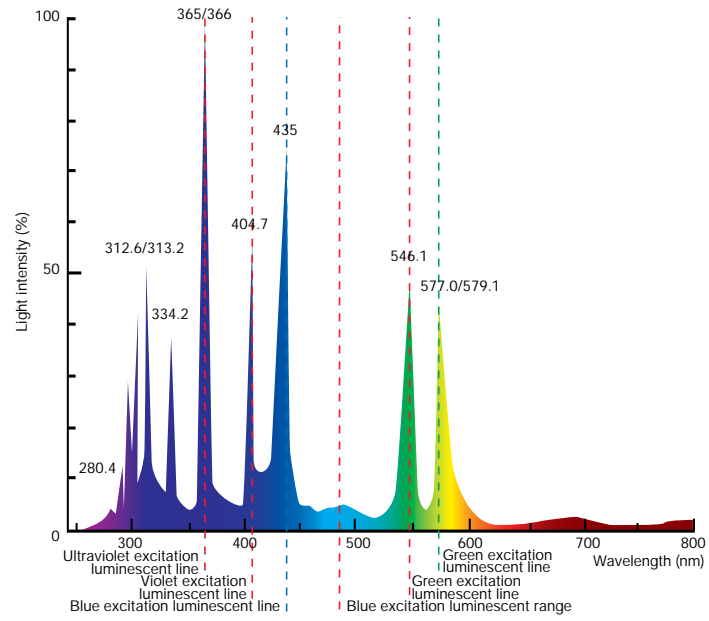
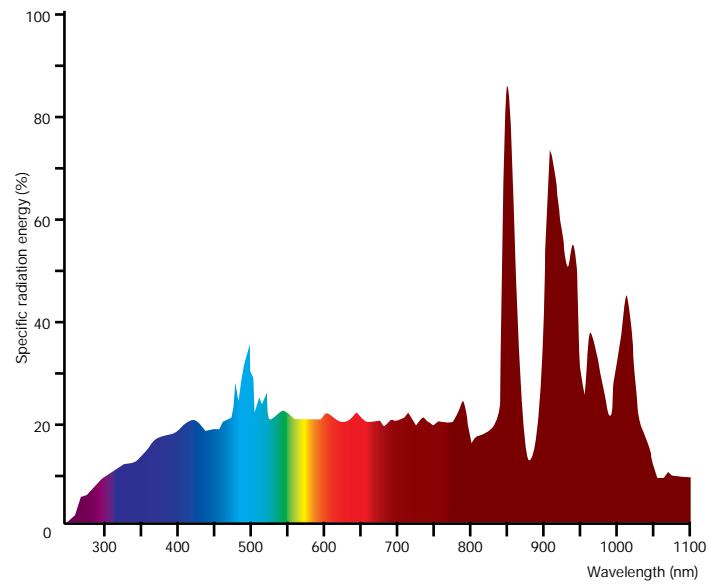


# Light Source Spectral Characteristics

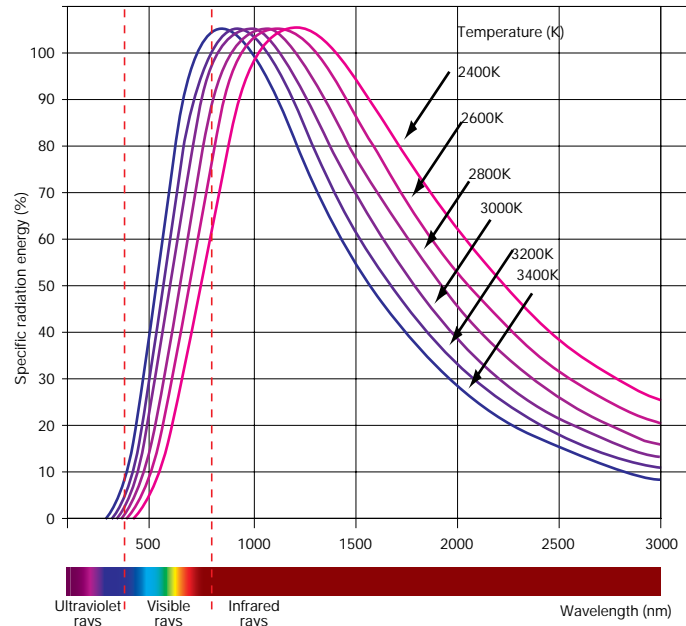
Mercury lamp



Xenon lamp



Halogen lamp



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- OLYMPUS CORPORATION is FM553994/ISO9001 certified.
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# OLYMPUS®

Your Vision, Our Future

# UIS2 Fluorescence Mirror Units

NEW

## Technical Specifications



OLYMPUS®

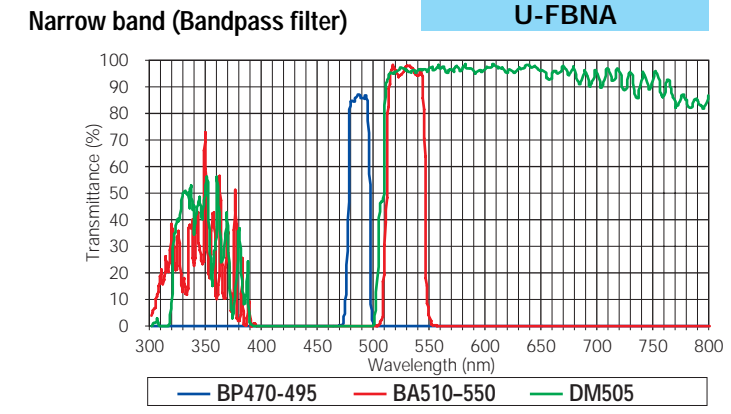
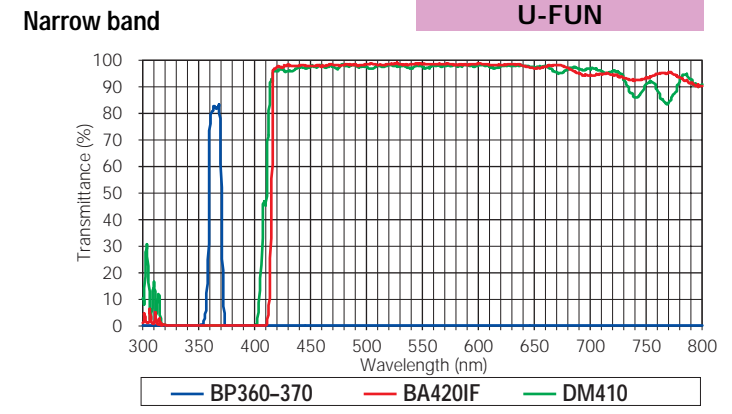
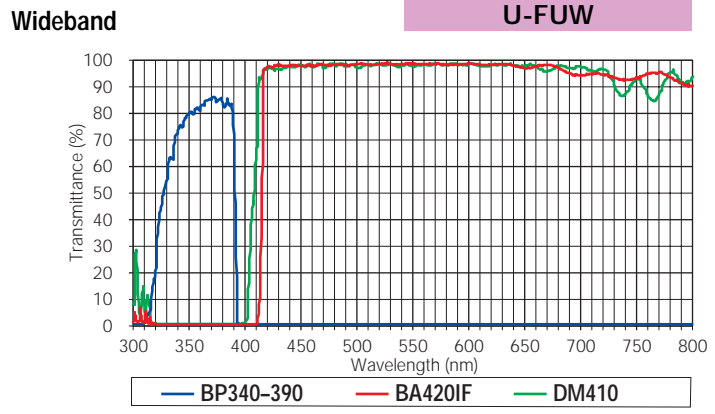
OLYMPUS CORPORATION  
Shinjuku Monolith, 3-1, Nishi Shinjuku 2-chome, Shinjuku-ku, Tokyo, Japan  
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491B River Valley Road, #12-01/04 Valley Point Office Tower, Singapore 248373  
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OLYMPUS (CHINA) CO., LTD.  
A8F, Ping An International Financial Center, No. 1-3, Xinyuan South Road,  
Chaoyang District, Beijing, China, 100027

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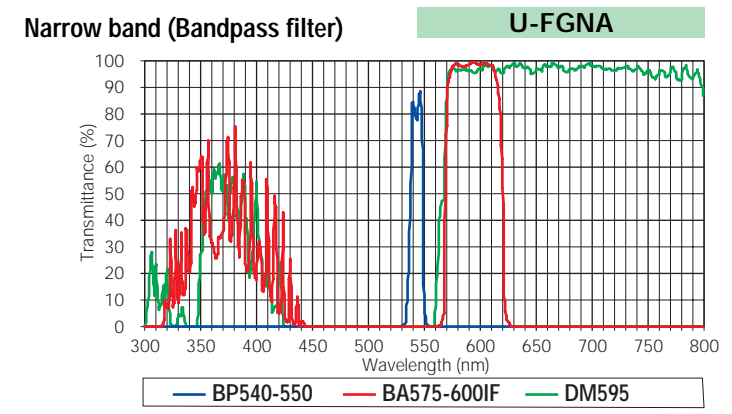
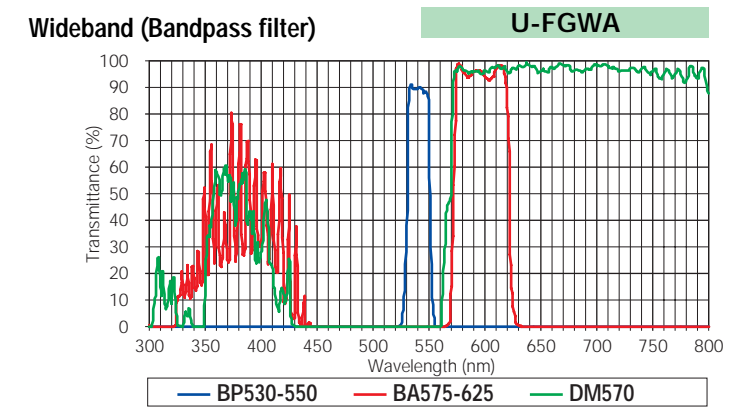
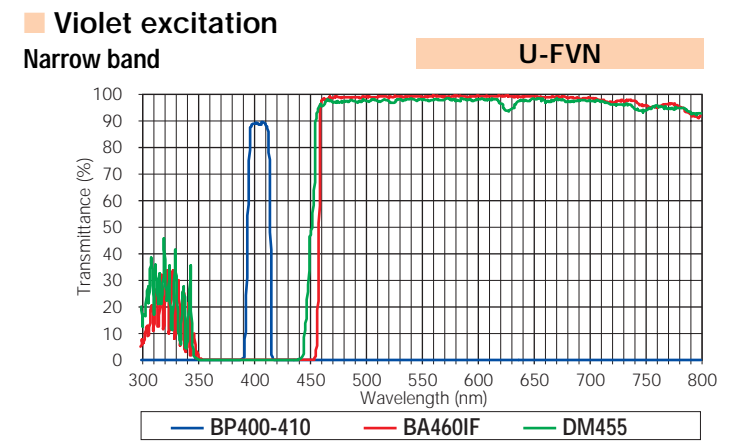
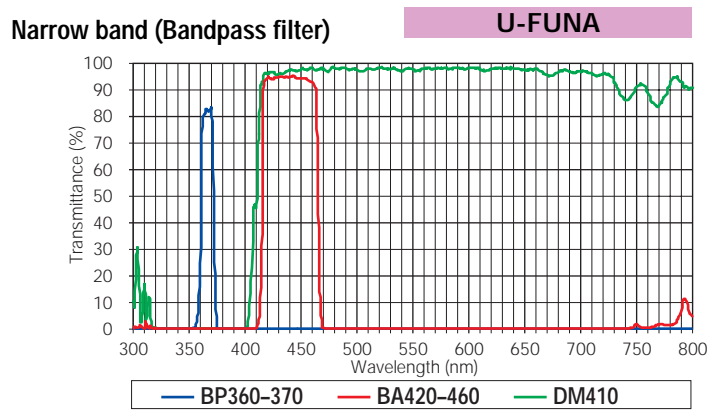
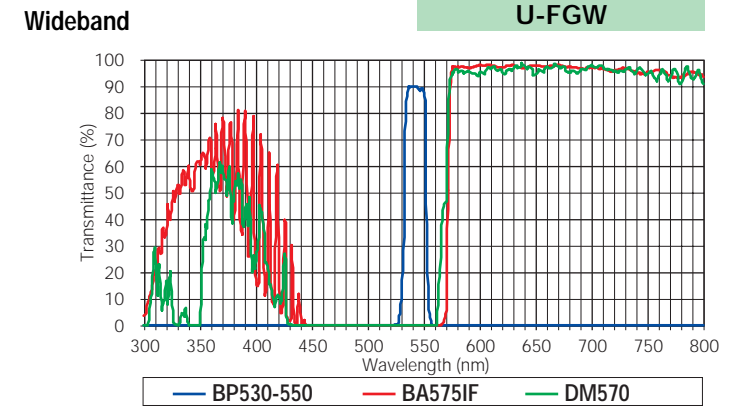
Printed in Japan M1710E-0310B

