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

THE IMAGINGSOURCE
TECHNOLOGY BASED ON STANDARDS

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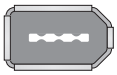
Overview

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

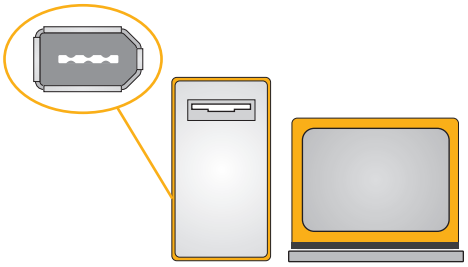
4-pin sockets connect the data signals only but do not connect the power supply of the bus.



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 theses 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**.

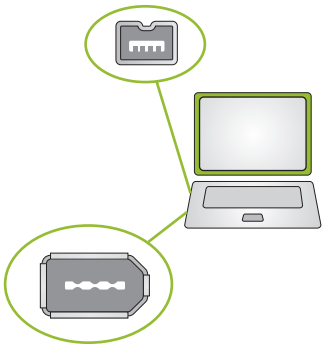


Connecting FireWire cameras to laptops

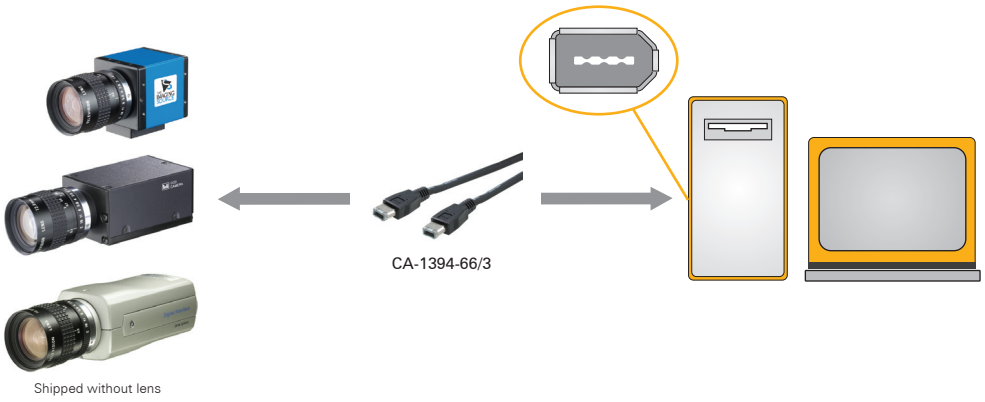
Usually laptops come with 4-pin sockets. Please see **page 4** to learn more about how to supply your FireWire camera with power in this case.

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.



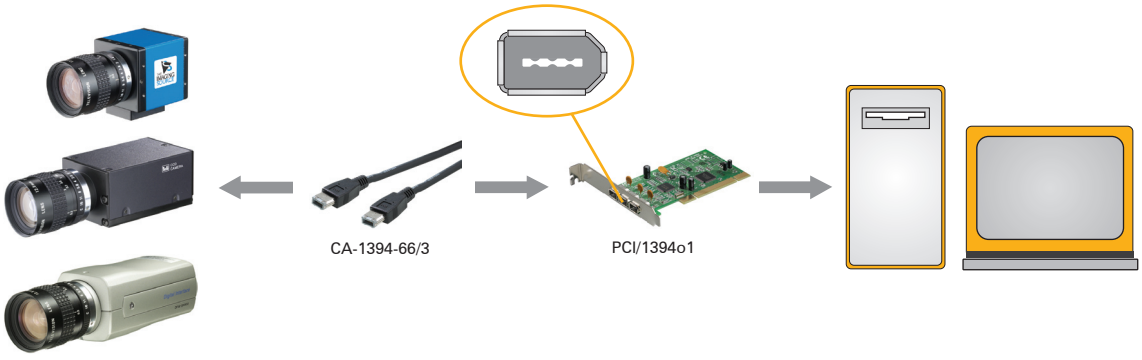
Connecting **desktops with** a FireWire interface



