



## PRISM PRODUCTION

Here listed the most important prism models, not all the prisms have been reported and for a new prism please submit your inquiry, an Optec's people will contact you for further analysis and answers

GENERAL DESCRIPTION						
Type	P/N	Wavelength range [nm]	Max acceptable F/N	Clear Aperture [mm]	Max acceptable detector [mm]	Type of coating
Two Channel Prisms	BS-9905	430-680	2,0	27 x 10	6.6 x 8.8	metallic/dielectric
	NIRC0041	900-2300	2,8	35 x 15	13 x 10	dichroic
Three Channel Prisms	RGB1194	430-680	2,8	28 x 28	20 x 20	dichroic
	RGB2696	430-670	1,4	35 x 10	29 (2048 pixel)	dichroic
	RGB2697	430-680	2,8	40 x 28	37 x 25 (3000 x 2000 pixel)	dichroic
	RGB2787	430-680	2,0	27 x 10	8,8 x 6,6	dichroic
	RGB2797	430-670	4,0	12 x 6	3,7 x 4,8 (1/4")	dichroic
	RGB3194	430-680	1,4	22 x 22	22 x 22 (1024x1024 pixel)	dichroic
	RGB3795	430-680	2,8	34 x 34	30 x 30 (2048x2048 pixel)	dichroic
	RGB9901	430-680	2,0	38 x 20	15 x 20	dichroic
	RGB9939	430-680	2,8	40 x 55	24 x 36	dichroic



GENERAL DESCRIPTION						
Type	P/N	Wavelength range [nm]	Max acceptable F/N	Clear Aperture [mm]	Max acceptable detector [mm]	Type of coating
Three Channel Prisms	NIRB9934	900-2300	2,8	35 x 15	13 x 10	dichroic
	RGB0297	430-670	2,8	30 x 15	14 x 14 (1024x1024 pixel)	dichroic
Four Channel Prisms	RGBIR0193	430-950	5,6	10 x 10	4,6 x 6,9 (1/2")	dichroic
	RGBIR9804	430-950	2,0	30 x 8	14,5 (1024 pixel)	dichroic
	RGBIR-C0118	410-1100	2,8	45 x 32	41 diagonal (2K x 3K pixel)	dichroic
Five Channel Prisms	C0045	430-950	2,0	25 x 8	14,5 (1024 pixel)	dichroic
	C0813	400-1000	4,0	2/3"	2/3"	dichroic
Xcube	XCUBE9814	430-680	2,0	27 x 27	N.A.	dichroic
2 + 2 channel beam-splitter prisms	RGBIRC0915	400-1000	4,0	N.A.	2/3"	dichroic

All the prisms listed can be provided with different type of coating and performances like:

- Neutral Beam Splitter option with any kind of percentage per channels
- Dichroic coating in a large range from 400 nm to 2500nm
- Different material to cover all the range between 160 nm to 10 microns
- Different size, related to the sensor format or output useful area requirements
- Any kind of trimming filter on the output face of the prisms
- Any kind of mechanical arrangement
- High temperature option, able to reach the operative temperature more than 135°C
- for your better solution Optec can provide the subsystem with the sensor aligned with an accuracy better than 1/5 of the pixels, including matrix sensor starting from 1/4" format (or less) up to 4K x 3K sensor and linear up to 4K pixels.