August 11, 1955

## WL-5997 Image Intensifier

The WL-5997 is a high vacuum tube designed to transduce x-radiation to visible radiation by electronic means. This tube produces an image of reduced size having a brightness increase of at least 200 times. X-radiation passing through the subject impinges on an input fluorescent screen 5 inches in diameter; a photoelectric surface in intimate contact with the input fluorescent screen converts the x-ray image to an electron image. The electron image is focused and accelerated toward a metal-backed phosphor screen one inch in diameter. The resulting fluorescent image is viewed in true orientation to the subject, by a suitable optical system, and nearly in original size. Fluoroscopy can be performed in a lighted room without dark adaptation of the observer's eyes.

## GENERAL DATA

Brightness I Minification														_	O X	min.
Definition o							•	•	•	•	•	•	•	٠. د	_	
																area
		35	5-m	esh	0	ve	۲ ۲	759	6 (	(mj	Ln,	. )	of	SCI	reen	area
Operating Vol	ltage	s:														
Output Scr	een V	rol <sup>1</sup>	tag	e.										30	max	kv.
No. 5 Lens			•		•			•					4	4.8		kν.
No. 4 Lens														8.1		kv.
No. 3 Lens													0,	,68		kv.
No. 2 Lens													(	2.0		kv.
No. 1 Lens															g	round
Cathode															g	round
Operating Cur													2	250	J	μа

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