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1CCD CAMERA COUPLERS / DIP SERIES

Direct Image Projection for C-Mount & Bayonet Mount Cameras

Benefits of the Direct Image Projection System

High Quality
Produces crisp, flat field images with all microscope objectives including apochromats, plan fluorites, and achromats.

Economical
Price range 13%-250% lower than major manufacturers' couplers.

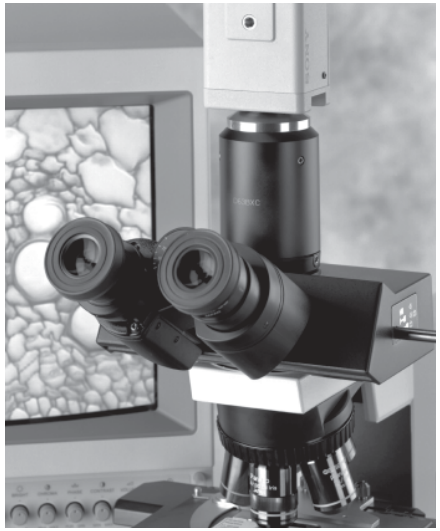
Low Profile
Positions camera CCD chip at the intermediate image plane, closer to microscope for greater stability, convenience, and aesthetics.

Parfocal
Precise machining provides parfocality between the microscope and the TV monitor (see Appendix 4 on "Parfocalizing").

Wide Field of View
0.50x (for 1/2"CCD) and 0.63x (for 2/3"CCD) provide wider field of view on monitor.

Camera Mounts
C-Mount, Nikon F-Mount, Sony 1/2" ENG Mount and Non-Sony 1/2" ENG Mount.

Note: Older microscopes that use compensating optics may produce images with lateral chromatic abberation and spherical abberations uncorrected (see Appendix 4).



0.63x (D63BXC) to attach 2/3" CCD camera to Olympus BX

The System . . .



Direct Image Projection Concept
The camera CCD chip is positioned where the microscope intermediate image is located. This provides a low profile, stable and more compact system. The system is parfocal with proper microscope set-up. See Appendix 4 about "Parfocalizing" a microscope.

Camera Lens Mount
Choose from the large selection of C-mount and F-mount models.

Direct Image Projection Lens System
For a wider field of view, a 0.50x (for 1/2" CCD) and 0.63x (for 2/3" CCD) reduction lenses are available for all C-mount versions of the Direct Image Projection series. No-lens versions are also available which provide a 1.0x magnification.

No Bottom Clamp
The Direct Image Projection couplers are ordered as one part, specific for a range of microscopes. They do not utilize "Bottom Clamps" as the HR video coupler series does.

Selected Direct Image Projection Couplers for C-Mount Cameras



D10HCC, D63HCC, D50HCC
For Leica DMR, DMRD, DMLS, DMLB



D10NLC, D63NLC, D50NLC
For Nikon & Leica ISO 38mm Ports



D10BXC, D63BXC, D50BXC
For Olympus BX, AX & MX Series



D10ZNC, D63ZNC, D50ZNC
For Zeiss Axiolab, Axioplan-2, Axiophot-2, Axiotech & New Standard

Selected Direct Image Projection Couplers for Nikon F-Mount Cameras



D10HCF
For Leica DMR, DMRD, DMLS, DMLB



D10NEF
For Nikon Eclipse, E400, E600 Series
D10E8F
For Nikon Eclipse, E800, E100 Series



