

# pco.dicam series

product overview



intensified  
sCMOS

pco.

An Excelitas Technologies Brand

After more than 30 years of experience with image intensified cameras, we are proud to introduce our advanced pco.dicam portfolio to you. The pco.dicam UHS and LT products are our new members of the intensified camera series that exploits the full performance inherent to **scientific CMOS** sensor technology. One of the key benefits of using an sCMOS based camera module inside our pco.dicam products – besides high sensitivity, dynamic, and resolution – is the high frame rate at full pixel resolution. Below, you will find an overview about our latest intensified camera portfolio. For further information, please contact us at any time.

Variant	high resolution		ultra high speed		no export restrictions	
Camera	pco.dicam C1		pco.dicam C1 UHS		pco.dicam C1 LT	pco.dicam C1 LX
intensifier diameter [mm]	25	25	18	18	18	25
photo cathode material	S20	GaAs, GaAsP	S20	GaAs, GaAsP	S20	S20
intensifier quality grade	selected	standard / selected	selected	standard	selected	selected
phosphor screen material	P43 or P46	P43 or P46	P43 or P46	P43 or P46	P46	P46
default intensifier input window	synthetic silica	borosilicate	synthetic silica	borosilicate	synthetic silica	synthetic silica
optional intensifier input window	MgF2	none	MgF2	none	none	none
resolution width x height [pixel]	2048 x 2048	2048 x 2048	1504 x 1504	1504 x 1504	1504 x 1504	2048 x 2048
frame rate at full resolution [fps]	106	106	143	143	120	106
typical shortest exposure time [ns]	4	4	2.5	4	51	51
default mount	F–mount	F–mount	F–mount	F–mount	F–mount	F–mount
optional mount	C–mount Canon EF mount	C–mount Canon EF mount	C–mount Canon EF mount	C–mount Canon EF mount	none	none
final test sheet	included	included	included	included	on request	on request

Variant	high resolution		ultra high speed		no export restrictions	
Camera	pco.dicam C4		pco.dicam C4 UHS		pco.dicam C4 LT	pco.dicam C4 LX
intensifier diameter [mm]	25	25	18	18	18	25
photo cathode material	S20	GaAs, GaAsP	S20	GaAs, GaAsP	S20	S20
intensifier quality grade	selected	standard / selected	selected	standard	selected	selected
phosphor screen material	P43 or P46	P43 or P46	P43 or P46	P43 or P46	P46	P46
resolution width x height [pixel]	2048 x 2048	2048 x 2048	1504 x 1504	1504 x 1504	1504 x 1504	2048 x 2048
frame rate at full resolution [fps]	424	424	572	572	120	120
typical shortest exposure time [ns]	4	4	2.5	4	51	51
default mount	F–mount	F–mount	F–mount	F–mount	F–mount	F–mount
optional mount	Canon EF mount	Canon EF mount	Canon EF mount	Canon EF mount	none	none
final test sheet	included	included	included	included	on request	on request

Variant	high resolution		ultra high speed		no export restrictions	
Camera	pco.dicam C8		pco.dicam C8 UHS		pco.dicam C8 LT	pco.dicam C8 LX
intensifier diameter [mm]	25	25	18	18	18	25
photo cathode material	S20	GaAs, GaAsP	S20	GaAs, GaAsP	S20	S20
intensifier quality grade	selected	standard / selected	selected	standard	selected	selected
phosphor screen material	P43 or P46	P43 or P46	P43 or P46	P43 or P46	P46	P46
resolution width x height [pixel]	2048 x 2048	2048 x 2048	1504 x 1504	1504 x 1504	1504 x 1504	2048 x 2048
frame rate at full resolution [fps]	848	848	1144	1144	120	120
typical shortest exposure time [ns]	4	4	2.5	4	51	51
default mount	F–mount	F–mount	F–mount	F–mount	F–mount	F–mount
optional mount	Canon EF mount	Canon EF mount	Canon EF mount	Canon EF mount	none	none
final test sheet	included	included	included	included	on request	on request

