

1394 OHCI

DCAM Versions

DCAM Module	3.0.302.3245	(for ORCA-R2)
	2.20.912.3245	(for other cameras)
DRIVER	9.20.6.3245	

Cameras

Cameras	Nickname	400Mbps	800Mbps	Support OS	Note
C10600-10B	ORCA-R2	poor	BEST		(*1)
C4742-80-12AG	ORCA-AG	good	BEST		(*2)(*Disc)
C4742-95-12ERG	ORCA-ERG	good	BEST		(*2)(*Disc)
C4742-95-12NRG	ORCA-NRG	good	BEST		(*2)(*Disc)
C4742-95-12G04 C4742-96-12G04	ORCA-285G	good	BEST		(*2)(*3) (*Disc)
C4742-98-ERG(2)	ORCA-II ERG	good	BEST		(*Disc)
C4742-98-EWG(2)	ORCA-II EWG	good	BEST		(*Disc)
C4742-98-2xKAG(2) C4742-98-2xKWG(2)	ORCA-II BTG 1024	good	BEST	Windows 7 32-bit 64-bit (x64)	
C4742-98-2xLAG(2) C4742-98-2xLWG(2)	ORCA-II BTG 512	good	BEST	Windows Vista 32-bit 64-bit (x64)	
C8484-03G		good	BEST		(*2)(*4) (*Disc)
C8484-05G		good	BEST		(*2)(*4)
C8484-xxG01		good	BEST	Windows XP 32-bit SP3 64-bit (x64)	(*2) (*Disc)
C8484-xxG02		good	BEST		(*2)
C9164-xxG		good	BEST		(*4)
C9260-903		good	BEST		(*Disc)
C9440-xxG		good	BEST		(*4)
C9664-01G		good	BEST		(*4)(*Disc)
C9664-01G01		good	BEST		(*4)
C9664-01G02		good	BEST		
DFG/1394-1e		good	BEST		(*5)(*13)
DFW-SX900		good	BEST	Windows 7 32-bit Windows Vista 32-bit Windows XP 32-bit SP3	(*6)(*Disc)

Required

The IEEE-1394 card must have OHCI compatibility with Microsoft's Inbox Drivers.
Windows XP requires Service Pack 3.

Recommend

PCI Express x1 cards are better than PCI 32-bit/64-bit cards in desktops.
ExpressCard is better than CardBus and PCMCIA cards in notebooks.
LSI FW643 is the best PHY/Link IC for an IEEE-1394 interface card.

USB Camera

DCAM Version

DCAM Module	3.0.302.3245	
DRIVER	1.20.955.3245	(for C10633)
	2.0.1.3245	(for others)

Cameras

Cameras	Nickname	Support OS	Note	
C9260-901/902/904/905	Board camera	Windows 7 32-bit 64-bit (x64) Windows Vista 32-bit 64-bit (x64) Windows XP 32-bit 64-bit (x64)	(*Disc)	
C9260-930	Line binning and TDI		(*Disc)	
C9728DK-10	Flat panel			
C9730DK-10/11	Flat panel			
C9730DT-11	Flat panel			
C9732DK	Flat panel			
C9732DT	Flat panel			
C10400	X-Ray			
C10650	X-Ray TDI			
C10990	Board camera			
C11013	Board camera			
C10633-13/23	InGaAs camera		Windows XP 32-bit	

Active Silicon Phoenix (CameraLink)

DCAM Version

DCAM Module	3.0.302.3245
DRIVER	5.58.0.3245

Cards

Cards	Camera Link Configuration	PC Bus Type	Support OS	Note
AS-PHX-D24CL-PCI32(-B)	Base	32-bit PCI	Windows 7 32-bit Windows Vista 32-bit Windows XP 32-bit	
AS-PHX-D48CL-PCI64(-B)	Medium / Dual	64-bit PCI 3.3V		
AS-PHX-D48CL-PCI64U(-B)	Medium / Dual	32-bit/64-bit PCI / PCI-X		(*Disc)
AS-PHX-D24CL-PE1	Base	PCI Express x1	Windows 7 32-bit 64-bit (x64)	
AS-PHX-D48CL-PE1	Medium / Dual		Windows Vista 32-bit 64-bit (x64) Windows XP 32-bit 64-bit (x64)	

