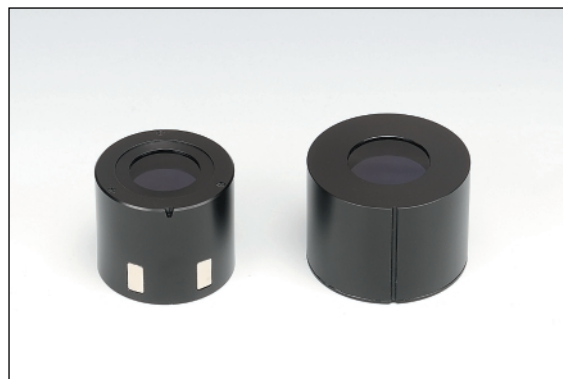


FEATURES

- High Photocathode Sensitivity (GaAs Photocathode)
- ABC (Automatic Brightness Control)
- Bright Source Protection
- High Luminous Gain
- No Image Distortion
- Compact and Light Weight
- Auto Gating Function (V6833P-G)

APPLICATIONS

- Night Viewer
Goggle, Hand Held Scope, HMD (Head Mount Display) etc.



Left: V6833P, Right: V7090P

SPECIFICATIONS

GENERAL

Parameter		V6833P / V6833P-G / V7090P	Unit
Input Voltage		+2 to +3	V
Max. Input Voltage		+3.5	V
Max. Input Current		35	mA
Spectral Response		370 to 920	nm
Wavelength of Peak Response		600 to 750	nm
Photocathode	Material	GaAs	—
	Minimum Effective Diameter	17.5	mm
Input Window	Material	Borosilicate Glass	—
	Thickness	5.5	mm
	Index of Refraction (at 588 nm)	1.49	—
Stage of MCP		1	—
Phosphor Screen	Material	P43	—
	Minimum Effective Diameter	17.5	mm
Output Window Material		V6833P / V6833P-G: Inverting Concave Fiber Optic Plate V7090P: Straight Concave Fiber Optic Plate	—
Case Material		POM (Polyoxymethylene)	—
Weight		V6833P / V6833P-G: Approx. 80 / V7090P: Approx. 85	g
Operating Ambient Temperature		-20 to +40	°C
Operating Ambient Humidity ^(A)		Below 70	% RH
Storage Temperature		-55 to +60	°C
Storage Humidity ^(A)		Below 70	% RH

NOTE: (A) No condensation

CHARACTERISTICS (at +20 °C)

Parameter		Min.	Typ.	Max.	Unit
Photocathode Sensitivity	Luminous	1000	1500	—	μA/lm
	Radiant ^(B)	—	170	—	mA/W
	Quantum Efficiency ^(B)	—	30	—	%
Luminous Gain		1.0×10^4	4.0×10^4	—	(lm/m ²) / lx
EBI	Luminous	—	1.0×10^{-11}	5.0×10^{-11}	lm/cm ²
Limiting Resolution		51	64	—	Lp/mm
MTF	2.5 lp/mm	—	92	—	%
	7.5 lp/mm	—	80	—	%
	15 lp/mm	—	61	—	%
	25 lp/mm	—	38	—	%
Magnification		0.96	—	1.04	—

NOTE: (B) At the wavelength of peak response