UIS2  
World-leading optics

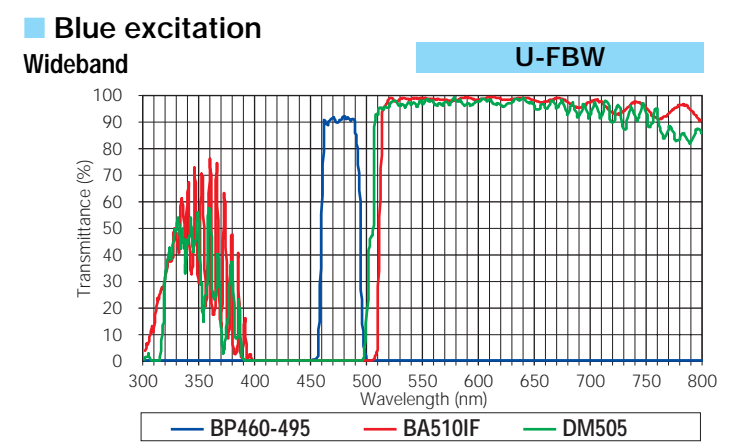
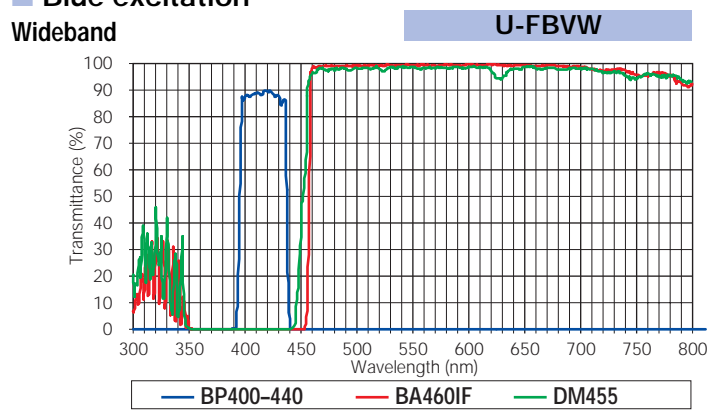
**Ultraviolet excitation**



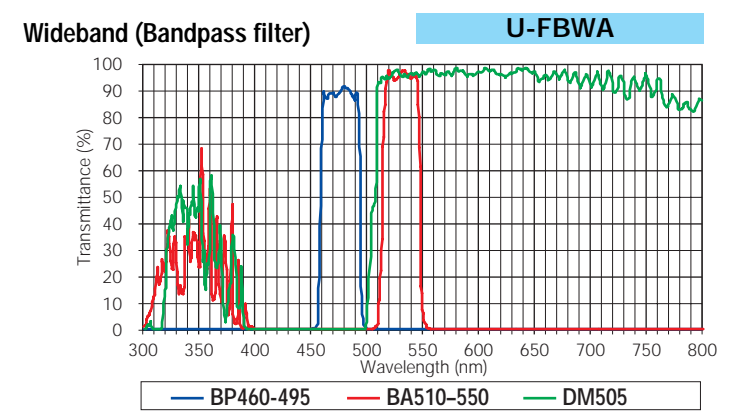
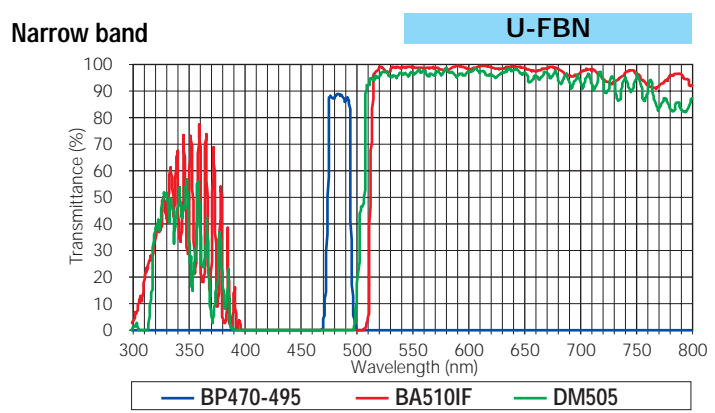
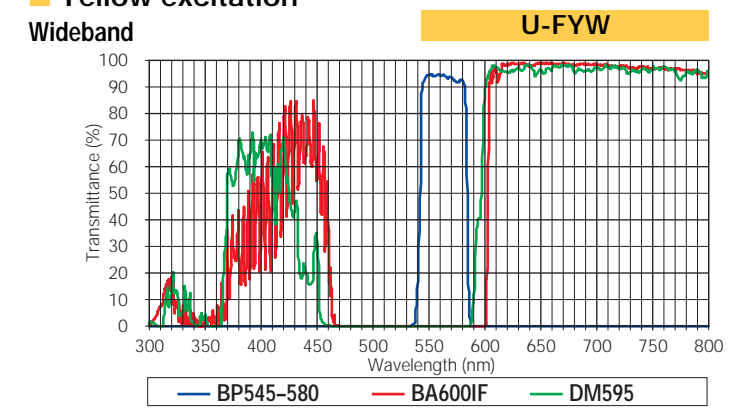
**Green excitation**

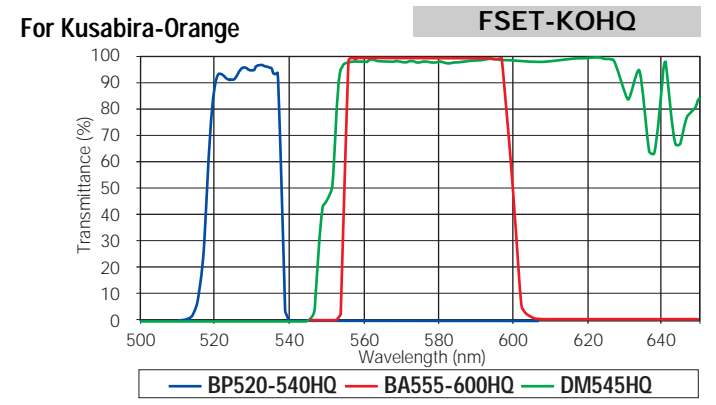
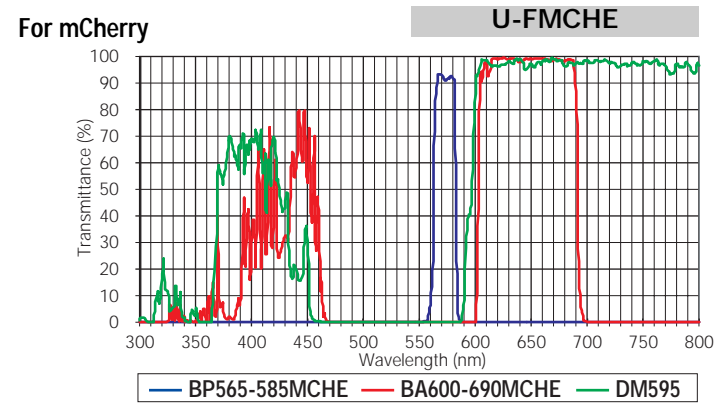
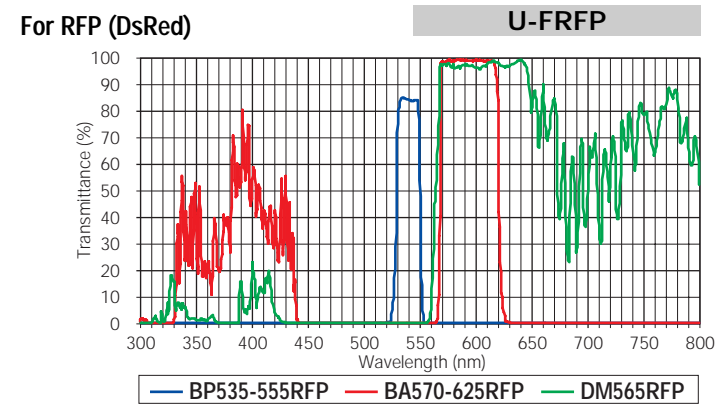
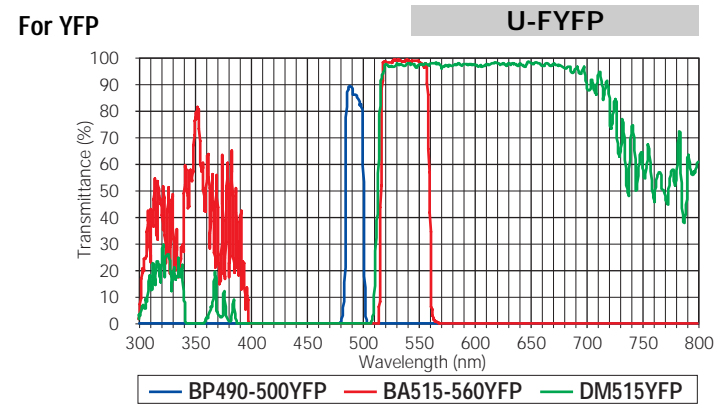
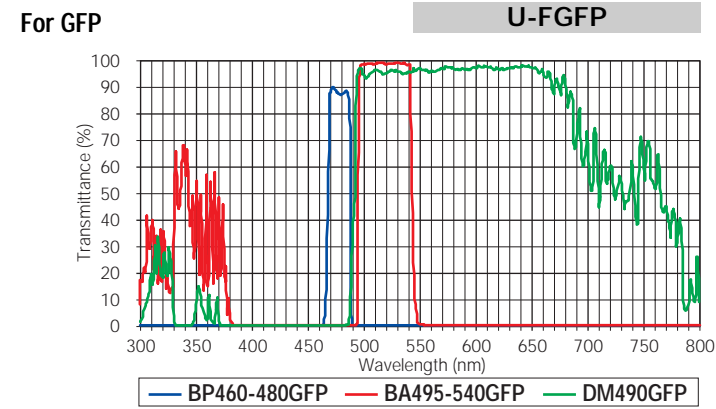
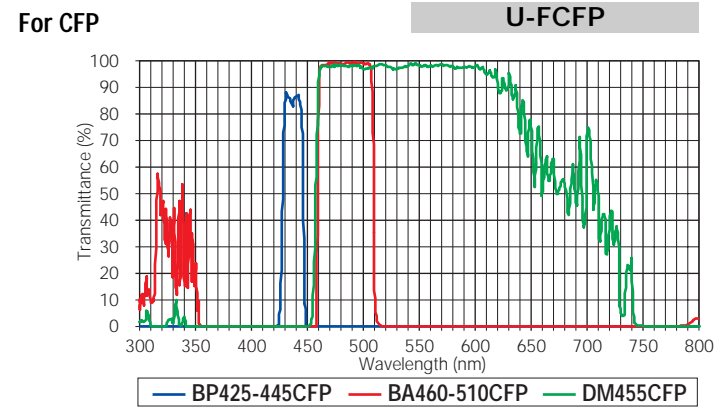


