

1394 OHCI

DCAM Versions

DCAM Module

3.0.302.3102

(for ORCA-R2)

2.20.912.3102

(for other cameras)

DRIVER

9.14.10.3102

Support

Cameras	Nickname	400Mbps	800Mbps	Note
C10600-10B	ORCA-R2	poor	BEST	(*13)
C4742-80-12AG	ORCA-AG	good	BEST	(*1)
C4742-95-12ERG	ORCA-ERG	good	BEST	(*1)
C4742-95-12NRG	ORCA-NRG	good	BEST	(*1)
C4742-95-12G04 / -96-12G04	ORCA-285G	good	BEST	(*1)(*2)
C4742-98-ERG(2)	ORCA-II ERG	good	BEST	
C4742-98-EWG(2)	ORCA-II EWG	good	BEST	
C4742-98-2xKAG(2) / -2xKWG(2)	ORCA-II BTG 1024	good	BEST	
C4742-98-2xLAG(2) / -2xLWG(2)	ORCA-II BTG 512	good	BEST	
C8484-xxG		good	BEST	(*1)(*3)
C8484-xxG01		good	BEST	(*1)
C9260-903		good	BEST	
C9164-xxG		good	BEST	(*3)
C9440-xxG		good	BEST	(*3)
C9664-01G		good	BEST	(*3)
DFG/1394-1e / DFG/SV-1		good	BEST	(*4)
DFW-SX900		good	BEST	(*5)(*12)

Required

The IEEE-1394 card must have OHCI compatibility.

Recommend

PCI Express x1 cards are better than PCI 32bit/64bit 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

3.0.302.3102

DRIVER

1.20.955.3102

(for C10633)

1.30.114.3102

(for others)

Support

Cameras	Nickname	Note
C9260-901/902/904/905	Board camera	(*12)
C9260-930	Line binning and TDI	(*12)
C9732DK	Flat panel	(*12)
C9730DK-10/11	Flat panel	(*12)
C9728DK-10	Flat panel	(*12)
C10633-13/23	InGaAs camera	(*12)
C10650	X-Ray TDI	(*12)
C10990	Board camera	(*12)
C11013	Board camera	(*12)

Active Silicon Phoenix

DCAM Version

DCAM Module

3.0.302.3102

(for C8484, C8800, C9100, C9300,
C10000, X-Ray line)

2.20.421.1665

(for other cameras)

DRIVER

5.44.0.3102

Support (CameraLink)

Cards	Bus Type	Support Cameras				Note
AS-PHX-D24CL-PCI32(-B)	PCI 32bit	↓				(*12)
AS-PHX-D24CL-PE1	PCI Express x1		↓			
AS-PHX-D48-PCI64(-B)	PCI 64bit 3.3V			↓		(*12)
AS-PHX-D48-PCI64U(-B)	PCI 32bit/64bit, PCI-X			↓		(*12)
AS-PHX-D48-PE1	PCI Express x1				↓	
Cameras	Nickname	Supported Cards				Note
C8484-xxC(P)		good	BEST	rich	rich	
C8800-xxC		good	BEST	rich	rich	
C9100-01/02/11/12		good	BEST	rich	rich	
C9100-13	ImagEM	good	BEST	rich	rich	
C9100-14	ImagEM 1K	good	BEST	rich	rich	
C9300-024/124/201/221		poor	BEST	good	rich	(*8)
C9750-xx	X-Ray Line	good	BEST	rich	rich	(*New)
C10000-201	TDI Board Camera	n/a	n/a	BEST	n/a	
C10000-401	TDI Camera	n/a	n/a	BEST	n/a	
C10400-xx	X-Ray Line	good	BEST	rich	rich	(*New)

Support (LVDS/RS-422)

