

SUPERIOR HIGH-SPEED ANALYSIS



Streak Tubes

Pico-second timing

Photonis high resolution streak tubes set the standard in image resolution and reliability. With a wide range of spatial and temporal resolutions, Photonis streak tubes support extremely high speed applications with simple connections to common camera equipment.

Photonis streak tubes can provide spatial resolution up to 50 lp/mm, temporal resolution to sub-picosecond in streak mode, or exposure times less than 10 ns in framing mode making them a versatile solution to support a wide range of applications.



For the visible spectrum

basic type number	temporal range of tube	accelerating electrode	operating mode	typ. static spatial reslout. (lp/mm)	typ. temporal resolut. (ps)	typ. radian power gain	shutter radio (min)	effective photo-cathode size (mm)	typ. magnification	output window dia. (mm)	phosphor screen	supply voltage	typical deflection sensitivity (V/cm)
P500 Family													
P510	P	slit	streak	15	5	15	10 ⁵	35x4	1.3	64	P22N	15	500
P510	N	slit	streak	30	150	30	10 ⁵	35x4	0.75	64	P22N	15	500
P510	N	grid	streak/frame	25	300	30	10 ⁵	3x25	0.75	64	P22N	15	500
P520	P	mesh	streak/frame	20	5	15	10 ⁵	Ø10	0.75	64	P22N	15	300
P520	P	mesh	synchro scan	20	5	10	10 ⁵	Ø10	1.5	64	P22N	10	200
P900 Family													
P920	P	mesh	streak	20	2	20	10 ⁵	Ø10	1.5	18	P22N	15	450
P920	P	mesh	synchro scan	20	5	10	10 ⁵	Ø10	1.5	18	P22N	10	300
P930	N	slit	streak	50	100	40	10 ⁵	18x3	0.8	30	P22N	15	700
P940	P	mesh	streak	20	5	550	10 ⁵	Ø8	2	18	P22N	16	125
P940	P	mesh	synchro scan	20	5	550	10 ⁵	Ø8	2	18	P22N	16	125
P800 Family (bimellar tube)													
P820	P	mesh	streak	25	2	n/a	10 ⁶	10x1	1.5	30	P22N	10	400
P820	P	slit	streak	25	1	n/a	10 ⁶	15x1	1.5	30	P22N	15	600

For the X-Ray spectrum

basic type number	temporal range of tube	accelerating electrode	operating mode	typ. static spatial reslout. (lp/mm)	typ. temporal resolut. (ps)	typ. radian power gain	shutter radio (min)	effective photo-cathode size (mm)	typ. magnification	output window dia. (mm)	phosphor screen	supply voltage	typical deflection sensitivity (V/cm)
P500 Family													
P552X	P	slit	streak	10	20	n/a	n/m	15x3	1.3	64	P22N	15	500
P552X	P	mesh	streak	10	20	n/a	n/m	Ø10	1.5	64	P22N	15	500
P900 Family													
P952X	P	mesh	streak	n/m	n/m	n/a	n/m	Ø8	1.5	18	P22N	15	400
P800 Family (bimellar tube)													
P850X	P	slit	streak	25	4	n/a	n/m	10x1	1.5	30	P22N	15	400
P860X	P	slit	streak	25	1	n/a	n/m	10x1	1.5	30	P22N	15	650

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