**Blue excitation**

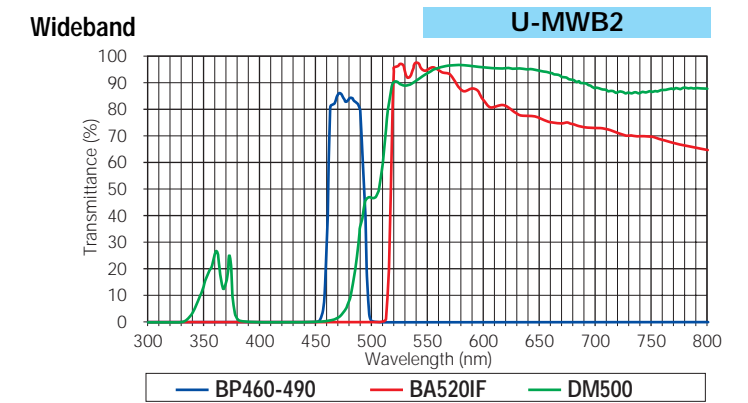
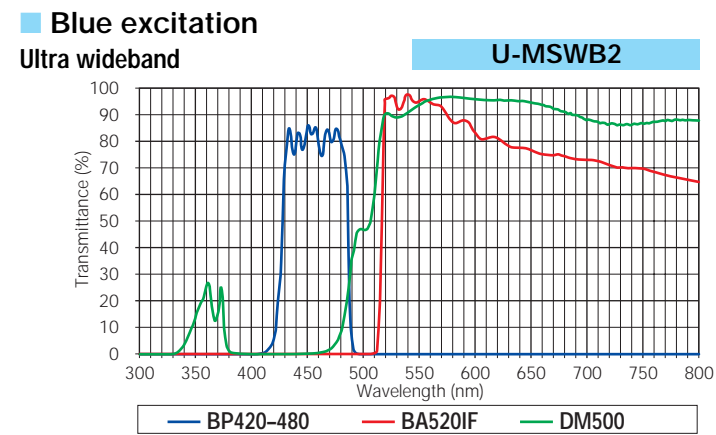
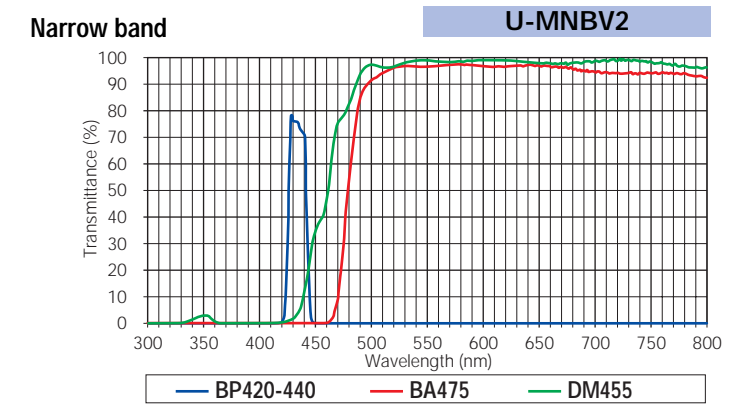
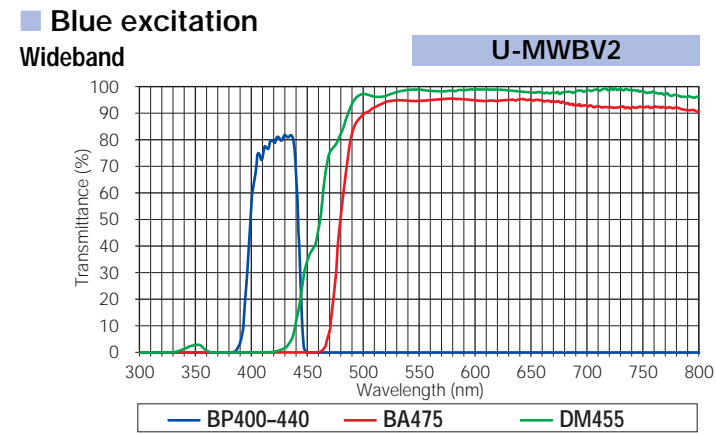
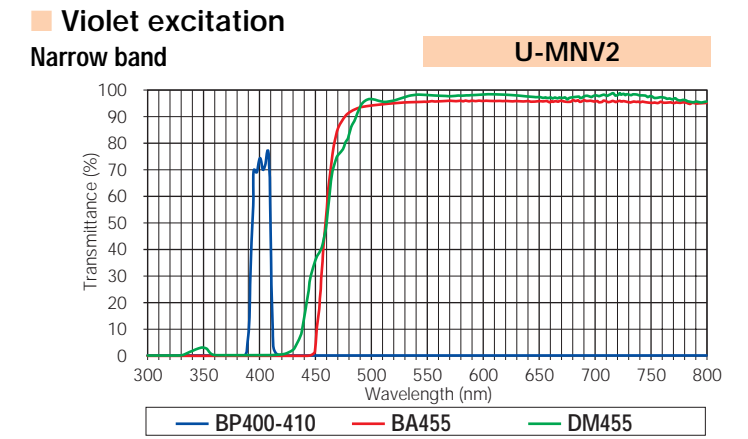
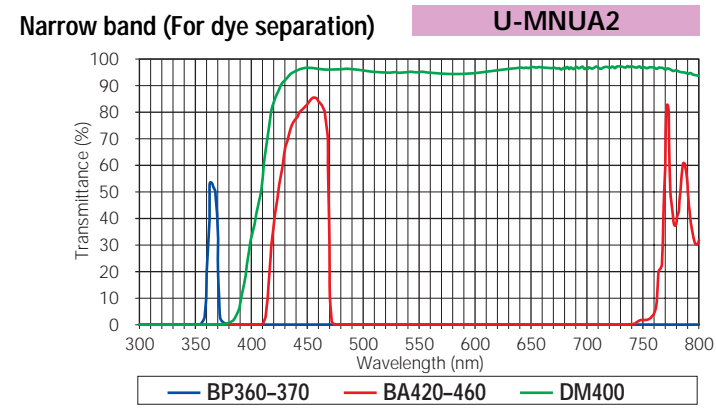
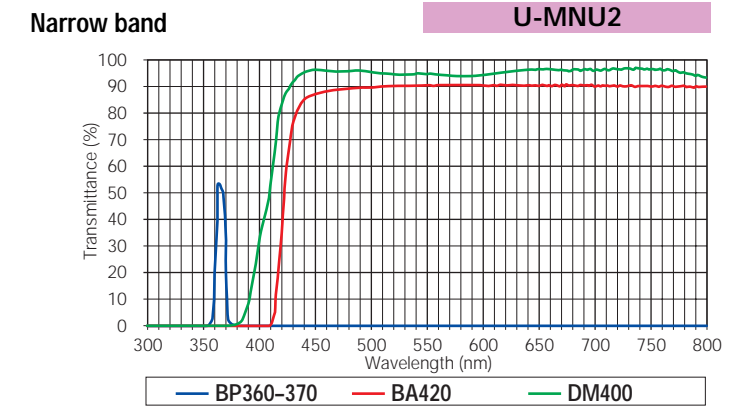
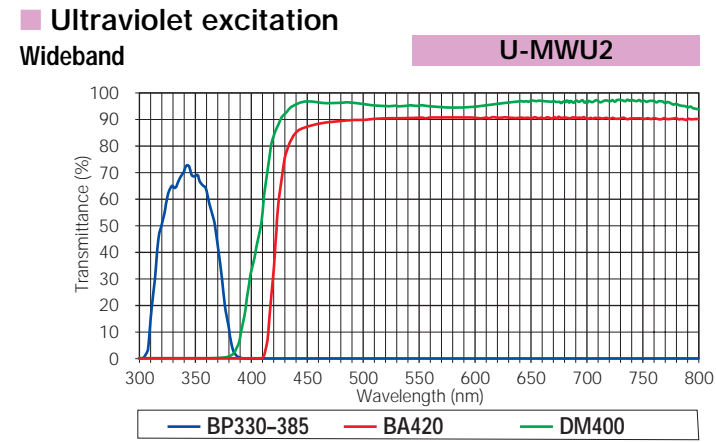


**Yellow excitation**





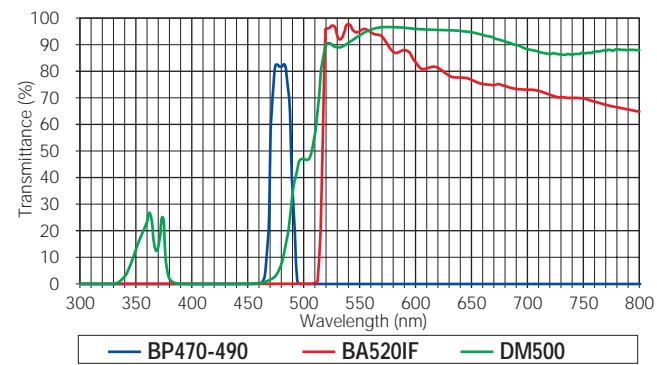
● Requires U-FF empty mirror unit.  
● Made-to-order product.