Shipped without lens

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

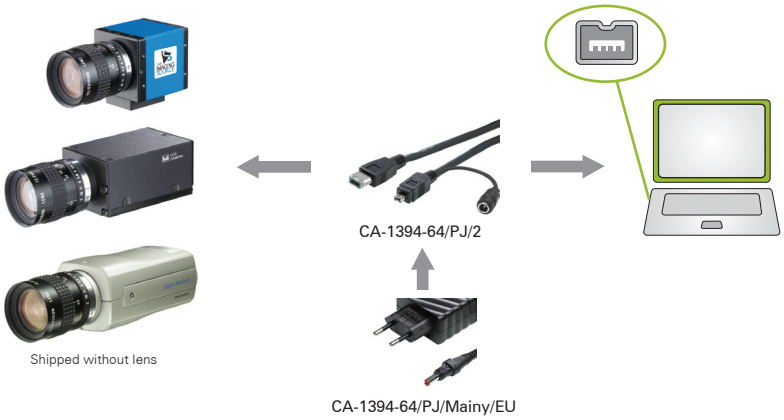


Shipped without lens

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

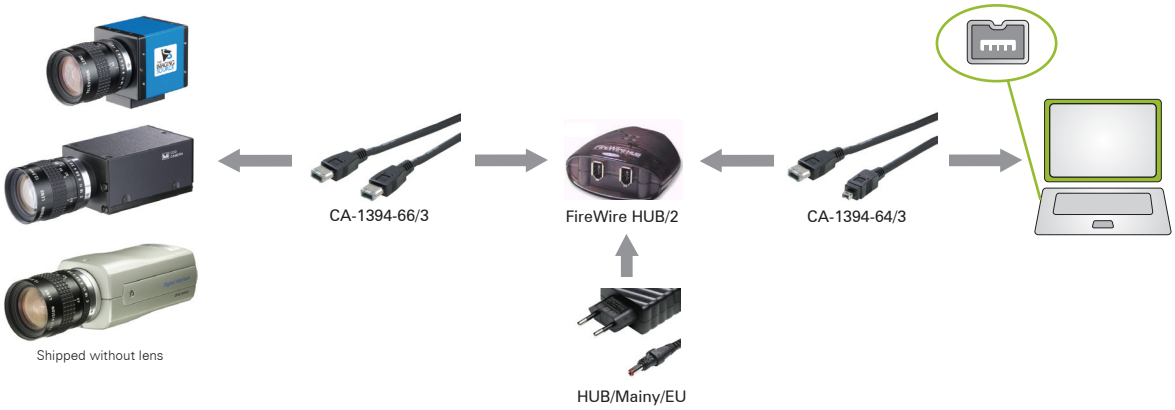
Connecting **laptops with** a FireWire interface (4-pin socket)

