



Multi-Mode Reader Mirror & Filter List

Dichroic Mirrors

Important note about dichroic mirrors:

Dichroic mirrors are available in two sizes: full-size and half-size. Full-size mirrors are required for fluorescence polarization measurements. Please see table below for installation guideline and compatible measurement technologies: Refer to user's manual for detailed installation instructions.

	Install in mirror holder position #	Fluorescence Intensity	Time-Resolved Fluorescence	Fluorescence Polarization
Full-Size Mirror	3	Yes	Yes	Yes
Half-Size Mirror	1 or 2	Yes	Yes	No
7138365 (HTRF mirror)	1	Yes	Yes	No

Half-Size Part #	Full-Size Part #	Cut-off (nm)	Excitation Range	Emission Range	Main Applications
7132121	n/a	50%	200-850	200-850	All except FP
7138320	n/a	320	260-305	335-750	Tryptophan
7138365	n/a	365	290-350	380-800	HTRF, MMP, Quanta Blu
7138400	7137400	400	320-390	410-800	MUB, Europium Chelate, Hoechst 33258, Omnia, LanthaScreen, Adapta
7138435	7137435	435	385-425	445-610	Z'-Lyte
7138455	7137455	455	400-450	460-710	Attophos, CFP, Fluo-3
7138510	7137510	510	440-505	515-640	Fluorescein, Picogreen, FAM
7138525	7137525	525	475-520	530-670	Rhodamine 123, YFP
7138545	7137545	545	512-535	555-578	
7138550	7137550	550	415-540	560-850	CY3, HEX, Rhodamine 6G
7138555	7137555	555	541-550	560-595	
7138570	7137570	570	515-565	575-735	Alamar Blu, Amplex Red, TAMRA
7138595	7137595	595	540-590	600-770	ROX, Texas Red
7139635	n/a	635	640-780	400-630	AlphaScreen
7138660	7137660	660	580-655	665-850	CY5

Standard Filters

Standard filters are available for the most common applications and can be installed upon request on the instrument before it ships from BioTek.

Part #	Wavelength	Synergy 2&4	Synergy HT	FLx800	Main Applications
7082259	284/10	•			Tryptophan excitation
7082248	310/20	•	•	•	Tyrosine emission, O-aminobenzoyl excitation
7082250	320/20	•	•	•	7-methoxycoumarin and Quanta Blu excitation
7082263	330/80	•	•	•	HTRF excitation
7082254	340/11	•	•	•	Fura-2 excitation
7082230	340/30	•	•	•	NADH excitation and tryptophan emission
7082220	360/40	•	•	•	MUB, caspace-3, europium chelate excitation
7082228	380/20	•	•	•	Fura-2 and EBFP excitation
7082242	400/10	•	•	•	
7082205	400/30	•	•	•	Porphyrin excitation, O-aminobenzoyl and 7-methoxycoumarin emission
7082206	420/50	•	•	•	CFP excitation and Quanta-Blu emission
7082227	440/30	•	•	•	Attophos excitation and caspace-3 emission
7082207	440/40	•	•	•	NADH emission
7082208	450/50	•	•	•	CBQCA excitation
7082222	460/40	•	•	•	NanoOrange excitation and EBFP and MUB emission
7082221	485/20	•	•	•	Fluorescein, EGFP excitation and CFP emission
7082209	485/40	•	•	•	Propidium Iodide excitation
7082268	495/10	•	•	•	LanthaScreen Emission 1
7082256	500/27	•	•	•	YFP excitation
7082218	508/20	•	•	•	Fura-2 emission
7082246	516/20	•	•	•	EGFP emission
7082267	520/25	•	•	•	LanthaScreen emission 2, Alexa Fluor 532 excitation
7082247	528/20	•	•	•	VIC excitation and Fluorescein and EGFP emission
7082223	530/25	•	•	•	5-Tamra excitation
7082249	540/25	•	•	•	Alexa Fluor 546, CY3, and rhod2 excitation and EYFP emission

Part #	Wavelength	Synergy 2&4	Synergy HT	FLx800	Main Applications
7082253	540/35	•	•	•	Alamar Blu, Amplex red, RFP excitation
7082210	545/40	•	•	•	Rhodamine B excitation
7082215	560/15	•	•	•	Cell Titer Blue excitation
7082211	560/20	•	•	•	VIC emission
7082212	560/40	•	•	•	Attophos and CBQCA emission
7082264	570/100	•	•	•	AlphaScreen emission
7082245	575/15	•	•	•	ROX excitation and CY3 and 5-Tamra emission
7082244	580/50	•	•	•	NanoOrange and Attophos emission
7082225	590/20	•	•	•	Alexa Fluor 594 and Texas Red excitation and Cell Titer Blue emission
7082224	590/35	•	•	•	Rhod-2, Alexa Fluor 546, and CY3 emission
7082252	600/40	•	•	•	Alamar Blu, Amplex Red, RFP and porphyrin emission
7082265	620/10	•			HTRF / LANCE emission
7082251	620/15	•	•	•	ROX and Alexa Fluor 594 emission and Alexa Fluor 633 excitation
7082213	620/40	•	•	•	Rhodamine B, europium chelate emission, CY5 excitation
7082214	635/32	•	•	•	Texas Red emission
7082257	645/15	•	•	•	Alexa Fluor 633 emission
7082266	665/8	•			HTRF / LANCE emission
7082226	645/40	•	•	•	Texas Red and Propidium iodide emission
7082229	680/30	•	•	•	CY5 emission, AlphaScreen excitation

