

FireWire cameras

Cables, PSUs, interface boards

The bus "FireWire" offers a multitude of connections and power supplies possibilities. This white paper gives you an overview of these possibilities in the context of FireWire cameras, which do not come with a power supply.

Please note:

- It is the responsibility of an on-site engineer to correctly integrate FireWire cameras in the context of real applications.

Content

Overview	2
Connecting desktops	
with FireWire interface	3
without FireWire interface	3
Connecting Laptops	
with FireWire interface (4-pin socket)	
Supplying the cameras via a Y cable	4
Supplying the cameras via a hub	4
with FireWire interface (6-pin socket)	
Laptop does not supply the FireWire socket with power	5
Laptop does supply the FireWire socket with power	5
without FireWire interface	6



EUROPEAN HEADQUARTERS
The Imaging Source Europe GmbH
Sommerstrasse 36,
D-28215 Bremen,
Germany

US HEADQUARTERS
The Imaging Source, LLC
7257 Pineville-Matthews Road,
Charlotte, NC 28226

www.theimagingsource.com/en

All product and company names in this document may be trademarks and tradenames of their respective owners and are hereby acknowledged.

The Imaging Source Europe GmbH cannot and does not take any responsibility or liability for any information contained in this document. The source code presented in this document is exclusively used for didactic purposes. The Imaging Source does not assume any kind of warranty expressed or implied, resulting from the use of the content of this document or the source code.

The Imaging Source Company reserves the right to make changes in specifications, function or design at any time and without prior notice.

Last update: October 2006
Copyright © 2005 The Imaging Source Europe GmbH
All rights reserved. Reprint, also in parts, only allowed with permission of The Imaging Source Europe GmbH.

All weights and dimensions are approximate.

Overview

Computers are either equipped with a 4-pin or a 6-pin FireWire socket:



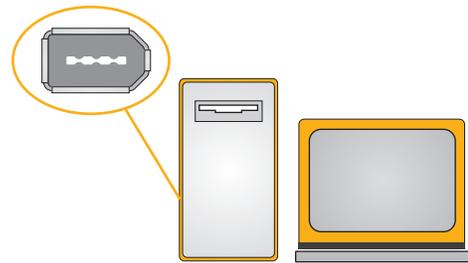
4-pin sockets connect the data signals only but do not connect the power supply of the bus.



6-pin sockets connect the data signals as well as the power supply of the bus.

Connecting FireWire cameras to desktops

Desktops come with 6-pin FireWire sockets. They supply these sockets with power. Thus, the one and only question is whether your desktop is already equipped with a FireWire interface or not. Please find details on [page 3](#).

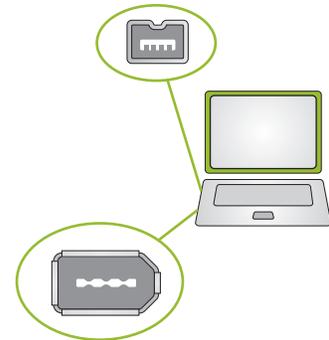


Connecting FireWire cameras to laptops

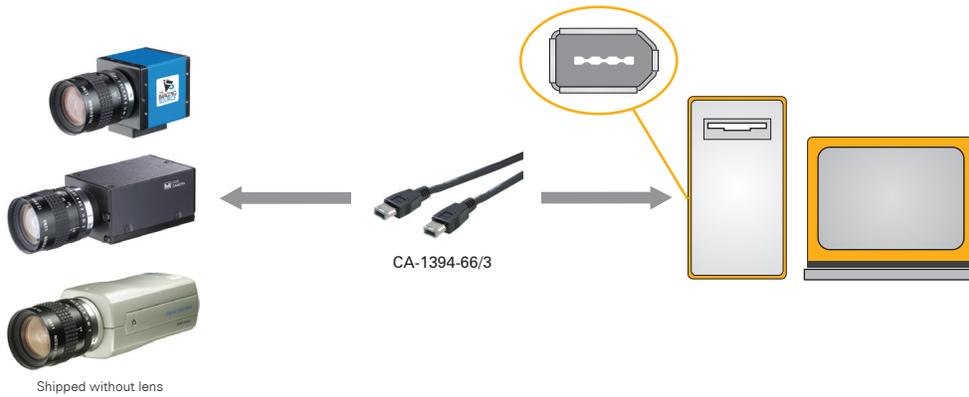
Usually laptops come with 4-pin sockets. Please see [page 4](#) to learn more about how to supply your FireWire camera with power in this case.

