m²)/(mR/s)	typ.
Contrast Ratio	10% area	25:1	-	-	-	typ.
	10 mm dia.	16:1	-	-	-	typ.
DQE (IEC standard)		65	-	-	%	typ.

# PERFORMANCE DATA

## **GENERAL DATA**

MECHANICAL:	
Item	
Overall Length	338±5 mm
Maximum Diameter	304±2 mm
Nominal Entrance Field Size	
N (9") mode	230 mm min.
Useful Entrance Field Size	
N (9") mode	215 mm min.
M1 (6") mode	160±5 mm
M2 (4.5") mode	120±5 mm
Output Image Diameter	20±0.5 mm
Weight (approx.)	20 kg
Dimensional Outline	Refer to page 4

### POWER SUPPLY:

 Item

 High Voltage Power Supply

 Input Voltage

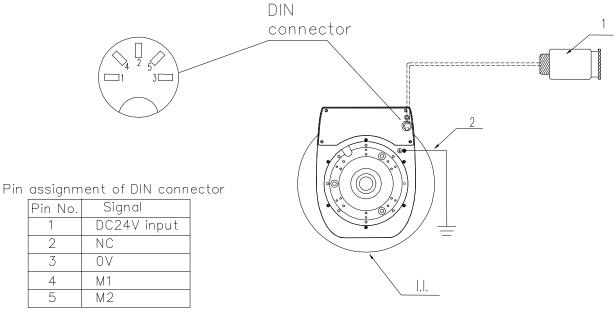
 24±1 Vdc

### > 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.



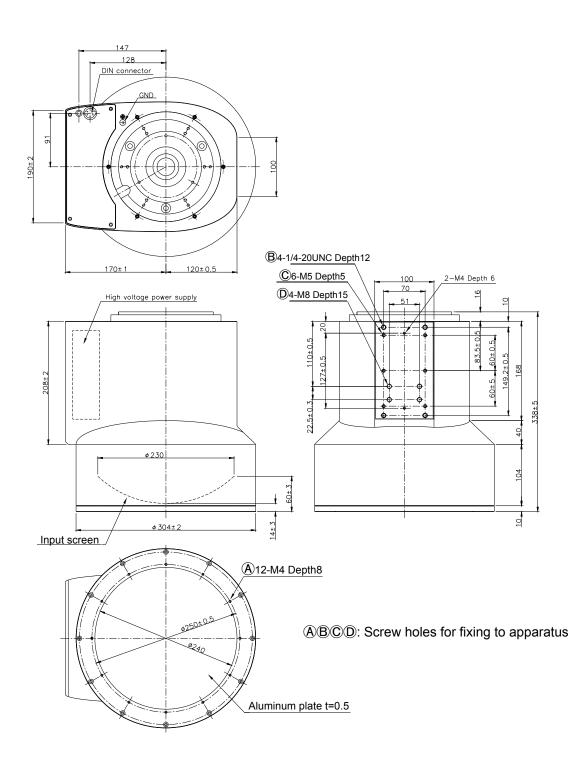
Switching of entrance field size

- \* 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)

1: DIN connector	one connector attached with each product
2: GND cable	

#### **DIMENSIONAL OUTLINE**

Unit: mm



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