D10BXF
For Olympus BX, AX & MX Series



D10ZNF
For Zeiss Axiolab, Axioplan-2, Axiophot-2, Axiotech & New Standard

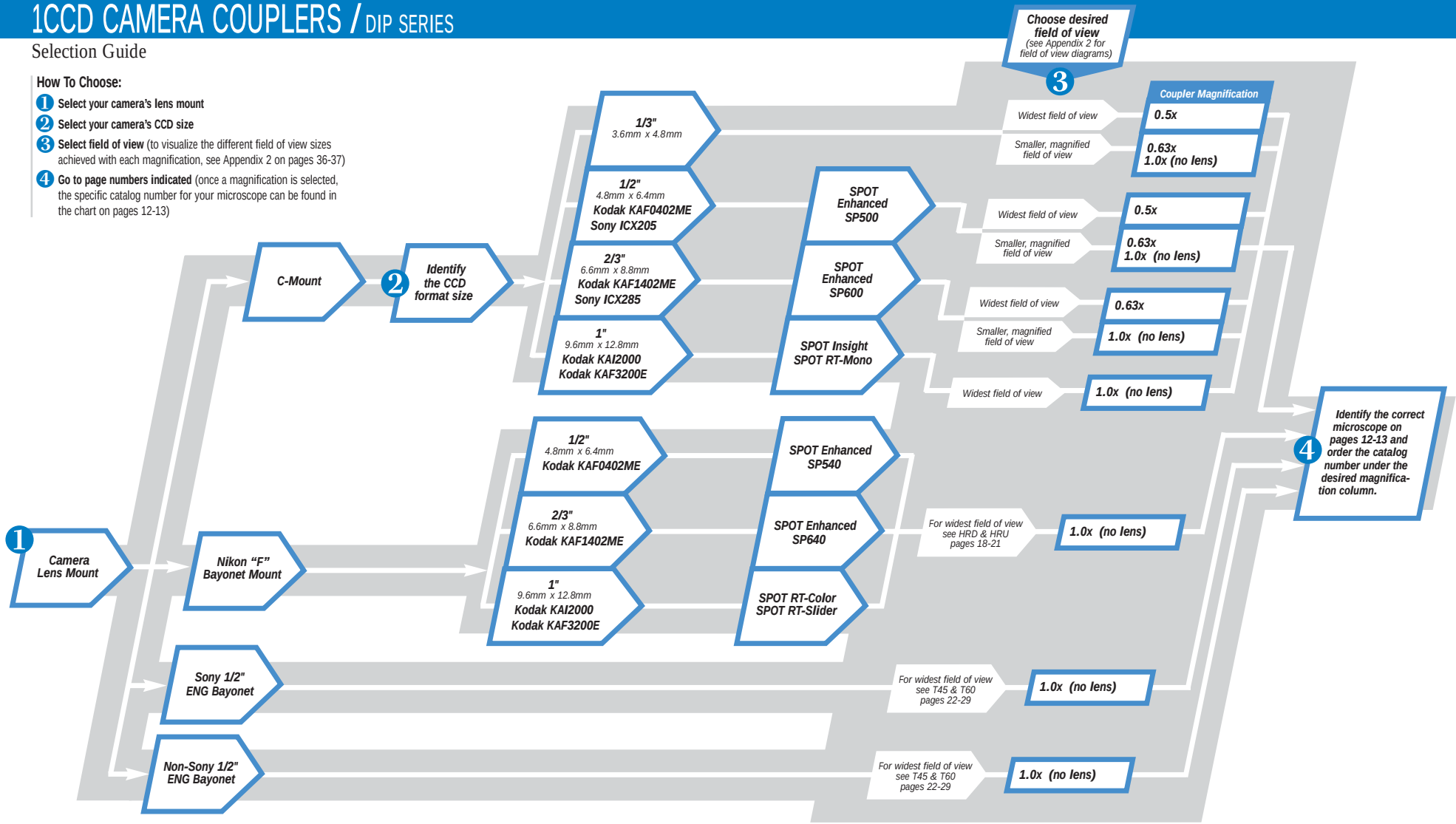
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1CCD CAMERA COUPLERS / DIP SERIES

Selection Guide

How To Choose:

1. **Select your camera's lens mount**
2. **Select your camera's CCD size**
3. **Select field of view** (to visualize the different field of view sizes achieved with each magnification, see Appendix 2 on pages 36-37)
4. **Go to page numbers indicated** (once a magnification is selected, the specific catalog number for your microscope can be found in the chart on pages 12-13)



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(with Y-T TV Tube, NOT YIDP phototube)

1CCD CAMERA COUPLERS / DIP SERIES

Selection Chart / For C-Mount, F-Mount,** Sony ½" ENG,** Non-Sony ½" ENG** (**1.0x only)