Cards	Bus Type	Support Cameras			Note
AS-PHX-D36-PCI32(-B)	PCI 32bit	↓			(*12)
AS-PHX-D36-PCI64(-B)	PCI 64bit 3.3V		↓		(*12)
AS-PHX-D36-PCI64U(-B)	PCI 32bit/64bit, PCI-X		↓		(*12)
AS-PHX-D36-PE1	PCI Express x1			↓	
Cameras	Nickname	Supported Cards			Note
C4742-95-12NR(B)	ORCA-NR	good	rich	BEST	
C4742-95-12ER	ORCA-ER	good	rich	BEST	
C4742-95-12HR	ORCA-HR	good	rich	BEST	(*6)
C4742-98-2xER	ORCA-II ER	good	rich	BEST	
C4742-98-2xKA(2) / -2xKW(2)	ORCA-II BT 1024	good	rich	BEST	
C4742-98-2xLA(2) / -2xLW(2)	ORCA-II BT 512	good	rich	BEST	
C4880-06/07/16/17		good	rich	BEST	
C4880-50		n/a	good	BEST	
C4880-8x		good	rich	BEST	
C6790-8x		good	rich	BEST	
C7190-1x		good	rich	BEST	
C7190-2x/4x/5x		good	rich	BEST	(*6)
C7390-xx	X-Ray Line	good	rich	BEST	
C7780-xx	ORCA-3CCD	n/a	good	BEST	(*7)
C8000-10 / -20		good	rich	BEST	
C8133-xx	X-Ray Line	good	rich	BEST	
C8750-xx	X-Ray Line	good	rich	BEST	
C9133-xx	X-Ray Line	good	rich	BEST	
C9750-xx	X-Ray Line	good	rich	BEST	(*New)
C10400-xx	X-Ray Line	good	rich	BEST	(*New)

Coreco PC-Dig/PC-CamLink

DCAM Version		
DCAM Module	3.0.302.3102	(for CameraLink and X-Ray line)
	2.20.583.1665	(for other cameras)
DRIVER	5.8.3.3102	(for Windows XP)
	5.10.0.3102	(for Windows Vista)

Support (CameraLink)

Cards	Bus Type		Note
PC-CamLink	PCI 32bit	↓	(*12)
Cameras	Nickname		Note
C8484-xxC(P)		good	
C8800-xxC		good	
C9100-01/02/11/12		good	(*10)
C9100-13	ImagEM	good	
C9100-14	ImagEM 1K	good	
C9750-xx	X-Ray Line	good	(*New)
C9300-024/124/201/221		poor	(*11)
C10400-xx	X-Ray Line	good	(*New)

Support (LVDS/RS-422)

Cards	Bus Type		Note
PC-Dig	PCI 32bit	↓	(*12)
Cameras	Nickname		Note
C4742-95-12NR(B)	ORCA-NR	good	
C4742-95-12ER	ORCA-ER	good	
C4742-95-12HR	ORCA-HR	good	
C4742-98-2xER	ORCA-II ER	good	
C4742-98-2xKA(2) / -2xKW(2)	ORCA-II BT 1024	good	
C4742-98-2xLA(2) / -2xLW(2)	ORCA-II BT 512	good	
C4880-06/07/16/17		good	
C4880-50		good	
C4880-8x		good	
C6790-8x		good	
C7190-1x		good	
C7190-2x/4x/5x		good	
C7390-xx	X-Ray Line	good	
C7780-xx	ORCA-3CCD	poor	(*9)
C8000-10 / -20		good	
C8133-xx	X-Ray Line	good	
C8750-xx	X-Ray Line	good	
C9133-xx	X-Ray Line	good	
C9750-xx	X-Ray Line	good	(*New)
C10400-xx	X-Ray Line	good	(*New)

Notes

- *New: New supported camera, from March 2009.
- *1: CRi LCD filter driving with serial port box is supported.
- *2: CRi LCD filter driving is supported.
- *3: These camera 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.
- *4: The Imaging Source DFG/1394-1e Video-to-FireWire Converter:

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

and The Imaging Source DFG/SV-1 PCI low budget standard frame grabber:

http://www.theimagingsource.com/en_US/products/grabbers/dfgsv1/

- *5: Only SONY DFW-SX900 cameras delivered from Hamamatsu are supported by DCAM-API.
- *6: 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.

- *7: C7780 works with Phoenix Pro/PCIe LVDS only
- *8: For dual tap, maximum performance mode, it is required to use Phoenix Pro/PCIe CameraLink.
- *9: C7780 has limitation for full performance with Coreco PC-DIG.
- *10: For Windows Vista, 16x16 binning and small regions are not supported.
- *11: For dual tap, maximum performance is not guaranteed.
- *12: For Windows 32bit version only.
- *13: C10600-10B (ORCA-R2) has limitation for full performance with IEEE-1394 400Mbps port.