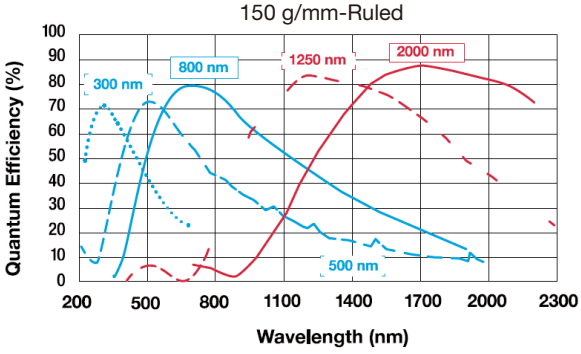
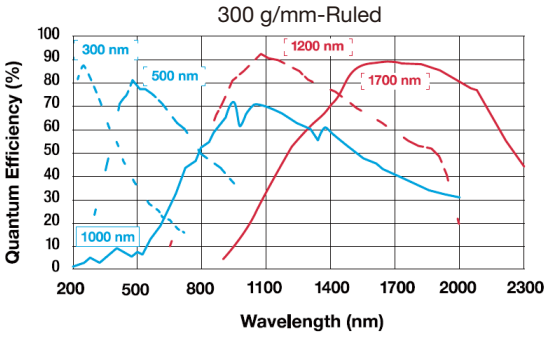
Gratings