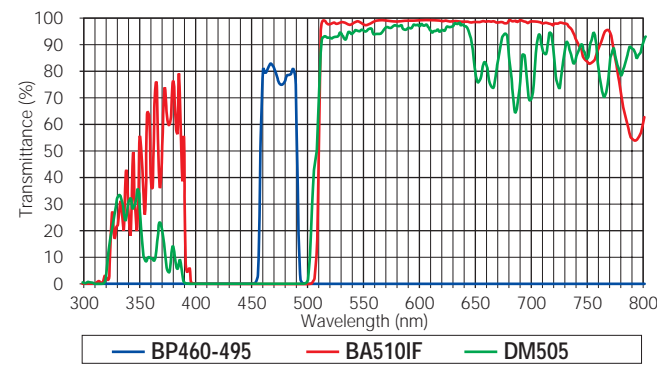
— BP: Excitation filter — BA: Emission filter — DM: Dichromatic mirror

**Blue excitation**

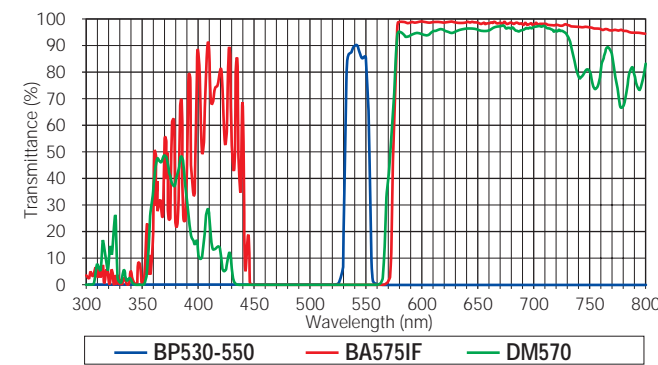
**Narrow band U-MNB2**



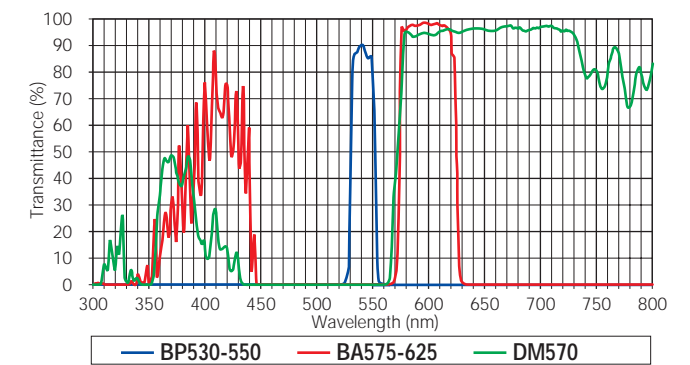
**Wideband (Interference filter type) U-MWIB3**



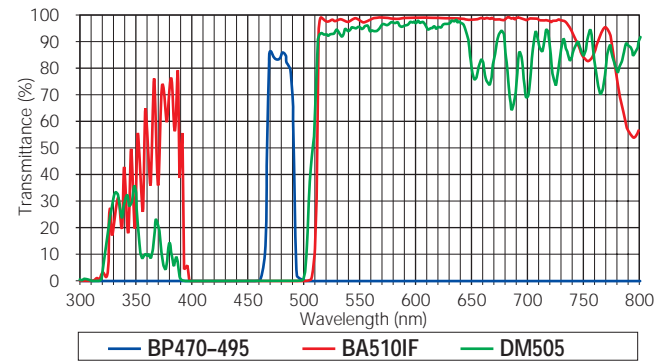
**Wideband U-MWIG3**



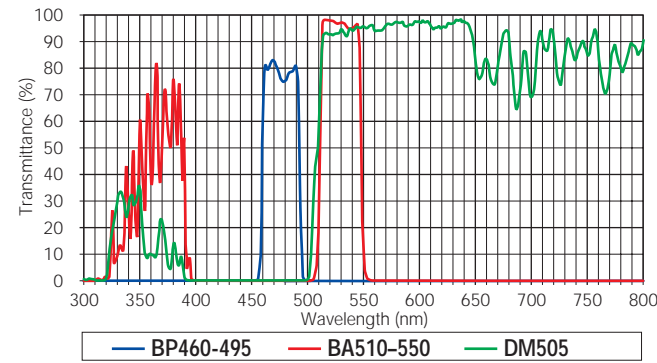
**Wideband (Bandpass filter, interference filter type) U-MWIGA3**



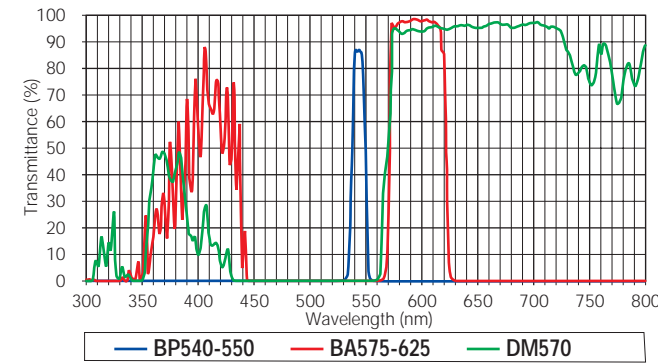
**Narrow band (Interference filter type) U-MNIB3**



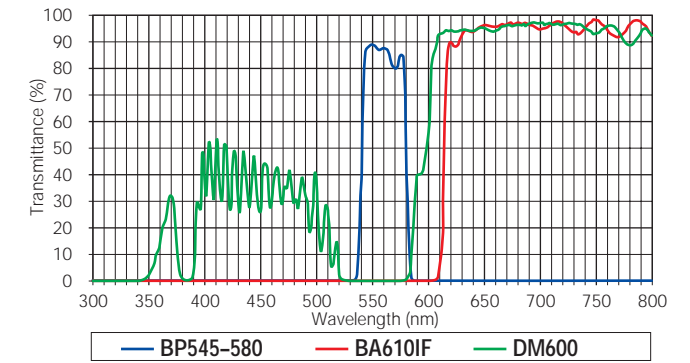
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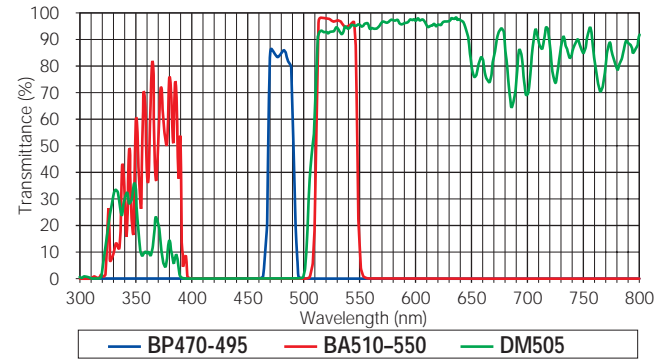
**Narrow band (Bandpass filter, interference filter type) U-MNIGA3**



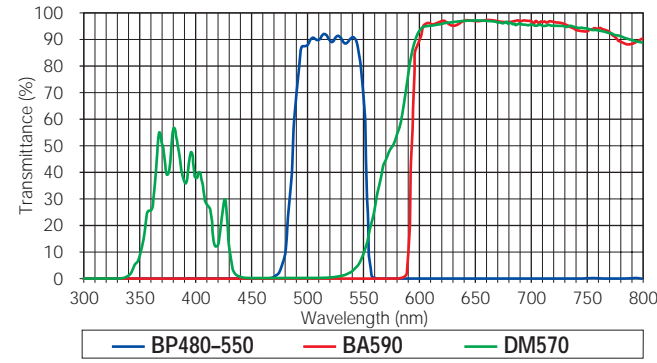
**Yellow excitation Wideband (Interference filter type) U-MWIY2**



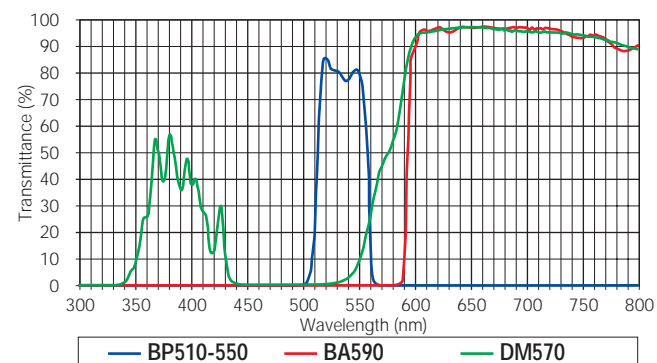
**Narrow band (Bandpass filter, interference filter type) U-MNIBA3**



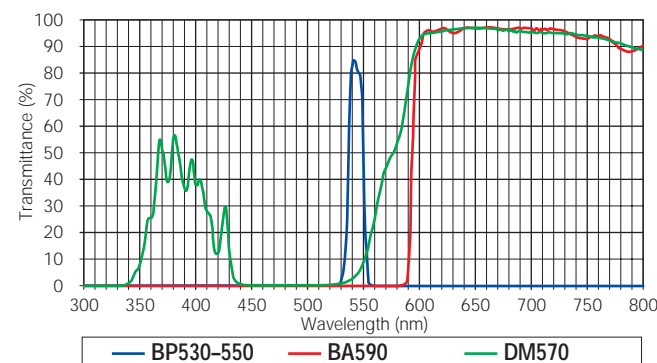
**Green excitation Ultra wideband U-MSWG2**