If your laptop comes with a 6-pin socket you have to know whether the laptop supplies the socket with power or not. [Page 5](#) describes the connection of your FireWire camera for both cases.

Does your laptop not come with any FireWire interface, please see [page 6](#) to learn how to upgrade the laptop.

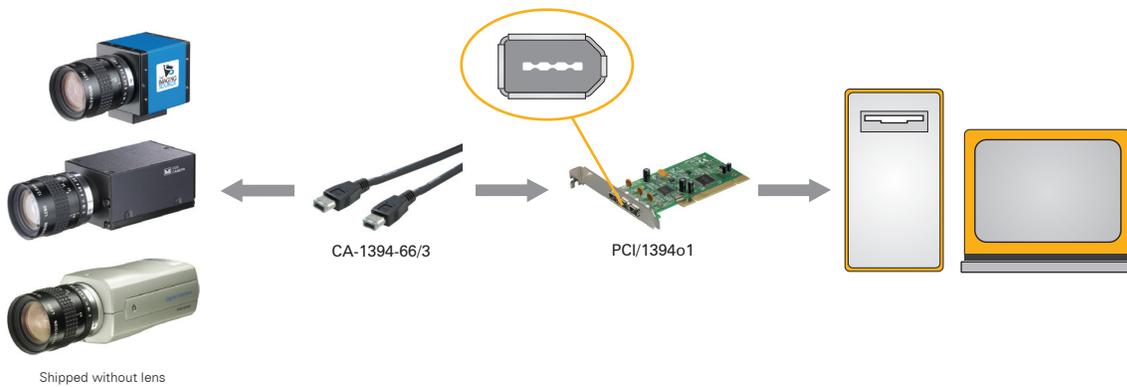


Connecting **desktops with** a FireWire interface



Order Code	Qty.	Product
CA-1394-66/3	1	Cable connecting two 6-pin IEEE 1394 devices, length 3m

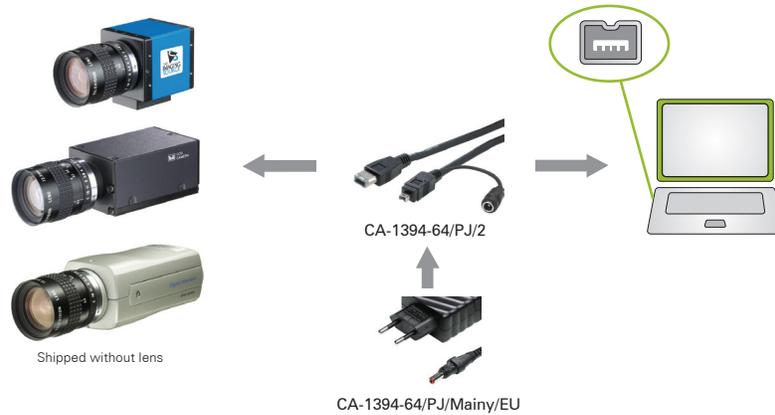
Connecting **desktops without** a FireWire interface



Order Code	Qty.	Product
CA-1394-66/3	1	Cable connecting two 6-pin IEEE 1394 devices, length 3m
PCI/1394o1	1	The Imaging Source IEEE 1394 PCI bus interface, OHCI compliant