Grating Curves

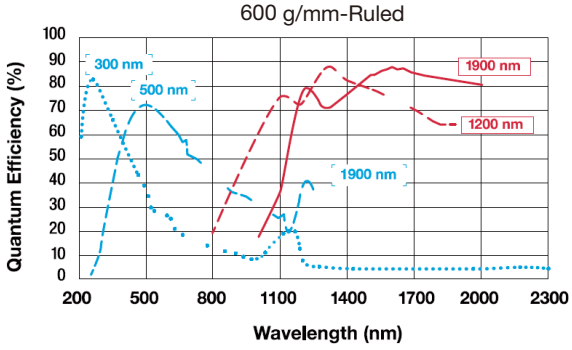
150 g/mm-Ruled



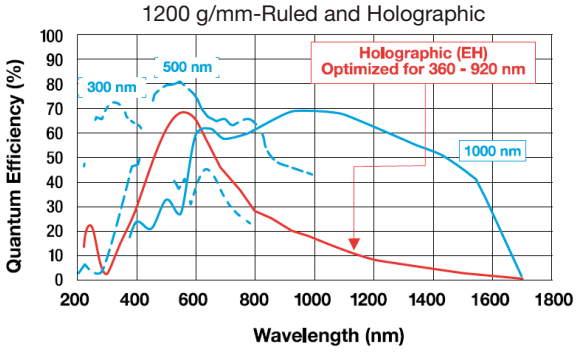
300 g/mm-Ruled



600 g/mm-Ruled



1200 g/mm-Ruled and Holographic



The Green Models are Used Commonly as We Suggested

Model	Range(nm)	Grooves(g/mm)	Blaze(nm)	Size(mm)
Holographic				
1-360-180-500-NP	180-400	3600	300	68 x 68
1-240-250-600-NP	250-600	2400	300	68 x 68
1-240-190-800-NP	190-600	2400	250	68 x 68
1-200-300-900-NP	300-720	2000	475	68 x 68
1-180-350-900-NP	350-800	1800	500	68 x 68
1-180-190-900-NP	190-800	1800	250	68 x 68
1-120-190-800-NP	190-800	1201.6	250	68 x 68
1-120-400-1200-NP	400-1200	1200	700	68 x 68
Ruled				
1-240-240-NP	190-600	2400	240	68 x 68
1-240-300-NP	250-600	2400	300	68 x 68
1-180-400-NP	300-800	1800	400	68 x 68
1-180-500-NP	350-800	1800	500	68 x 68
1-120-250-NP	200-500	1200	250	68 x 68
1-120-300-NP	200-600	1200	300	68 x 68
1-120-400-NP	200-1000	1200	400	68 x 68
1-120-500-NP	350-1100	1200	500	68 x 68
1-120-750-NP	500-1200	1200	750	68 x 68
1-090-550-NP	350-1600	900	550	68 x 68
1-083-1200-NP	700-1700	830	1200	68 x 68
1-060-300-NP	200-600	600	300	68 x 68
1-060-500-NP	330-1000	600	500	68 x 68
1-060-750-NP	500-1500	600	750	68 x 68
1-060-1000-NP	650-2200	600	1.0 μm	68 x 68
1-060-1200-NP	800-2400	600	1.2 μm	68 x 68
1-060-1600-NP	1-2.4 μm	600	1.6 μm	68 x 68
1-030-300-NP	200-600	300	300	68 x 68
1-030-500-NP	300-1000	300	500	68 x 68
1-030-760-NP	450-1500	300	760	68 x 68
1-030-1000-NP	600-2000	300	1000	68 x 68
1-030-1200-NP	800-2200	300	1200	68 x 68
1-030-2000-NP	1.4-4 μm	300	2.0 μm	68 x 68
1-030-3000-NP	2-4.8 μm	300	3.0 μm	68 x 68
1-015-300-NP	200-600	150	300	68 x 68
1-015-500-NP	330-1100	150	500	68 x 68
1-015-800-NP	400-1600	150	800	68 x 68
1-015-1000-NP	600-2000	150	1090	68 x 68
1-015-1250-NP	800-2500	150	1250	68 x 68
1-015-2000-NP	1.1-4 μm	150	2 μm	68 x 68
1-015-3000-NP	2.2-4 μm	150	3 μm	68 x 68
1-015-4000-NP	2.5-8 μm	150	4 μm	68 x 68
1-0075-8000-NP	6-16 μm	75	8 μm	68 x 68
1-0075-10000-NP	6-18 μm	75	10 μm	68 x 68
1-0075-12000-NP	9-20 μm	75	12.0 μm	68 x 68
1-0050-12000-NP	8-22 μm	50	12 μm	68 x 68

Dispersion and Wavelength Coverage

Model	Grating (g/mm)	Dispersion★ (nm/mm)	Spectrometer Mechanical Range (nm)	CCD Resolution with 13.5um pixels (nm)	PMT Resolution (nm)	Spectral Coverage with 30mm CCD (nm)
Omni-λ200i	3600	1	0 to 400	0.1	0.05	30
	2400	1.4	0 to 600	0.14	0.08	42
	1800	2.16	0 to 800	0.2	0.1	64
	1200	3.6	0 to 1200	0.28	0.15	108
	900	4.96	0 to 1600	0.4	0.2	148
	600	7.68	0 to 2400	0.56	0.3	230
	300	15.77	0 to 4800	1.12	0.6	473
	150	31.89	0 to 9600	2.24	1.2	956
Omni-λ300i	3600	0.66	0 to 400	0.058	0.03	20
	2400	0.91	0 to 600	0.087	0.04	27
	1800	1.39	0 to 800	0.116	0.05	42
	1200	2.28	0 to 1200	0.174	0.08	68
	900	3.16	0 to 1600	0.232	0.11	95
	600	4.87	0 to 2400	0.348	0.16	146
	300	9.97	0 to 4800	0.696	0.32	299
	150	20.13	0 to 9600	1.392	0.64	604
Omni-λ500i	3600	0.43	0 to 400	0.033	0.02	13
	2400	0.6	0 to 600	0.050	0.03	18
	1800	0.91	0 to 800	0.067	0.04	27
	1200	1.5	0 to 1200	0.100	0.05	45
	900	2	0 to 1600	0.133	0.07	60
	600	3.15	0 to 2400	0.200	0.10	95
	300	6.43	0 to 4800	0.400	0.20	193
	150	12.97	0 to 9600	0.800	0.40	389
Omni-λ750i	3600	0.3	0 to 400	0.022	0.01	9
	2400	0.43	0 to 600	0.034	0.02	13
	1800	0.64	0 to 800	0.045	0.02	19
	1200	1	0 to 1200	0.067	0.03	30
	900	1.4	0 to 1600	0.089	0.04	42
	600	2.14	0 to 2400	0.134	0.06	64
	300	4.36	0 to 4800	0.268	0.12	131
	150	8.77	0 to 9600	0.536	0.24	263

"★ Center Wavelength of 253.65 nm used with 3600 g/mm grating Center Wavelength of 435.833 nm used with all other gratings Dispersion may vary at different wavelengths"

☆ Spectral range will depend not only on Mechanical Range, but also the grating Blaze Wavelength

◆ Listed Resolution values are not at the same wavelength, the specified wavelength is close to blaze wavelength