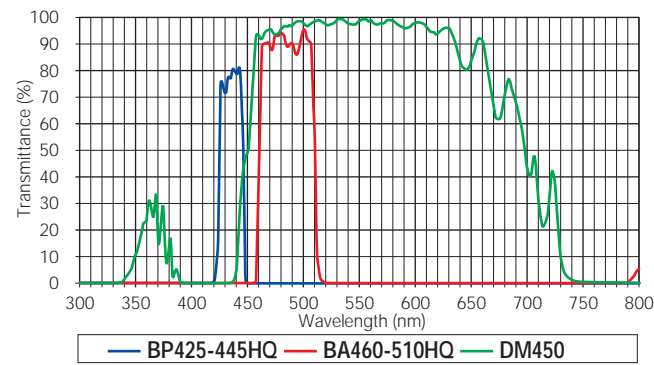
**Wideband U-MWG2**



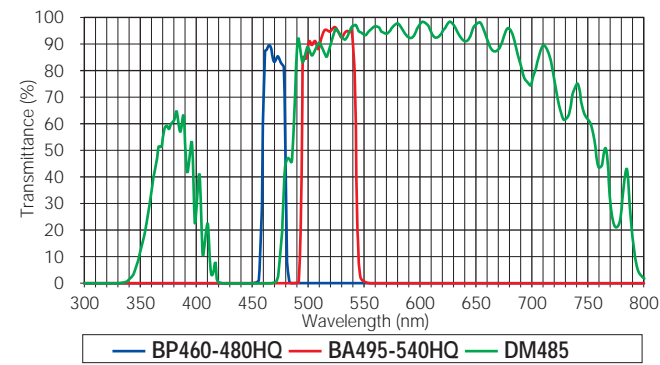
**Narrow band U-MNG2**



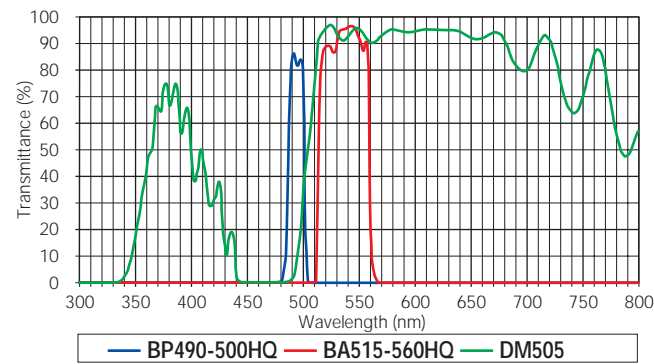
For CFP **U-MCFPHQ**



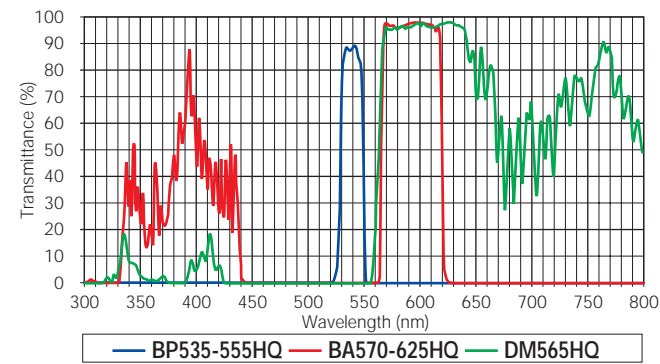
For GFP **U-MGFPHQ**



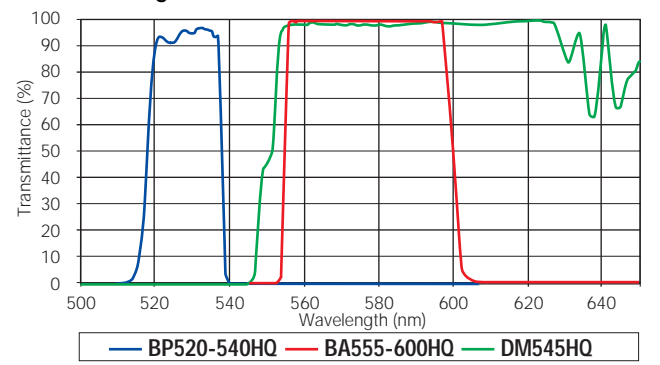
For YFP **U-MYFPHQ**



For RFP (DsRed) **U-MRFPHQ**



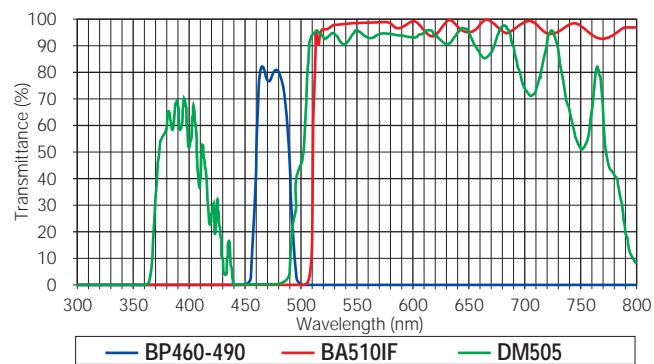
For Kusabira-Orange **FSET-KOHQ**



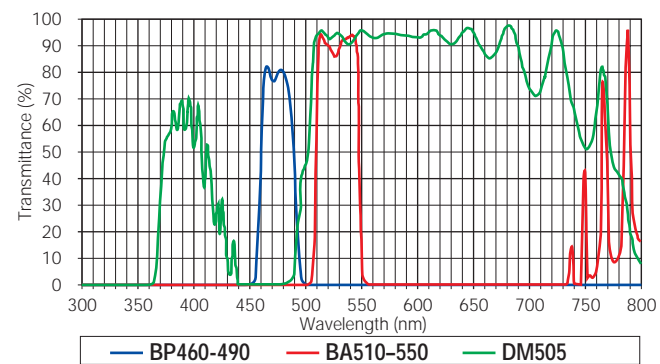
- Requires U-FF empty mirror unit.
- Made-to-order product.

■ Mirror Units Exclusively for BX2WI and MVX10

For GFP (long path filter) **U-MGFP/XL**



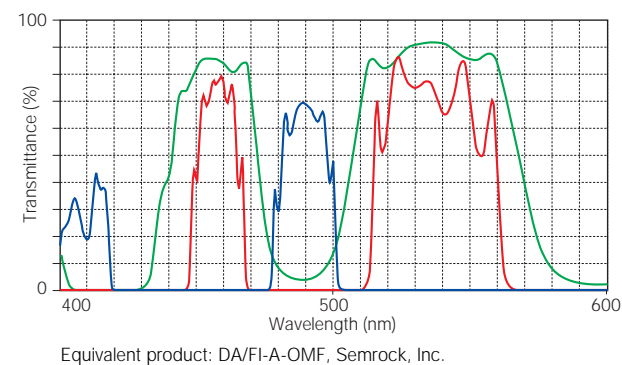
For GFP **U-MGFP/XL**



These two mirror units are required to optimize illumination when using the XLFLUOR4x or XLFLUOR2x and MVX objectives.

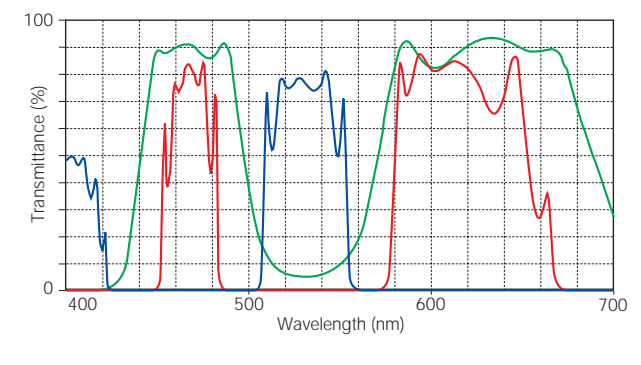
■ Dual Band Mirror Units

For DAPI/FITC **U-DM-DA/FI2**

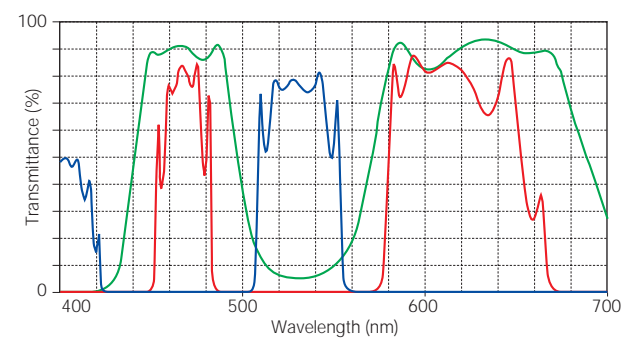


Equivalent product: DA/FI-A-OMF, Semrock, Inc.

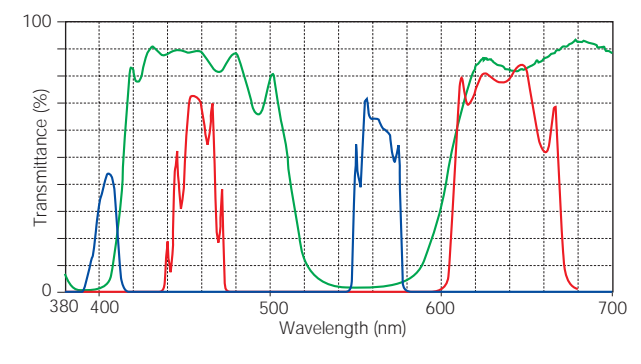
For DAPI/TRITC **U-DM-DA/TR2**



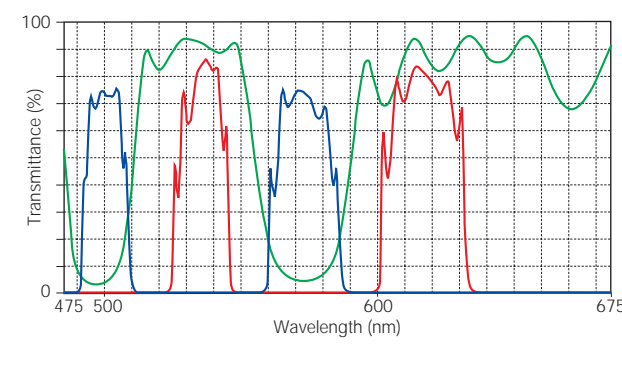
For DAPI/PI **U-DM-DA/PI2**



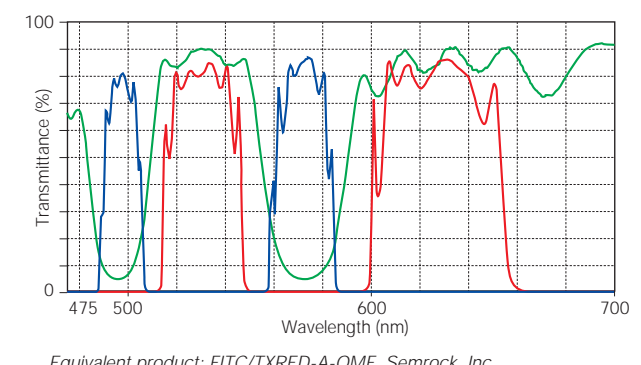
For DAPI/Texas Red **U-DM-DA/TX2**



For FITC/TRITC **U-DM-FI/TR2**

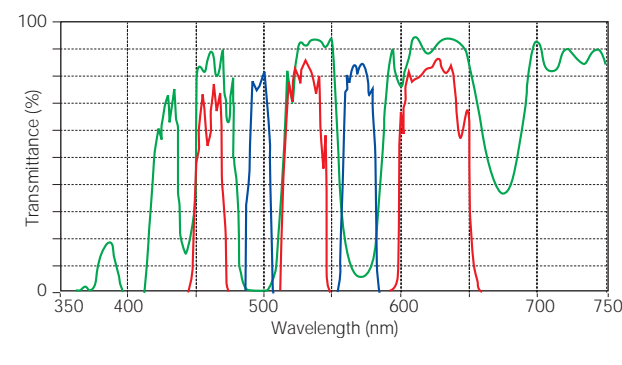


For FITC/Texas Red **U-DM-FI/TX2**



Equivalent product: FITC/TXRED-A-OMF, Semrock, Inc.