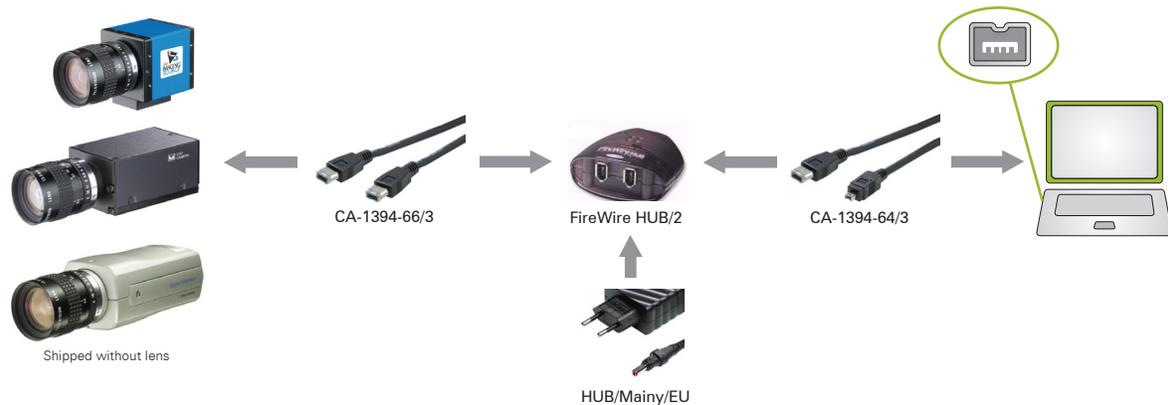
Connecting **laptops with** a FireWire interface (4-pin socket)

Supplying the cameras via a Y cable



Order Code	Qty.	Product
CA-1394-64/PJ/2	1	Cable connecting a 4-pin and a 6-pin IEEE 1394 device, it additionally offers a connection to the power supply of the FireWire bus, length 2m
CA-1394-64/PJ/Mainy/EU	1	PSU for CA-1394-64/PJ/x, input range 90 to 264 VAC, output 12VDC/1A, EURO plug
or:		
CA-1394-64/PJ/Mainy/US	1	PSU for CA-1394-64/PJ/x, input range 90 to 264 VAC, output 12VDC/1A, US plug

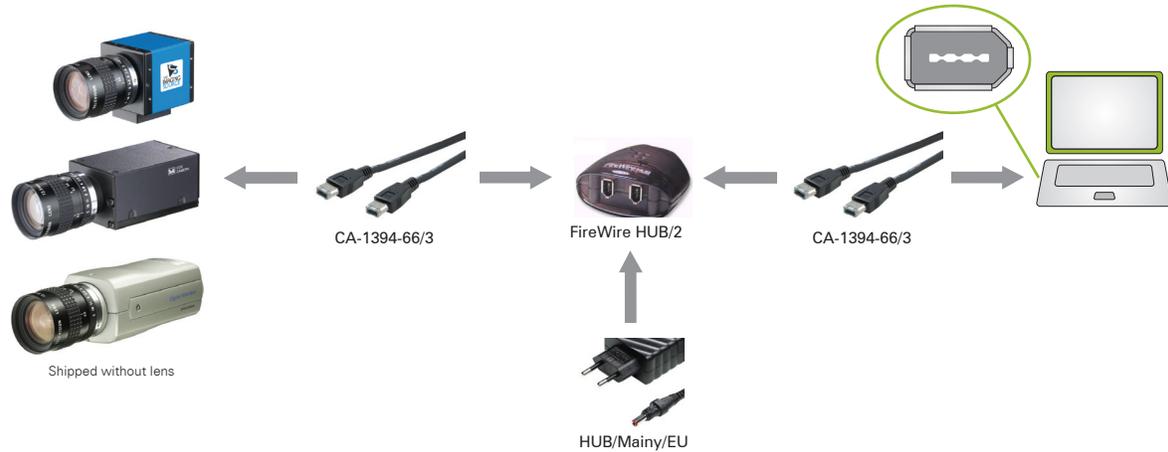
Supplying the cameras via a hub



Order Code	Qty.	Product
CA-1394-66/3	1	Cable connecting two 6-pin IEEE 1394 devices, length 3m
CA-1394-64/3	1	Cable connecting a 4-pin and a 6-pin IEEE 1394 device, length 3m
FireWire HUB/2	1	IEEE1394 3 Port FireWire HUB
HUB/Mainy/EU	1	PSU for FireWire HUB, input range 90 to 264 VAC, output 12VDC/1A, EURO plug
or:		
HUB/Mainy/US	1	PSU for FireWire HUB, input range 90 to 264 VAC, output 12VDC/1A, US plug