Coupler Selection Chart

❶ SELECT MAGNIFICATION ➤ / ❷ IDENTIFY MICROSCOPE ▼	C-MOUNT 0.50x For ⅔" & ⅓" CCD only	C-MOUNT 0.63x For ⅔" ½" & ⅓" CCD	C-MOUNT 1.0x (No Lens)	F-MOUNT 1.0x (No Lens w/ Adjustable Focus)
AMERICAN OPTICAL (LEICA)				
COMPOUND				
Diastar, Microstar IV	D50ADC	D63ADC	D10ADC	
Epistar	D50AMC	D63AMC	D10AMC	
Microstar 10, 110, 120	D50AMC	D63AMC	D10AMC	
BAUSCH & LOMB (LEICA)				
COMPOUND				
Balplan, Microzoom	D50BBC	D63BBC	D10BBC	
STEREO				
Stereozoom 6	D50BBC	D63BBC	D10BBC	
Stereozoom 7 (newer slip in port)	D50BSC	D63BSC	D10BSC	
LEICA (also see American Optical, Bausch & Lomb, Leitz, Reichert, Wild)				
COMPOUND				
DMR series, fits FSA tube adapter, Variotube and DMRD (does not fit photo TV module), DMLS clinical microscope, DMLB, DMRB, DMLP, DMC comparison microscope	N/A	N/A	D10DMC	
DMR HC series, fits onto HC tube adapter	D50HCC	D63HCC	D10HCC	D10HCF
INVERTED				
DMIL	D50NLC	D63NLC	D10NLC	
DMIRB	N/A	N/A	D10DMC	
DMIL, DMIRB with HC optics	D50HCC	D63HCC	D10HCC	D10HCF
STEREO				
MZ series 10 445 924 trinocular head (Adapter includes 10 445 924 style phototube)	D50LZC	D63LZC	D10LZC	D10LZF
MS5, MZ6, MZ8, MZ12, MZAPO with 38mm ISO photoport	D50NLC	D63NLC	D10NLC	
MS5, MZ6, MZ8, MZ12, MZAPO, MZFL3, MZ16 in 37mm port of new phototubes HU(446 174), video/phototube objective 1.0x (445 930), video/phototube objective H(445 931)	D50MZC	D63MZC	D10DMC	
GZ6 with 13410302 phototube	D50NLC	D63NLC	D10NLC	
SZ6	D50BBC	D63BBC	D10BBC	
SZ7	D50BSC	D63BSC	D10BSC	
S6D, S8APO	D50MZC	D63MZC	D10MZC	
MACROSCOPE				
M420 (old style with 38mm ISO photoport)	D50NLC	D63NLC	D10NLC	
M420 (new style with 37mm photoport)	N/A	N/A	D10DMC	
LEITZ (LEICA)				
COMPOUND				
Dialux, Laborlux, Ortholux, Orthoplan, Diaplan, Ergolux, Aristoplan, Aristomet, Mettalux, Mettalloplan (for all models, inserts into 38mm ISO photoport)	D50NLC	D63NLC	D10NLC	
INVERTED				
Diavert, Labovert, Fluovert, Metallovert (for all, inserts into 38mm ISO photoport)	D50NLC	D63NLC	D10NLC	