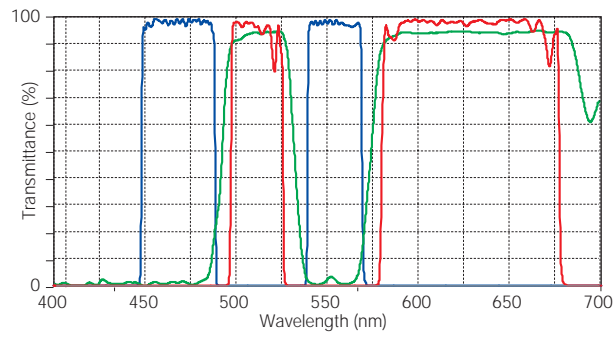
For FITC/PI **U-DM-FI/PI2**



**Dual Band Mirror Units**

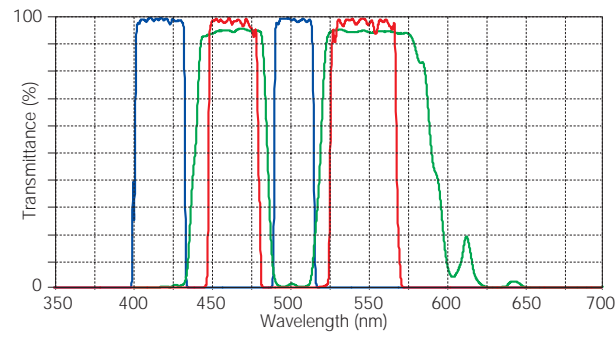
For GFP/DsRed

**U-DM-GFP/DsRed-3**



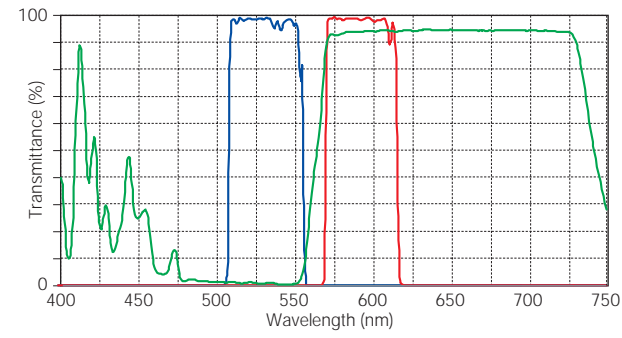
For CFP/YFP

**U-DM-CFP/YFP-3**



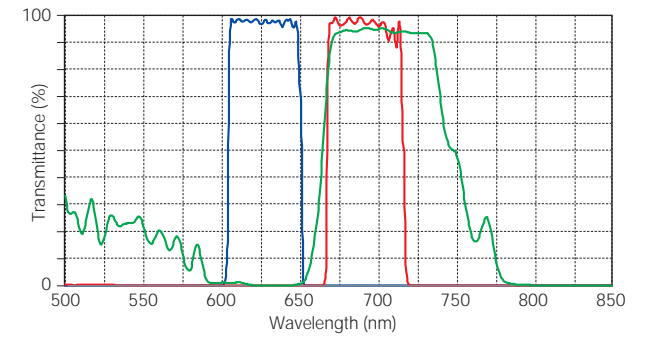
For Cy3

**U-DM-CY3-3**



For Cy5

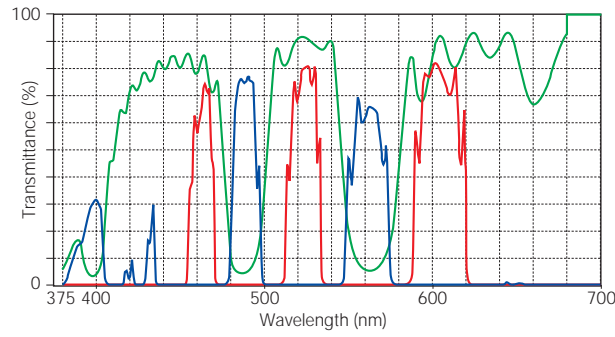
**U-DM-CY5-3**



**Triple Band Mirror Units**

For DAPI/FITC/TRITC

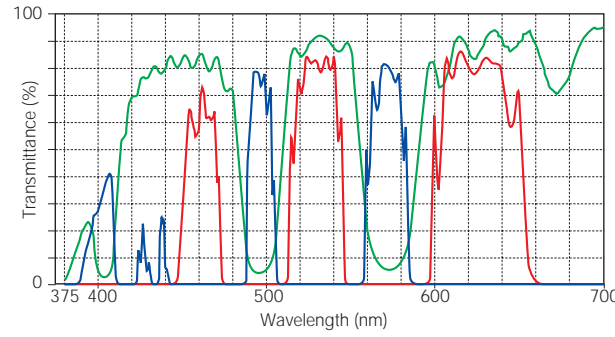
**U-DM-DA/FI/TR2**



Equivalent product: DA/FI/TR-A-OMF, Semrock, Inc.

For DAPI/FITC/Texas Red

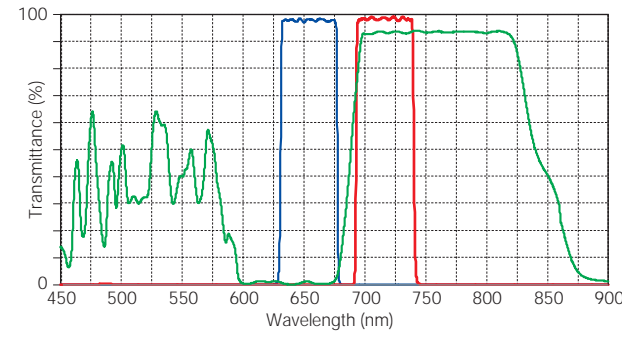
**U-DM-DA/FI/TX2**



Equivalent product: DA/FI/TX-B-OMF, Semrock, Inc.

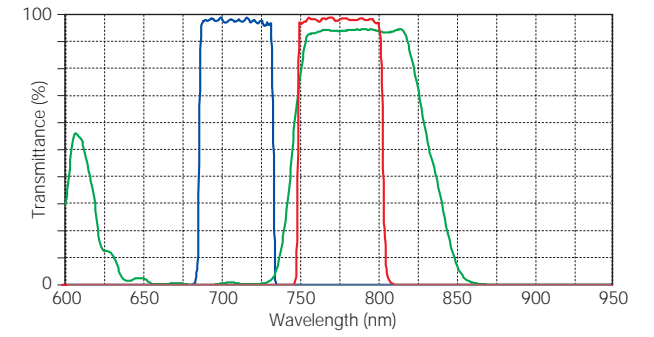
For Cy5.5

**U-DM-CY5.5-3**



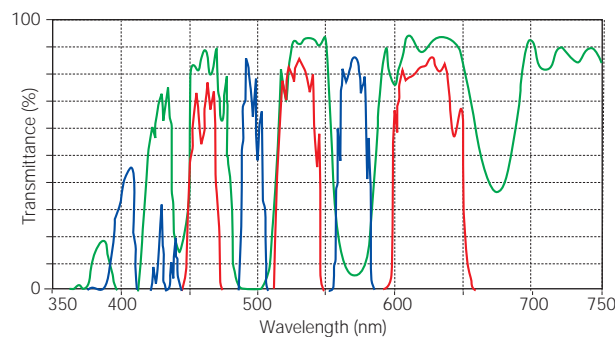
For Cy7

**U-DM-CY7-3**

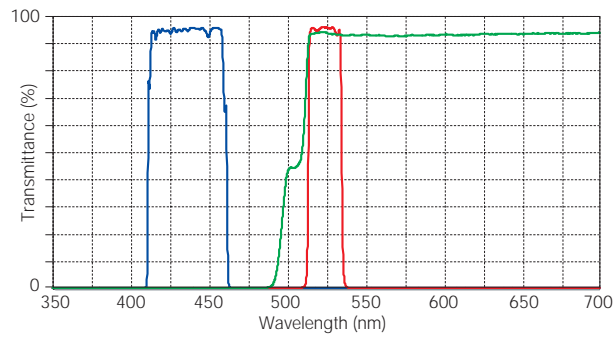


For DAPI/FITC/PI

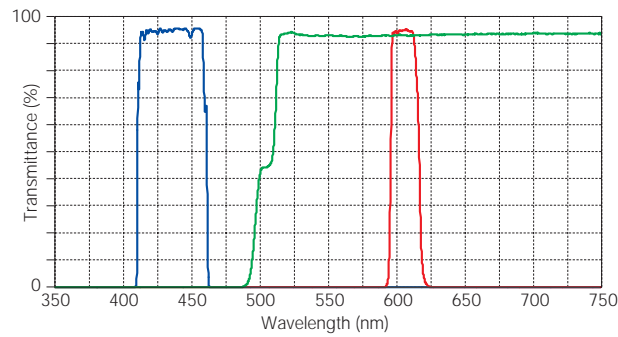
**U-DM-DA/FI/PI**



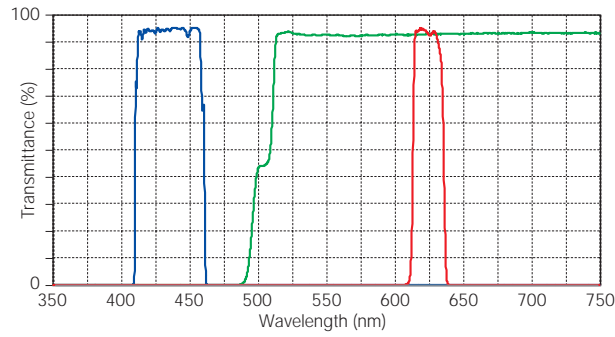
For Qdot525 U-DM-QD525-3



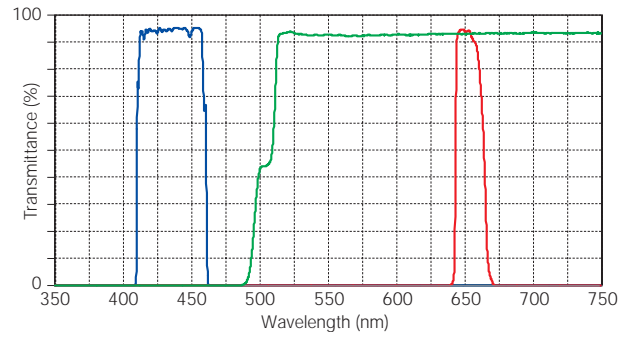
For Qdot605 U-DM-QD605-3



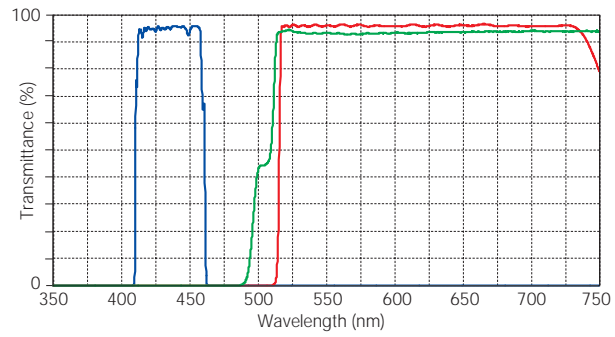
For Qdot625 U-DM-QD625-3



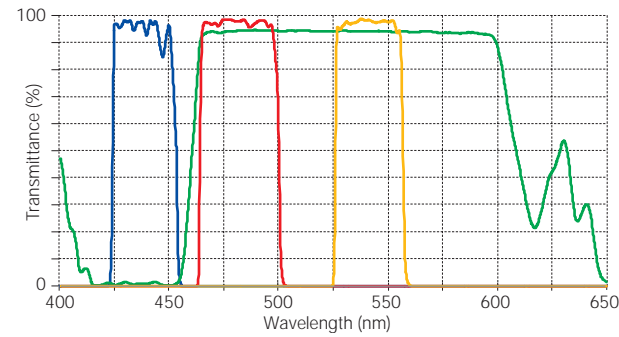
For Qdot655 U-DM-QD655-3



For Qdot525, 565, 585, 605, 625, 655, 705,800 U-DM-QDLP-3

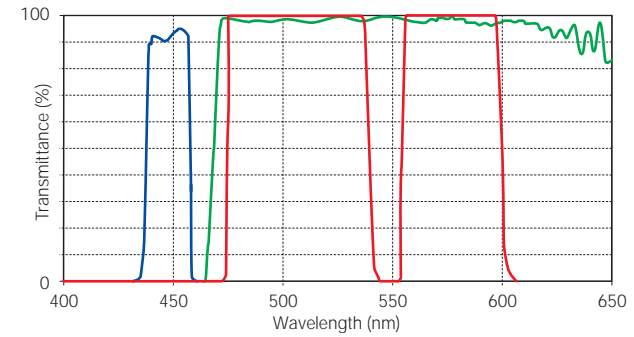


For CFP/YFP FRET U-DM-C/Y-FRET-3



- Requires a filter wheel for emission filter.
- Excitation filter and dichromatic mirror are incorporated with U-MF2 empty mirror unit.

For Kusabira Orange/MICY FRET FSET-KOMICYHQ



- Requires U-FF empty mirror unit.
- Made-to-order product.