Cameras

Fast speed CameraLink cameras

Cards	Bus Type	Supported Card	Note
C10000-201	TDI Board Camera	AS-PHX-D48CL-PCI64	
C10000-401	TDI Camera		

CameraLink cameras

Cameras	Nickname	Supported Card	Note
C8484-xxC(P)		AS-PHX-D24CL-PE1 AS-PHX-D48CL-PE1 AS-PHX-D24CL-PCI32 AS-PHX-D48CL-PCI64 AS-PHX-D48CL-PCI64U (*Disc)	
C8800-xxC			
C9100-01/11/12			(*Disc)
C9100-02/03			
C9100-13	ImagEM		
C9100-14	ImagEM 1K		
C9300-024/124/201/221			(*7)
C9750-xx	X-Ray Line		
C10400-xx			
C10650-xx	X-Ray TDI		

Required

64-bit (x64) Editions of Windows need PCI Express boards.

Active Silicon Phoenix (LVDS/RS422)

DCAM Version

DCAM Module	3.0.302.3245	(for C7780, X-Ray line)
	2.20.421.1704	(for other cameras)
DRIVER	5.58.0.3245	

Cards

Cards	PC Bus Type	Support OS	Note
AS-PHX-D36-PCI32(-B)	32-bit PCI	Windows 7 32-bit	
AS-PHX-D36-PCI64(-B)	64-bit PCI 3.3V	Windows Vista 32-bit	(*Disc)
AS-PHX-D36-PCI64U(-B)	32-bit/64-bit PCI / PCI-X	Windows XP 32-bit	(*Disc)
AS-PHX-D36-PE1	PCI Express x1	Windows 7 32-bit 64-bit (x64) Windows Vista 32-bit 64-bit (x64) Windows XP 32-bit 64-bit (x64)	

Cameras

LVDS Color cameras

Cameras	Nickname	Supported Cards	Note
C7780-xx	ORCA-3CCD	AS-PHX-D36-PE1 AS-PHX-D36-PCI64 (*Disc) AS-PHX-D36-PCI64U (*Disc)	(*9)

LVDS/RS-422 cameras

Cameras	Nickname	Supported Cards	Note
C4742-95-12NR(B)	ORCA-NR		(*Disc)
C4742-95-12ER	ORCA-ER		(*Disc)
C4742-95-12HR	ORCA-HR		(*8)
C4742-98-2xER	ORCA-II ER		
C4742-98-2xHR	ORCA-II HR		
C4742-98-2xKA / -2xKW	ORCA-II BT 1024		
C4742-98-2xLA / -2xLW	ORCA-II BT 512		
C4880-06/07/16/17			(*Disc)
C4880-80 / C6790-8x			(*Disc)
C7190-1x		AS-PHX-D36-PE1 AS-PHX-D36-PCI32 AS-PHX-D36-PCI64 (*Disc) AS-PHX-D36-PCI64U (*Disc)	(*8) (*Disc)
C8000-10 / -20			(*Disc)
C7390-xx			(*Disc)
C8133-xx			
C8750-xx			
C9133-xx	X-Ray Line		(*Disc)
C9750-xx			
C10400-xx			
C10800-xx	X-Ray Line Dual Energy		
C4880-50		AS-PHX-D36-PCI64U (*Disc)	(*Disc)

Required

64-bit (x64) Editions of Windows need PCI Express boards.

