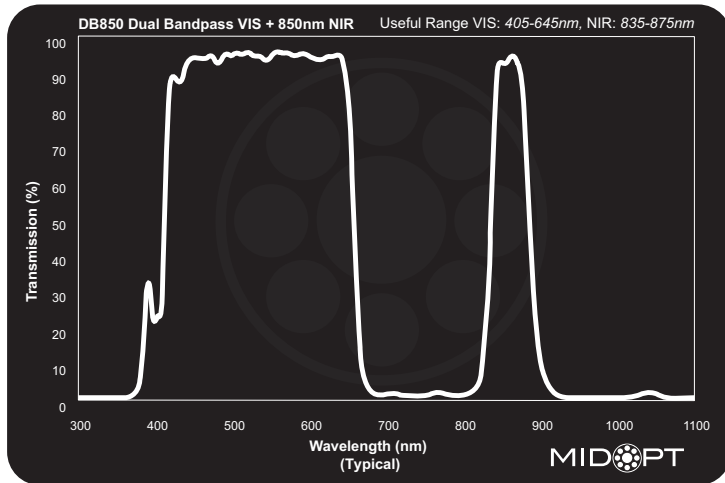
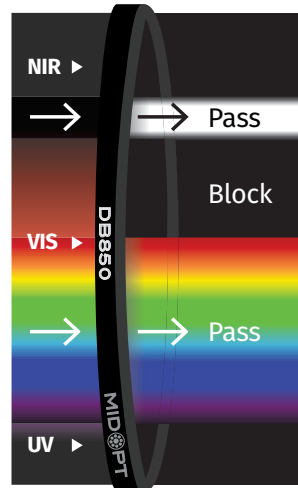


DB850 DUAL BANDPASS VIS + 850NM NIR

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A DB850 filter passes visible and 850nm LED or laser diode illumination. 850nm LEDs are perhaps the brightest of all infrared LEDs. Using a DB850 filter over (or behind) the camera lens allows for full color imaging by day and excellent monochrome contrast at night. Useful for machine vision and day/night surveillance applications.



Useful Range: 405-645nm, 835-875nm
FWHM: 250nm, 50nm
Peak Transmission: ≥90%
Surface Quality: 40/20
Compatible LED: 840nm, 850nm

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
DB850-13.25	M13.25 x P0.5	DB850-43	M43 x P0.75
DB850-22.5	M22.5 x P0.5	DB850-46	M46 x P0.75
DB850-25.4	M25.4 x P32TPI	DB850-48	M48 x P0.75
DB850-25.5	M25.5 x P0.5	DB850-49	M49 x P0.75
DB850-27	M27 x P0.5	DB850-52	M52 x P0.75
DB850-30.5	M30.5 x P0.5	DB850-55	M55 x P0.75
DB850-34	M34 x P0.5	DB850-58	M58 x P0.75
DB850-35.5	M35.5 x P0.5	DB850-62	M62 x P0.75
DB850-37	M37 x P0.75	DB850-67	M67 x P0.75
DB850-37.5	M37.5 x P0.5	DB850-72	M72 x P0.75
DB850-39	M39 x P0.5	DB850-77	M77 x P0.75
DB850-40.5	M40.5 x P0.5	DB850-82	M82 x P0.75

25.4™ C-Mount



Threads between lens and sensor

Part #: DB850-25.4

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: DB850-S43

Unmounted

Custom shapes & sizes available

Create Part

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

Example: DB850-D19

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

Example: DB850-R30x15

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

Example: DB850-R15

DB850 DATA POINTS (TYPICAL)

Wavelength (nm)	Transmission (%)	Wavelength (nm)	Transmission (%)	Wavelength (nm)	Transmission (%)	Wavelength (nm)	Transmission (%)
1100	0.65	910	2.18	720	0.37	530	93.93
1090	0.49	900	6.51	710	0.75	520	94.61
1080	0.42	890	20.53	700	0.83	510	94.52
1070	0.44	880	60.88	690	0.71	500	94.51
1060	0.60	870	89.53	680	1.03	490	94.32
1050	1.02	860	93.97	670	3.64	480	92.27
1040	1.46	850	91.74	660	19.05	470	93.87
1030	1.35	840	89.05	650	71.61	460	93.30
1020	0.73	830	39.65	640	92.12	450	93.44
1010	0.30	820	7.53	630	94.02	440	92.61
1000	0.14	810	1.85	620	93.61	430	87.13
990	0.09	800	0.77	610	92.89	420	88.39
980	0.07	790	0.52	600	93.51	410	57.68
970	0.07	780	0.55	590	94.42	400	22.20
960	0.08	770	0.90	580	94.19	390	29.26
950	0.10	760	1.11	570	94.48	380	10.82
940	0.15	750	0.49	560	94.71	370	1.27
930	0.28	740	0.25	550	94.61	360	0.02
920	0.67	730	0.23	540	92.73	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