— Excitation filter — Emission filter — Dichromatic mirror

■ Making an Optional Fluorescence Mirror Unit (Excitation filter/emission filter/dichromatic mirror)

Empty mirror unit

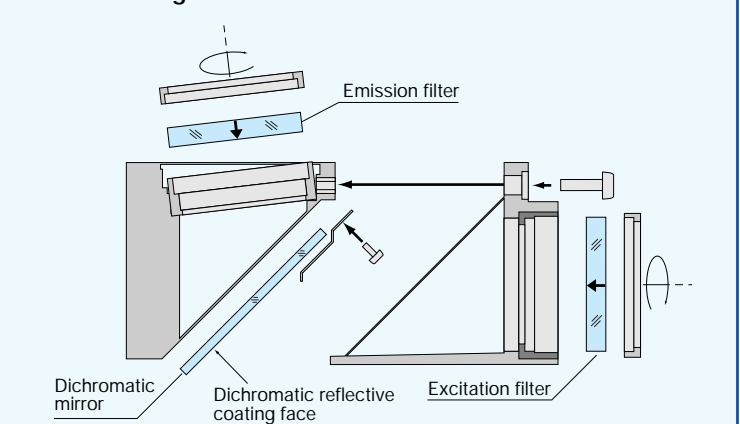
Custom fluorescence mirror units can be assembled by installing commercially available emission filters, excitation filters and dichromatic mirrors in the U-MF2 empty mirror unit frame.



■ Size requirement for optical parts

- Emission filter
- Excitation filter  $\phi 25_{-0.1}^{+0.1}$  mm, max. thickness 6 mm
- Dichromatic mirror  $26_{-0.1}^{+0.1} \times 38_{-0.1}^{+0.1}$  mm, thickness  $1 \pm 0.05$  mm

■ Assembling excitation filter and emission filter

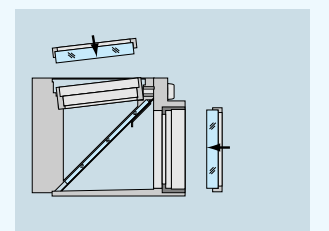


Assembling dichromatic mirror

Dichromatic reflective coating faces the exciter

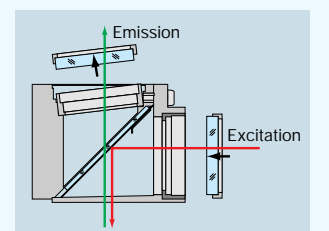
(1) Olympus filter set

\*Notice it is mounted to follow arrow pointing.



(2) Semrock filter set

\*Notice it is mounted to follow arrow pointing.



## Mirror Unit Selection Chart According to Fluorochrome Characteristics

Fluorochrome	Excitation maximum (nm)	Emission maximum (nm)	Applicable BX3 mirror unit	Applicable BX2/IX2/BX2WI/MVX10 mirror unit
<b>Fluorescent protein variants</b>				
AmCyan	458	489	U-FCFP, U-FBVW	U-MWBV2, U-MNBV2, U-MCFPHQ
Azami-Green	492	505	U-FBWA, U-FBNA, U-FGFP, U-FBW	U-MWIB3, U-MWIBA3, U-MNIBA3, U-MGFPHQ
DsRed2	563	582	U-FRFP	U-MRFPHQ
EBFP	380	440	U-FUNA, U-FUW, U-FUN,	U-MWU2, U-MNU2
ECFP	433	475	U-FCFP, U-FBVW	U-MCFPHQ, U-MWBV2, U-MNBV2
EGFP	488	507	U-FBWA, U-FBNA, U-FGFP, U-FBW, U-FBN	U-MGFPHQ, U-MNIB3, U-MWIBA3, U-MWIB3, U-MNIBA3
EYFP	513	527	U-FBWA, U-FBNA, U-FYFP, U-FBW, U-FBN	U-MYFPHQ, U-MWIBA3, U-MNIBA3, U-MWIBA3, U-MNIBA3
GFP (S65T)	488	510	U-FBWA, U-FBNA, U-FGFP, U-FBW, U-FBN	U-MGFPHQ, U-MWIBA3, U-MNIBA3, U-MWIB3, U-MNIB3
GFP (WT)	395, 475	510	U-FBWA, U-FBNA, U-FGFP, U-FBW, U-FBN	U-MWIBA3, U-MNIBA3, U-MGFPHQ, U-MWIB3, U-MNIB
HcRed	588	618	U-FYW	U-MWIY2
Kusabira-Orange	548	559	FSET-KOHQ (made-to-order product)	
Midoriishi-Cyan	472	495	U-FBWA, U-FBNA	U-MWIBA3, U-MNIBA3
mCherry	580	610	U-FMCHE, U-FYW	U-MWIY2
mRFP	584	607	U-FYW	U-MWIY2
mStrawberry	574	596	U-FMCHE, U-FYW	U-MWIY2
RFP (DsRed)	558	583	U-FRFP, U-FGW, U-FYW	U-MRFPHQ, U-MWIG3, U-MWIY2
Venus	515	528	U-FYFP	U-MYFPHQ
ZsGreen	493	505	U-FBWA, U-FBNA, U-FGFP	U-MWIBA3, U-MNIBA3, U-MGFPHQ
ZsYellow	529	539	U-FYFP	U-MYFPHQ
<b>Photoactivation</b>				
PA-GFP	504	517	U-FGFP	U-MGFPHQ

Fluorochrome	Excitation maximum (nm)	Emission maximum (nm)	Applicable BX3 mirror unit	Applicable BX2/IX2/BX2WI/MVX10 mirror unit
<b>Carbohydrate modification, protein modification (labeling)</b>				
<b>Fluorochrome antibody labeling</b>				
Alexa Fluor 350	346	442	U-FUNA, U-FUW, U-FUN	U-MNUA2, U-MWU2, U-MNU2
Alexa Fluor 405	401	421	U-FUNA, U-FUW, U-FUN	U-MNUA2, U-MWU2, U-MNU2
Alexa Fluor 430	431	541	U-FBVW	U-MWBV2, U-MNBV2
Alexa Fluor 488	495	519	U-FBWA, U-FBNA, U-FBW, U-FBN,	U-MWIBA3, U-MNIBA3, U-MWIB3, U-MNIB3
Alexa Fluor 532	531	554	U-FBWA, U-FBNA, U-FBW, U-FBN	U-MWIBA3, U-MNIBA3, U-MWIB3, U-MNIB3
Alexa Fluor 546	556	573	U-FGW	U-MWIG3
Alexa Fluor 555	555	567	U-FGW	U-MWIG3
Alexa Fluor 568	578	603	U-FGW	U-MWG2, U-MNG2, U-MWIG3
Alexa Fluor 594	590	617	U-FYW	U-MWIY2
Alexa Fluor 633	632	650		U-DM-CY5-3
Alexa Fluor 647	647	670		U-DM-CY5-3
Alexa Fluor 680	679	702		U-DM-CY5.5-3
Alexa Fluor 700	696	719		U-DM-CY5.5-3
Alexa Fluor 750	752	779		U-DM-CY7-3
Allophycocyanin (APC)	650	660	U-FYW	U-MWIY2
7-amino-4-methylcoumarin-3-acetic acid (AMCA)	350	450	U-FUNA, U-FUW, U-FUN	U-MNUA2, U-MWU2, U-MNU2
BODIPY FL	503	512	U-FBWA, U-FBNA	U-MWIBA3, U-MNIBA3
Cascade Blue	376	425	U-FUNA, U-FUW, U-FUN	U-MNUA2, U-MWU2, U-MNU2
Fluorescein-isothiocyanate (FITC)	490	520	U-FBWA, U-FBNA, U-FBN	U-MWIBA3, U-MNIBA3, U-MWB2, U-MNB2, U-MWIB3, U-MNIB3
Oregon Green 488	496	520	U-FBWA, U-FBNA, U-FBN	U-MWIBA3, U-MNIBA3, U-MWB2, U-MNB2, U-MWIB3, U-MNIB3
Phycoerythrin B (PE-B)	545	576	U-FGW	U-MWG2, U-MNG2, U-MWIG3
Phycoerythrin R (PE-R)	490, 565	578	U-FGW	U-MWG2, U-MNG2, U-MWIG3
Rhodamine B-isothiocyanate (RITC)	570	595	U-FGW	U-MWG2, U-MNG2, U-MWIG3
Texas Red	596	620	U-FYW	U-MWIY2
Tetramethylrhodamine-isothiocyanate (TRITC)	541	572	U-FGW	U-MWIG3



Fluorochrome	Excitation maximum (nm)	Emission maximum (nm)	Applicable BX3 mirror unit	Applicable BX2/IX2/BX2WI/MVX10 mirror unit
<b>Protein modification</b>				
8-Anilino-1-naphthalene sulfonic acid Mg salt (ANS)	385	485	U-FUW, U-FUN, U-FVN, U-FBVW	U-MWU2, U-MNU2, U-MNV2, U-MWBV2
Coumarin maleimide (CPM)	385	465	U-FUW, U-FUN	U-MWU2, U-MNU2
Cy2	489	506	U-FBWA, U-FBNA, U-FBW, U-FBN	U-MWIBA3, U-MNIBA3, U-MWIB3, U-MNIB3
Cy3	552	565	U-FGW	U-DM-CY3-3, U-MWIG3
Cy3.5	581	596	U-FYW	U-MWIY2
Cy5	650	667		U-DM-CY5-3
Cy5.5	675	694		U-DM-CY5.5-3
Cy7	743	767		U-DM-CY7-3
Dimethylaminonaphthalene-5-sulfonic acid (DANS)	380	520	U-FUW, U-FUN	U-MWU2, U-MNU2
Dansyl chloraide	335	500	U-FUW, U-FUN	U-MWU2, U-MNU2
Dansyl hydrazine	336	531	U-FUW, U-FUN	U-MWU2, U-MNU2
Eosin-isothiocyanate	524	548	U-FBWA, U-FBNA, U-FBW, U-FBN	U-MWIBA3, U-MNIBA3, U-MWIB3, U-MNIB3
Fluorescamine	390	460	U-FUW, U-FUN, U-FVN,	U-MWU2, U-MNU2, U-MNV2
FluorX	494	520	U-FBWA, U-FBNA, U-FBW, U-FBN	U-MWIBA3, U-MNIBA3, U-MWIB3, U-MNIB3
Lucifer Yellow CH	435	530	U-FBVW, U-FBW	U-MWBV2, U-MNBV2, U-MWB2, U-MSWB2
Monochlorobimane	380	461	U-FUNA, U-FUW, U-FUN	U-MNUA2, U-MWU2, U-MNU2
o-Phtalaldehyde (OPT)	340	455	U-FUNA, U-FUW, U-FUN	U-MNUA2, U-MWU2, U-MNU2
Resorufin	570	585	U-FGW	U-MWG2, U-MNG2, U-MWIG3
SITS	350	420	U-FUNA, U-FUW, U-FUN	U-MNUA2, U-MWU2, U-MNU2
<b>Carbohydrate modification</b>				
Acridine SO2-PAS	430	515	U-FBVW	U-MWBV2, U-MNBV2
<b>Quantum dot</b>				
Qdot 525	Excitation wavelengths 350-488 nm recommended	525		U-DM-QD525-3
Qdot 605	Excitation wavelengths 350-488 nm recommended	605		U-DM-QD605-3
Qdot 625	Excitation wavelengths 350-488 nm	625		U-DM-QD625-3
Qdot 655	Excitation wavelengths 350-488 nm recommended	655		U-DM-QD655-3
Qdot 525,565,585,605,625,655,705,805	Excitation wavelengths 350-488 nm recommended	—		U-DM-QDLP-3