Custom Filters

Custom filters are available for the less common applications and unusual assay conditions where alternative filters might be required. **They ship separately from the instrument, and have a typical lead time of 6 weeks.**

Part #	Wavelength	Synergy 2&4	Synergy HT	FLx800	Main Applications
7092145	276/5	•			Tyrosine excitation
7092146	276/10	•			Tyrosine excitation
7092147	280/5	•			General protein excitation
7092148	280/10	•			General protein excitation
7092149	284/5	•			Tryptophan excitation
7092150	330/20	•	•	•	
7092151	355/20	•	•	•	MUB excitation
7092152	380/11	•	•	•	
7092153	395/25	•	•	•	wtGFP excitation
7092154	405/20	•	•	•	
7092155	410/10	•	•	•	
7092156	420/27	•	•	•	CFP, Alexa Fluor 430 excitation
7092157	470/40	•	•	•	Alternative fluorescein excitation
7092158	475/20	•	•	•	
7092159	485/10	•	•	•	
7092160	490/10	•	•	•	
7092162	500/20	•	•	•	Alternative YFP excitation
7092163	520/10	•	•	•	
7092164	520/20	•	•	•	
7092166	530/30	•	•	•	
7092167	532/40	•	•	•	Alternative fluorescein and EGFP emission
7092168	540/15	•	•	•	Cy3, Alexa fluor 546 excitation
7092169	540/45	•	•	•	Alternative fluorescein and EGFP emission
7092170	550/10	•	•	•	Alexa Fluor 555 excitation
7092171	556/10	•	•	•	Alamar Blu excitation, Alexa Fluor 532 emission
7092172	560/10	•	•	•	Alamar Blu excitation
7092173	570/10	•	•	•	Alexa Fluor 555 emission
7092174	575/10	•	•	•	Alexa Fluor 546 emission, Alexa Fluor 568 excITATION
7092175	580/10	•	•	•	
7092176	585/10	•	•	•	

Part #	Wavelength	Synergy 2&4	Synergy HT	FLx800	Main Applications
7092177	590/10	•	•	•	Texas Red excitation, Amplex red emission, Alamar Blu emission
7092178	596/15	•	•	•	
7092179	610/10	•	•	•	
7092180	625/10	•	•	•	
7092181	635/20	•	•	•	
7092182	645/10	•	•	•	Cy5 excitation
7092183	660/10	•	•	•	Cy5.5 excitation
7092184	665/34	•	•	•	
7092185	670/10	•	•	•	Cy5.5 excitation
7092186	671/20	•	•	•	Cy5.5 excitation
7092187	680/10	•	•	•	
7092188	680/20	•	•	•	
7092189	690/10	•	•	•	
7092190	700/20	Red PMT	Red PMT	Red PMT	Cy5.5 emission
7092191	710/20	Red PMT	Red PMT	Red PMT	Cy5.5 emission
7092192	730/40	Red PMT	Red PMT	Red PMT	Cy5.5 emission
7092193	760/20	Red PMT	Red PMT	Red PMT	
7092194	760/34	Red PMT	Red PMT	Red PMT	
7092195	781/20	Red PMT	Red PMT	Red PMT	
7092196	785/20	Red PMT	Red PMT	Red PMT	
7092197	807/25	Red PMT	Red PMT	Red PMT	
7092198	818/40	Red PMT	Red PMT	Red PMT	

Drug Discovery Filter Sets

Cisbio Assays

Assay Technology	Excitation	Emission 1	Emission 2	Dichroic
HTRF	330/80 7082263	620/10 7082265	665/8 7082266	365 nm 7138365

Invitrogen Assays

Assay Technology	Excitation	Emission 1	Emission 2	Dichroic
LanthaScreen	340/30 7082230	495/10 7082268	520/25 7082267	400 nm 7138400
Adapta	340/30 7082230	620/10 7082265	665/8 7082266	400 nm 7138400
Omnia	360/40 7082220	485/20 7082221	n/a	400 nm 7138400
Z'-Lyte	400/30 7082205	460/40 7082222	528/20 7082247	435 nm 7138435
GeneBLAzer	400/30 7082205	460/40 7082222	528/20 7082247	n/a (Bottom)
PolarScreen (green FP)	485/20 7082221	528/20 7082247	n/a	510 nm 7137510
PolarScreen (red FP)	530/25 7082223	590/35 7082224	n/a	570 nm 7137570
Predictor (red FP)	530/25 7082223	590/35 7082224	n/a	570 nm 7137570

Perkin Elmer Assays

Assay Technology	Excitation	Emission 1	Emission 2	Dichroic
LANCE	360/40 7082220	620/10 7082265	665/8 7082266	400 nm 7138400
DELFI	360/40 7082220	620/40 7082213	n/a	400 nm 7138400
AlphaScreen / AlphaLISA	680/30 7082229	570/100 7082264	n/a	635 nm 7139635

Bellbrook Assays

Assay Technology	Excitation	Emission 1	Emission 2	Dichroic
Transcreener Far Red (FP)	620/40 7082213	680/30 7082229	n/a	660 nm 7137660