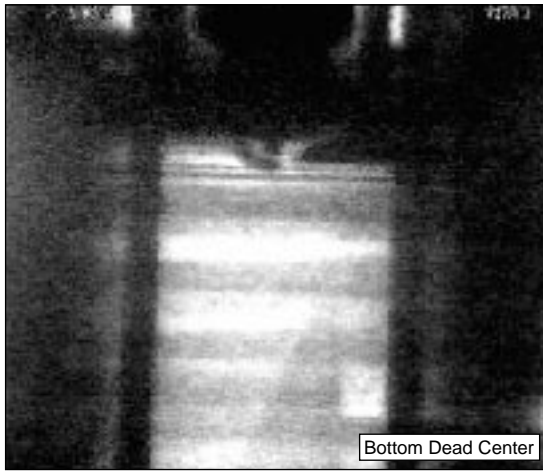


NEW

GATED X-RAY IMAGE INTENSIFIER UNIT C7077



IMAGE OF THE INSIDE OF AN ENGINE



Bottom Dead Center



Top Dead Center

The image of the inside of a cylinder working at 2400 rpm (using a special engine for imaging).

OUTLINE

The C7077 consists of a 4-inch diameter gated X-ray image intensifier (X-ray I.I.), a relay lens and a gating power supply. Since the X-ray I.I. itself has gating function, it is possible to get still images of moving objects just with the control by external trigger signal. Therefore, it does not require a pulsed X-ray source, but a conventional X-ray source can be used. In addition, the required trigger signal is a TTL level pulse, which can be easily prepared.



FEATURES

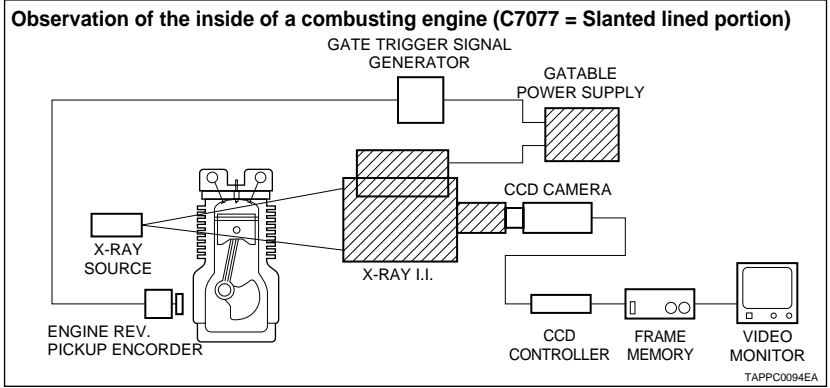
- Possible to capture moving objects as still images.
- Easy control of gating by TTL level pulse input.
- High repetition rate.
- Appropriate for industrial non-destructive testing.

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SYSTEM

- 4-inch diameter gated X-ray image intensifier
- Relay lens with C-mount camera adapter (Zoom ratio 3:1, especially for 2/3 inch CCD chip)
- Gating power supply

Note: This unit does not include a CCD camera



SPECIFICATIONS

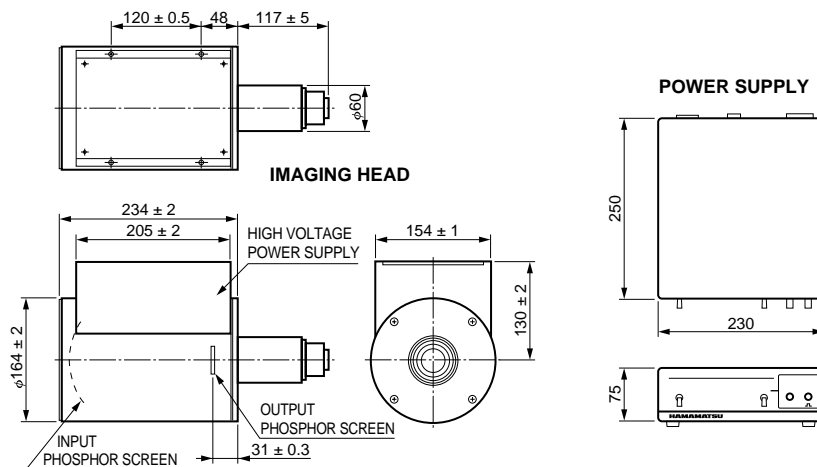
IMAGE INTENSIFIER

Input	Input Window	Aluminum 0.5 mmt
	Input Phosphor Screen	CsI
	Effective Area	100 mm dia.
Output	Phosphor Screen	P-20 Similar
	Effective Area	20.0 ± 0.5 mm

GATE POWER SUPPLY

Gate Signal Input	Level	TTL Positive (+4 V to +5 V at 50 Ω)
	Impedance	50 Ω
Gate Output	Gate Pulse Width	1 μsec to DC (correspond to TTL input)
	Repetition	20 kHz Max.
	Gate Rise Time	50 ns Typ.
	Gate Fall Time	50 ns Typ.
	Delay Time	150 ns Typ.
Gate Time Monitor	Output Level	TTL Positive
	Pulse Width	Equal to Gate Pulse Width
	Gate Delay to Output	±20 ns Max.
Power Consumption		18 VA Max.
Weight		Head: 7.4 kg, Power Supply: 3.7 kg

DIMENSIONAL OUTLINE (Unit: mm)



HAMAMATSU

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TAPP1031E01
JUN. 1999