HAMAMATSU

Coreco PC-Dig (LVDS/RS422) and PC-CamLink (CameraLink)

DCAM Version

DCAM Module	3.0.302.3245	(for C7780, X-Ray line and CameraLink)
	2.20.583.1704	(for other cameras)
DRIVER	5.8.3.3245	(for Windows XP)
	5.10.0.3245	(for Windows Vista)

Cards

Cards	Camera Interface	PC Bus Type	Support OS	Note
PC-Dig	LVDS/RS422	32-bit PCI	Windows Vista 32-bit	(*Disc)
PC-CamLink	CameraLink Base		Windows XP 32-bit	

Cameras

CameraLink cameras

Cameras	Nickname	Supported Card	Note
C8484-xxC(P)		PC-CamLink (*Disc)	
C8800-xxC			
C9100-01/11/12			(*Disc)
C9100-02/03			(*10)
C9100-13	ImagEM		
C9100-14	ImagEM 1K		
C9300-024/124/201/221			(*11)
C9750-xx	X-Ray Line		
C10400-xx	X-Ray Line		
C10650-xx	X-Ray TDI		

LVDS Color cameras

Cameras	Nickname	Supported Cards	Note
C7780-xx	ORCA-3CCD	PC-Dig (*Disc)	(*12)

LVDS/RS-422 cameras

Cameras	Nickname	Supported Cards	Note
C4742-95-12NR(B)	ORCA-NR	PC-Dig (*Disc)	(*Disc)
C4742-95-12ER	ORCA-ER		(*Disc)
C4742-95-12HR	ORCA-HR		
C4742-98-2xER	ORCA-II ER		
C4742-98-2xHR	ORCA-II HR		
C4742-98-2xKA / -2xKW	ORCA-II BT 1024		
C4742-98-2xLA / -2xLW	ORCA-II BT 512		
C4880-06/07/16/17/50			(*Disc)
C4880-80 / C6790-8x			(*Disc)
C7190-1x			
C7190-2x/4x/5x			(*Disc)
C8000-10 / -20			(*Disc)
C7390-xx	X-Ray Line		(*Disc)
C8133-xx			
C8750-xx			
C9133-xx			(*Disc)
C9750-xx			
C10400-xx			
C10800-xx	X-Ray Line Dual Energy		

Notes

- *Disc: Discontinued. There is no more new production so stock may be depleted or very minimal. Hardware/firmware support is finalized. Software support for hardware is for backward compatibility.
- *1: C10600-10B (ORCA-R2) has limitation for full performance with IEEE-1394 400Mbps port.
- *2: CRi LCD filter driving with serial port box is supported.
- *3: CRi LCD filter driving is supported.
- *4: These cameras should not be connected to Mac's on-board Firewire port because it supplies about 30V which may damage the camera. Please use a PCI Firewire Adapter card.
- *5: The Imaging Source DFG/1394-1e Video-to-FireWire Converter:

http://www.theimagingsource.com/en_US/products/converters/dfg13941e/

- *6: Only SONY DFW-SX900 cameras delivered from Hamamatsu are supported by DCAM-API.
- *7: For dual tap, maximum performance mode, it is required to use

AS-PHX-D48CL-PCI64(-B)
AS-PHX-D48CL-PE1.
AS-PHX-D24CL-PE1.

- *8: Special Digital I/F cable for Phoenix is required:

(a) HPK cable part number: A9608-95 (Digital I/F cable for Phoenix/C7190-20)

or

(b) For C7190-2x/4x/5x, HC/ASL cable part number:

WB3021 (CABLE FOR DIG-36-PE1/DIG-36 PHOENIX BOARD AND C7190-2x/4x/5x, ORCA-100/II/ER)

or

(c) For C4742-95-12HR, HC/ASL cable part number:

WB3021-HR (CABLE FOR DIG-36-PE1/DIG-36 PHOENIX BOARD AND ORCA-HR)

with Phoenix Serial Port jumpers set for RS232 for MacOSX. For Windows, these parts and setting are recommended.

- *9: C7780 fully works with AS-PHX-D36-PCI64(-B) / -PE1 only
- *10: For Windows Vista, 16x16 binning and small regions are not supported.
- *11: For dual tap, maximum performance is not guaranteed.
- *12: C7780 has limitation for full performance with Coreco PC-DIG.
- *13: For Windows 7 only, the DFG/1394-1e Video-to-FireWire Converter does not support any features/properties. The reason is because of a DirectShow bug present in Windows 7 reported here:

<http://social.msdn.microsoft.com/Forums/en-US/windowsdirectshowdevelopment/thread/2fa02722-7a2e-46c9-8caa-2feb7913c99d>