	C-MOUNT			F-MOUNT
MITUTOYO				
COMPOUND				
Finescope 60	D50F6C	D63F6C	D10F6C	
NIKON				
COMPOUND				
Optiphot-2, Optiphot 100S, 150, 200, 300 Labophot-2, Alphaphot-2, Eclipse series (for all, inserts into 38mm ISO photoport when phototube is removed)	D50NLC	D63NLC	D10NLC	
E200, 400, 600 (with Y-T TV Tube, NOT YIDP phototube)	D50NLC	D63NLC	D10NLC	D10NEF
E800, E1000 (with video tube for C-mount)	D50NLC	D63NLC	D10NLC	D10E8F
STEREO				
SMZ-U, SMZ10A, SMZ800, SMZ1000, SMZ1500 (inserts into 38mm ISO photoport when phototube is removed)	D50NLC	D63NLC	D10NLC	
INVERTED				
Diaphot 300/200, Eclipse TE200/300 sideport, TS100-F (38mm ISO photoport when phototube is removed)	N/A	N/A	D10NLC	
TE2000 U&E frontport	D50TEC	D63TEC	D10TEC	D10TEF
TE2000 S, U&E sideport	N/A	N/A	D10NLC	
METALLURGICAL				
Epiphot 300/200 (38mm ISO photoport when phototube is removed)	N/A	N/A	D10NLC	
MEASURING				
MM40/MM60 (inserts into 38mm ISO photoport)	D50NLC	D63NLC	D10NLC	
OLYMPUS				
COMPOUND				
BX series, AX Provis series, MX series, CX series (replaces Olympus phototube U-SPT)	D50BXC	D63BXC	D10BXC	D10BXF
BH-2 series: BHT, BHTU, BHS, BHM (replaces top part of phototube by removing three screws. Note: will not work in BH-2 tilting trinoc 3-LC407)	D50BHC	D63BHC	D10BHC	
BH, CX40, CH, CH-2, CH30 trinocular with 25mm phototube	N/A	N/A	*D10PCC	
INVERTED				
IX2, CKX series (U-SPT phototube removed)	D50BXC	D63BXC	D10BXC	D10BXF
IX sideport	D50IXC	D63IXC	D10IXC	D10IXF
IX trinocular head	D50BXC	D63BXC	D10BXC	D10BXF
IX51, IX71, IX81, GX51/71	D50BXC	D63BXC	D10BXC	D10BXF
CK, CK40, CK-2 with 25mm phototube	N/A	N/A	*D10PCC	
PME3 Metallurgical	N/A	N/A	D10P3C	
PMG Series Metallurgical	N/A	N/A	D10PGC	
GX Series Metallurgical	N/A	N/A	D10GXC	
STEREO				
SZIIITR and X-TR with 25mm phototube	N/A	N/A	*D10PCC	
SZX9, SZX12	D50BXC	D63BXC	D10BXC	
REICHERT (LEICA)				
COMPOUND				
Microstar IV	D50ADC	D63ADC	D10ADC	
Diastar	D50ADC	D63ADC	D10ADC	

	C-MOUNT			F-MOUNT
UNITRON				
STEREO				
ZST	N/A	N/A	*D10PCC	
WILD (LEICA)				
STEREO				
All new stereos with removable phototube that reveals 38mm ISO photoport; including M3, M5, M7, M8, M10	D50NLC	D63NLC	D10NLC	
MACROSCOPE				
M420 (inserts into 38mm ISO photoport)	D50NLC	D63NLC	D10NLC	
ZEISS				
COMPOUND				
Axioskop, Axioplan, Axiophot, Axiotron, Axioskop-40	D50ZAC	D63ZAC	D10ZAC	
Axiolab, Axioplan-2, Axiophot-2, Axiotech, Axioskop-2, Axiostar, new Standard trinocular tube (Zeiss part number 45 29 02) (Note: will not work in dual port trinoc)	D50ZNC	D63ZNC	D10ZNC	D10ZNF
Universal, Photomicroscope II & III, UEM, Ultraphot IIIB, Axiomat (replaces phototube in all models)	D50ZUC	D63ZUC	D10ZUC	
Standard Trinoc with 25mm phototube 47 30 26, 47 30 28, 47 30 29, 45 29 03	N/A	N/A	*D10PCC	
STEREO				
SV6, SV8, SV11, Stemi 2000-C, Stemi DRC	D50ZNC	D63ZNC	D10ZNC	D10ZNF
INVERTED				
Axiovert models 100, 135, 135M, 200, IM series when used with new Standard trinocular tube (45 29 02)	D50ZNC	D63ZNC	D10ZNC	D10ZNF
Axiovert models 10, 35, 35M, 405M	D50ZAC	D63ZAC	D10ZAC	
IM series when used with old Standard phototube (25mm outside diameter)	N/A	N/A	*D10PCC	
MISCELLANEOUS				
Eyepiece tube with 23.2mm inside diameter eyetube	N/A	N/A	*D10PCC	
25mm Phototube with 23.2mm inside diameter phototube (such as Meiji, Swift)	N/A	N/A	*D10PCC	

1.0x 3 Chip Direct Image Projection Couplers	Sony ½" ENG	Non-Sony ½" ENG	C-Mount
Olympus BX series, SZX series	D10BXS	D10BXN	D10BXTC
Nikon E200, E400, E600	D10NES	D10NEN	D10NETC

Note: If the microscope to be adapted is not listed in this chart, the HR Series must be used. See pages 14-21.

*The D10PCC is a non-parfocal adapter. Short working distance objectives may hit the specimen before achieving focus on the TV monitor. For a parfocal solution, see the HR Series on pages 14-21.

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