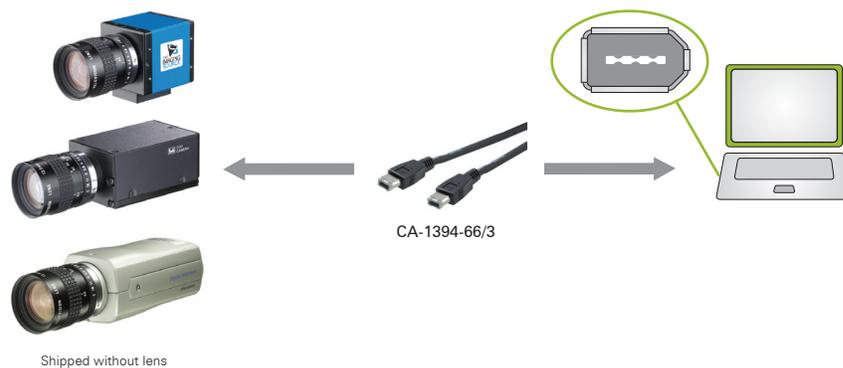
Connecting **laptops with** a FireWire interface (6-pin socket)

Laptop **does not** supply the FireWire socket with power



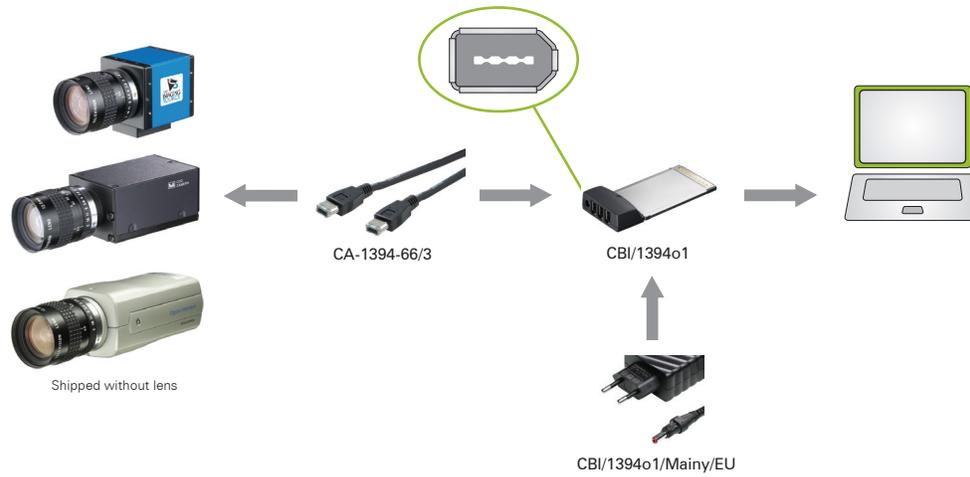
Order Code	Qty.	Product
CA-1394-66/3	2	Cable connecting two 6-pin IEEE 1394 devices, length 3m
FireWire HUB/2	1	IEEE1394 3 Port FireWire HUB
HUB/Mainy/EU	1	PSU for FireWire HUB, input range 90 to 264 VAC, output 12VDC/1A, EURO plug
or:		
HUB/Mainy/US	1	PSU for FireWire HUB, input range 90 to 264 VAC, output 12VDC/1A, US plug

Laptop **does** supply the FireWire socket with power (usually **not** in battery mode)



Order Code	Qty.	Product
CA-1394-66/3	1	Cable connecting two 6-pin IEEE 1394 devices, length 3m

Connecting **laptops without** a FireWire interface



Order Code	Qty.	Product
CA-1394-66/3	1	Cable connecting two 6-pin IEEE 1394 devices, length 3m
CBI/1394o1	1	The Imaging Source IEEE 1394 PC Card interface, OHCI compliant
CBI/1394o1/Mainy/EU	1	PSU for CBI/1394o, input range 90 to 264 VAC, output 12VDC/1A, EURO plug
or:		
CBI/1394o1/Mainy/US	1	PSU for CBI/1394o, input range 90 to 264 VAC, output 12VDC/1A, US plug