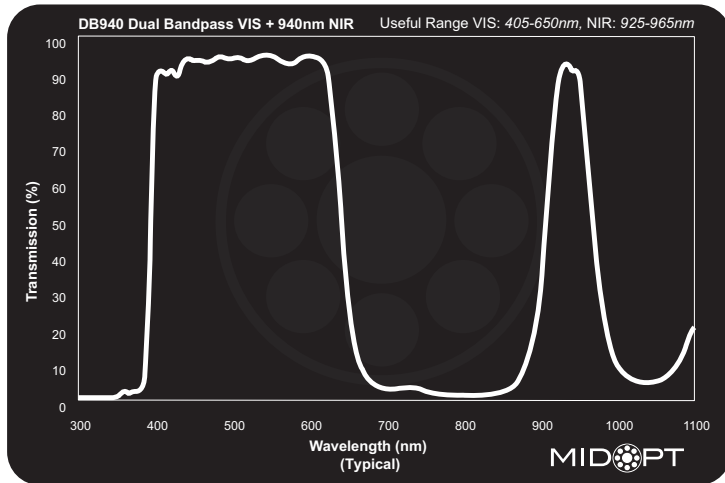
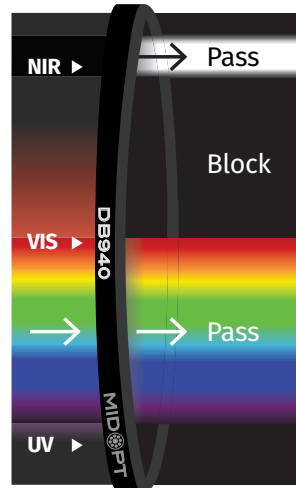


DB940 DUAL BANDPASS VIS + 940NM NIR

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A DB940 filter passes visible and 940nm LED light. 940nm LEDs do not emit the faint red glow associated with 850nm and other lower near-IR LED wavelengths. Using a DB940 filter over or behind the lens allows full color imaging during the day and covert surveillance at night. However any camera's spectral response at 940nm will be lower than at other, shorter near-IR wavelengths, so relative sensitivity of each camera's imaging sensor at 940nm must also be considered.



Useful Range: 405-650nm, 925-965nm
FWHM: 250nm, 60nm
Peak Transmission: ≥90%
Surface Quality: 40/20
Compatible LED: 940nm, 950nm

FILTER MOUNT & SIZE OPTIONS

Threaded Mount



For lenses with filter threads; Mount Sizes M13.25 - M82

Part #	Thread Dia x Pitch	Part #	Thread Dia x Pitch
DB940-13.25	M13.25 x P0.5	DB940-43	M43 x P0.75
DB940-22.5	M22.5 x P0.5	DB940-46	M46 x P0.75
DB940-25.4	M25.4 x P32TPI	DB940-48	M48 x P0.75
DB940-25.5	M25.5 x P0.5	DB940-49	M49 x P0.75
DB940-27	M27 x P0.5	DB940-52	M52 x P0.75
DB940-30.5	M30.5 x P0.5	DB940-55	M55 x P0.75
DB940-34	M34 x P0.5	DB940-58	M58 x P0.75
DB940-35.5	M35.5 x P0.5	DB940-62	M62 x P0.75
DB940-37	M37 x P0.75	DB940-67	M67 x P0.75
DB940-37.5	M37.5 x P0.5	DB940-72	M72 x P0.75
DB940-39	M39 x P0.5	DB940-77	M77 x P0.75
DB940-40.5	M40.5 x P0.5	DB940-82	M82 x P0.75

25.4™ C-Mount



Threads between lens and sensor

Part #: DB940-25.4

Slip Mount



- Designed for lenses without filter threads, varifocal and wide-angle lenses
- Includes locking set screws to secure adapter to lens

Create Part #

Use "S" and add the outside diameter of lens in mm (ex: 43mm)

Example: DB940-S43

Unmounted

Custom shapes & sizes available

Create Part #

CIRCLE: Use "D" and add diameter in mm (ex: 19mm)

Example: DB940-D19

RECTANGLE: Use "R" and add length in mm (ex: 30mm) x width in mm (ex: 15mm)

Example: DB940-R30x15

SQUARE: Use "R" and add side measurement in mm (ex: 15mm)

Example: DB940-R15

DB940 DATA POINTS (TYPICAL)

Wavelength (nm)	Transmission (%)	Wavelength (nm)	Transmission (%)	Wavelength (nm)	Transmission (%)	Wavelength (nm)	Transmission (%)
1100	1.30	910	27.90	720	0.03	530	93.49
1090	1.56	900	6.03	710	0.06	520	91.15
1080	1.50	890	2.17	700	0.17	510	91.54
1070	1.16	880	0.69	690	0.53	500	91.00
1060	0.81	870	0.32	680	1.58	490	88.74
1050	0.65	860	0.45	670	10.85	480	87.04
1040	0.64	850	0.21	660	60.24	470	91.14
1030	0.79	840	0.07	650	88.86	460	86.54
1020	1.29	830	0.04	640	89.26	450	89.61
1010	2.76	820	0.02	630	90.24	440	83.04
1000	7.61	810	0.03	620	91.44	430	81.28
990	20.75	800	0.04	610	92.50	420	86.60
980	44.28	790	0.19	600	93.94	410	87.73
970	69.36	780	0.35	590	94.11	400	79.55
960	84.77	770	0.17	580	93.64	390	40.15
950	90.75	760	0.19	570	93.32	380	5.89
940	92.59	750	0.17	560	92.55	370	1.46
930	89.53	740	0.06	550	93.87	360	0.13
920	72.02	730	0.03	540	93.27	350	0.00

*Due to continuous product improvement, specifications are subject to change without notice. For the most up-to-date information visit www.midopt.com