Fluorochrome	Excitation maximum (nm)	Emission maximum (nm)	Applicable BX3 mirror unit	Applicable BX2/IX2/BX2WI/MVX10 mirror unit
<b>Nuclei, nucleic acid staining</b>				
<b>Nuclei, nucleic acid</b>				
Acridine Orange	490	530, 640	U-FBN	U-MWB2, U-MNB2, U-MWIB3, U-MNIB3
Acridine Yellow	470	550	U-FBN	U-MWB2, U-MNB2, U-MWIB3, U-MNIB3
Acridine-Feulgen	430	515	U-FBVW	U-MWBV2, U-MNBV2
Auramine O-Feulgen	460	550	U-FBN	U-MWB2, U-MNB2, U-MWIB3, U-MNIB3
7-Amino Actinomycin D	555	655	U-FYW, U-FGW	U-MWIY2, U-MWIG3
bis-Aminophenyl-oxadizole (BAO) -Feulgen	380	470	U-FUNA, U-FUW, U-FUN	U-MNUA2, U-MWU2, U-MNU2
BOBO 1	462	481	U-FBVW, U-FBW,	U-MWBV2, U-MNBV2, U-MSWB2, U-MWB2, U-MWIB3
BO PRO 1	462	481	U-FBVW, U-FBW	U-MWBV2, U-MNBV2, U-MSWB2, U-MWB2, U-MWIB3
Chromomycin A3	450	570	U-FBN	U-MWB2, U-MNB2, U-MWIB3, U-MNIB3
4, 6-diamidino-2-phenyl-indole HCl (DAPI)	372	456	U-FUNA, U-FUW, U-FUN	U-MNUA2, U-MWU2, U-MNU2
Ethidium Bromide	545	605	U-FGW	U-MWG2, U-MNG2, U-MWIG3
Hoechst 33258	365	465	U-FUNA, U-FUW, U-FUN	U-MNUA2, U-MWU2, U-MNU2
Hoechst 33342	355	465	U-FUNA, U-FUW, U-FUN	U-MNUA2, U-MWU2, U-MNU2
Mithramycin	395	570	U-FBVW	U-MWBV2, U-MNBV2
Olivomycin	430	545	U-FBVW	U-MWBV2, U-MNBV2
Pararosaniline-Feulgen	560	625	U-FGW	U-MWG2, U-MNG2, U-MWIG3
POPO 1	434	456	U-FBVW	U-MWBV2, U-MNBV2
Propidium Iodide (PI)	530	615	U-FGW	U-MWG2, U-MNG2, U-MSWG2, U-MWIG3
Pyronin Y	540	570	U-FGW	U-MWIG3
Quinacrine Mustard	385	525	U-FBVW	U-MWBV2, U-MNBV2
SYTOX Green nucleic acid stain	504	523	U-FBWA, U-FBNA	U-MWIBA3, U-MNIBA3
Thiazole Orange	509	533	U-FBW, U-FBN	U-MWB2, U-MNB2
TOTO 1	514	533	U-FBW, U-FBN	U-MWB2, U-MNB2
YO PRO 1	491	509	U-FBWA, U-FBNA, U-FBN, U-FBW	U-MWIBA3, U-MNIBA3, U-MWIB3, U-MNIB3
YOYO 1	490	510	U-FBWA, U-FBNA, U-FBN, U-FBW	U-MWIBA3, U-MNIBA3, U-MWIB3, U-MNIB3
<b>Cell viability judgement</b>				
<b>Living cell staining</b>				
Acridine Orange	490	590	U-FBN	U-MWB2, U-MNB2, U-MNIB3, U-MSWB2
BCECF/AM	500	530	U-FBWA, U-FBNA, U-FBW, U-FBN	U-MWIBA3, U-MNIBA3, U-MWIB3, U-MNIB3
Calcein/AM	495	520	U-FBWA, U-FBNA, U-FBW, U-FBN	U-MWIBA3, U-MNIBA3, U-MWIB3, U-MNIB3
Carboxyfluorescein diacetate (CFDA)	495	520	U-FBWA, U-FBNA, U-FBW, U-FBN	U-MWIBA3, U-MNIBA3, U-MWIB3, U-MNIB3
Fluorescein diacetate (FDA)	495	520	U-FBWA, U-FBNA, U-FBW, U-FBN	U-MWIBA3, U-MNIBA3, U-MWIB3, U-MNIB3
<b>Dead cell staining</b>				
Ethidium Bromide	545	605	U-FGW	U-MWG2, U-MNG2, U-MWIG3
Ethidium homodimer-1	528	617	U-FGW	U-MWG2, U-MNG2, U-MWIG3
Propidium Iodide (PI)	530	615	U-FGW	U-MWG2, U-MNG2, U-MWIG3, U-MSWG2

Fluorochrome	Excitation maximum (nm)	Emission maximum (nm)	Applicable BX3 mirror unit	Applicable BX2/IX2/BX2WI/MVX10 mirror unit
<b>Membranes, organelle</b>				
<b>Membranes</b>				
8-Anilino-naphthalene sulfonic acid (ANS)	385	485	U-FVN	U-MNV2
Dil	550	565	U-FGW	U-MWG2, U-MNG2, U-MWIG3
DIO	484	501	U-FBN	U-MWB2, U-MNB2, U-MWIB3, U-MNIB3
Diphenylhexatriene (DPH)	351	430	U-FUNA, U-FUW, U-FUN	U-MNUA2, U-MWU2, U-MNU2
Filipin	350	—	U-FUW, U-FUN	U-MWU2, U-MNU2
Fluorescamine	390	460	U-FUW, U-FUN, U-FVN	U-MWU2, U-MNU2, U-MNV2
Merocyanine 540	500	572	U-FGW	U-MWG2, U-MNG2, U-MWIG3
<b>Organelle</b>				
Acridine Orange	490	590	U-FBN	U-MWB2, U-MNB2, U-MWIB3, U-MNIB3
BODIPY FL Ceramide	503	512	U-FBW, U-FBN	U-MWIB3, U-MNIB3
DIO C6(3)	480	501	U-FBW, U-FBN	U-MWIB3, U-MNIB3
ERTracker Blue-White DPX	374	575	U-FUW, U-FUN, U-FVN	U-MWU2, U-MNU2, U-MNV2
JC-1	514	529	U-FBW	U-MWIB3
LysoTracker Red DND-99	577	590	U-FGW, U-FYW	U-MWIG3, U-MWIY2
MitoFluor Green	489	517	U-FBW, U-FBN	U-MWIB3, U-MNIB3
MitoTracker Red CMXRos	578	599	U-FGW, U-FYW	U-MWIG3, U-MWIY2
Nile Red	485-530	525-605	U-FBN	U-MWB2, U-MNB2, U-MWIB3, U-MNIB3
Rhodamine 123	500	540	U-FBWA, U-FBW, U-FBN	U-MWIBA3, U-MWIB3, U-MNIB3
Pyronin Y	540	570	U-FGW	U-MWIG3
<b>Bacteria staining, bone staining</b>				
<b>Bacteria</b>				
Acridine Orange	490	530, 640	U-FBN	U-MWB2, U-MNB2, U-MWIB3, U-MNIB3
Acridine Yellow	470	550	U-FBN	U-MWB2, U-MNB2, U-MWIB3, U-MNIB3
Auramine O	460	550	U-FBN	U-MWB2, U-MNB2, U-MWIB3, U-MNIB3
Berberine sulfate	430	550	U-FBVW	U-MWVB2, U-MNBV2
Coriphosphine O	460	575	U-FBN	U-MWB2, U-MNB2, U-MWIB3, U-MNIB3
CTC	450	630	U-FBW	U-MWB2, U-MWIB3
Hoechst 33258	365	465	U-FUNA, U-FUW, U-FUN	U-MNUA2, U-MWU2, U-MNU2
<b>Bone</b>				
Acidic Fuchsin (Pararosaniline)	540	630	U-FGW	U-MWG2, U-MNG2, U-MWIG3
Calcein	495	520	U-FBN	U-MWB2, U-MNB2, U-MWIB3, U-MNIB3
Calcein Blue	375	435	U-FUNA, U-FUW, U-FUN	U-MNUA2, U-MWU2, U-MNU2
Tetracycline	390	560	U-FUW, U-FBVW	U-MWU2, U-MWVB2, U-MNBV2
Xylenol Orange	440, 570	610	U-FGW	U-MWG2, U-MNG2, U-MWIG3

Fluorochrome	Excitation maximum (nm)	Emission maximum (nm)	Applicable BX3 mirror unit	Applicable BX2/IX2/BX2WI/MVX10 mirror unit
<b>Ion concentrations</b>				
<b>Calcium</b>				
Calcium Green	505	532	U-FBNA	U-MNIBA3
Fluo 4	485	503	U-FBNA	U-MNIBA3
Yellow Cameleon 3.1	440	480/535		U-DM-C/Y-FRET-3
<b>Nerve cell tracer, others</b>				
<b>Nerve cell tracer</b>				
Evans Blue	550	610	U-FGW	U-MWG2, U-MNG2, U-MWIG3
Fast Blue	360	410	U-FUNA, U-FUW, U-FUN	U-MNUA2, U-MWU2, U-MNU2
Granular Blue	375	410	U-FUNA, U-FUW, U-FUN	U-MNUA2, U-MWU2, U-MNU2
True Blue	373	404	U-FUNA, U-FUW, U-FUN	U-MNUA2, U-MWU2, U-MNU2
<b>Others</b>				
Aniline blue	370	509	U-FUNA, U-FUW, U-FUN	U-MNUA2, U-MWU2, U-MNU2
Alexa Fluor 488-Phalloidin	495	519	U-FBWA, U-FBNA, U-FBW, U-FBN	U-MWIBA3, U-MNIBA3, U-MWIB3, U-MNIB3
Calcofluor white	440	500-520	U-FUW, U-FUN, U-FVN	U-MWU2, U-MNU2, U-MNV2
Euchrysin (Acridine Orange)	430	540	U-FUNA, U-FUW, U-FUN	U-MNUA2, U-MWU2, U-MNU2
NanoOrange	485	590	U-FGW	U-MWIG3, U-MWG2
NBD-Phalloidin	465	530	U-FBWA, U-FBNA, U-FBW, U-FBN	U-MWIBA3, U-MNIBA3, U-MWIB3, U-MNIB3
Rhodamine-Phalloidin	550	580	U-FGWA, U-FGNA, U-FGW	U-MWIGA3, U-MNIGA3, U-MWG2, U-MNG2, U-MSWG2, U-MWIG3
Spectrum Aqua	433	480	U-FBVW	U-MWVB2, U-MNBV2
Spectrum Gold	530	555	U-FGW	U-MWG2
Spectrum Green	497	538	U-FBW	U-MWIB3
Spectrum Orange	559	588	U-FGW	U-MWG2, U-MNG2, U-MWIG3
Spectrum Red	587	612	U-FYW	U-MWIY2
sulforhodamine 101	586	605	U-FYW	U-MWIY2
Thioflavin T	430	550	U-FBVW	U-MWVB2, U-MNBV2
ZyGreen	503	528	U-FBWA, U-FBNA, U-FBN, U-FBW	U-MWIBA3, U-MNIBA3, U-MWB2, U-MNB2, U-MWIB3, U-MNIB3
ZyGold	532	553	U-FGW	U-MWG2
ZyOrange	547	572	U-FGW	U-MWG2
ZyRed	580	599	U-FYW	U-MWIY2