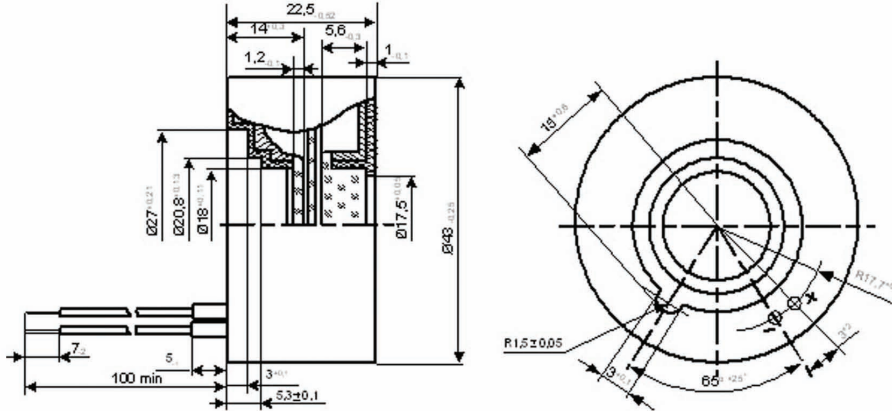


Small size Generation 2+/3 image intensifier tubes with direct image transfer.

The tube has a microchannel plate, a photocathode made of multialkali metal (Gen. 2+) or GaAs (Gen.3), a yellow-green color screen, a built-in wrap-around power supply, and flat surface glass input and output windows.

This type of tubes complies with all relevant military standards and specifications.



Compatible with most of NVS7 series goggles.

SPECIFICATIONS				
	NC064322	NCXT4322	N3064322	N3XT4322
Grade	HD	XT	HD	XT
Photocathode operating diameter, mm	18	18	18	18
Photocathode material	S-25	S-25	GaAs	S-25
Resolution, lp/mm	45-57	57-64	45-57	57-64
Photocathode sensitivity, $\mu\text{A/lm}$	500-600	600-750	1,200-2,100	1,500-2,100
Light gain, minimum	25,000	25,000	25,000	25,000
Image magnification	1	1	1	1
Dark background brightness, max, $\text{cd/m}^2$	$1.5 \times 10^{-3}$	$1.5 \times 10^{-3}$	$1.5 \times 10^{-3}$	$1.5 \times 10^{-3}$
Signal-to-noise ratio	16-20	18-2220-23	18-24	20-24
Current consumption, max, mA	16	16	25	25
Voltage, V	$2.8 \pm 0.8$	$2.8 \pm 0.8$	$2.8 \pm 0.8$	$2.8 \pm 0.8$
Weight, g	50	50	50	50
Mean time before failure, hours	10,000	15,000	10,000	15,000
Storage time, years	15	15	15	15

Environmental resistance	
Sinusoidal vibration (vibration strength):	
Frequency range, Hz	1-500
Acceleration, $\text{m/s}^2$ (g)	50 (5)
Mechanical shocks:	
Shock, $\text{m/s}^2$ (g)	3,000 (300)
Operating temperature range, $^{\circ}\text{C}$	-40 ... +55

Modulation transfer function		
Frequency, lp/mm	HD grade	XT grade
2.5	0.89	0.92
7.5	0.68	0.80
15.0	0.40	0.58

Field of view cleanness					
Zone Number	Circular zone Dimensions, mm	Maximum diameter of defects			Accepted total area of defects, $\text{mm}^2$
		Neglected	Accepted		
			Diameter, mm	Quantity	
1	0 - 9.0	0.10	0.15	1	0.15
2	9.0 - 14.5	0.12	0.25	2	0.30
3	14.5 - 18.0	0.15	0.35	2	0.50