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

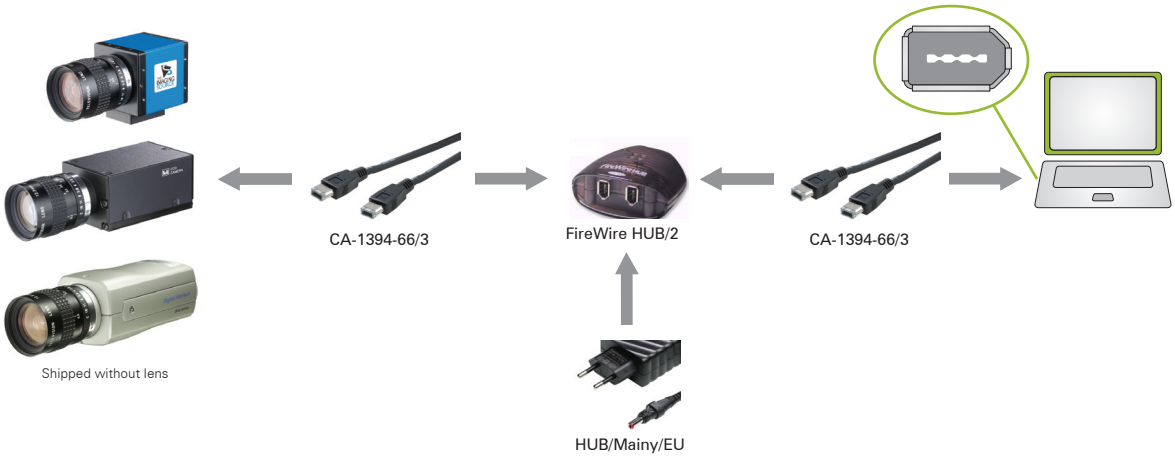
Supplying the cameras via a hub



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

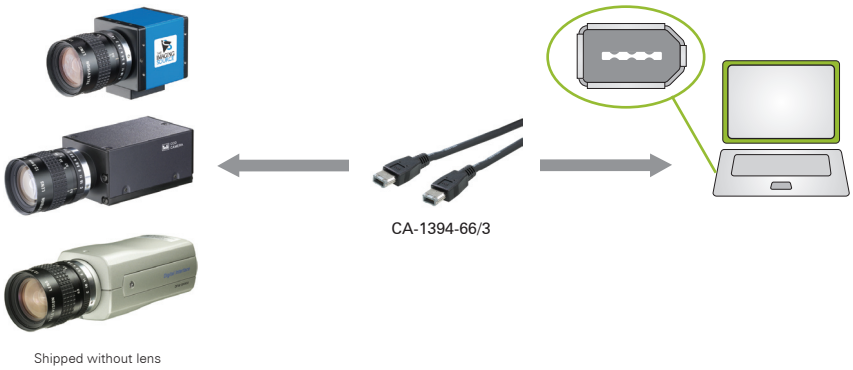
Connecting **laptops with** a FireWire interface (6-pin socket)

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



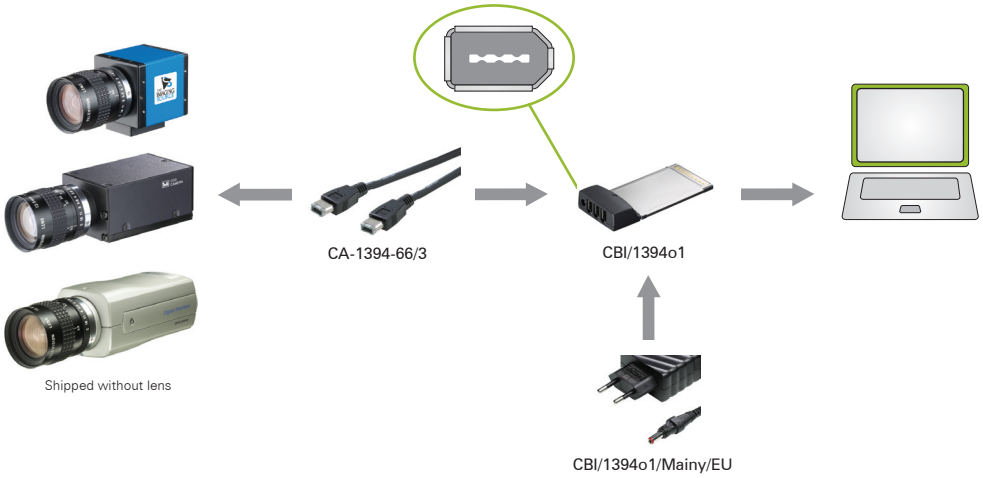
Order Code	Qty.	Product
CA-1394-66/3	2	Cable connecting two 6-pin IEEE 1394 devices, length 3m
FireWire HUB/2	1	IEEE1394 3 Port FireWire HUB
HUB/Mainy/EU	1	PSU for FireWire HUB, input range 90 to 264 VAC, output 12VDC/1A, EURO plug
or:		
HUB/Mainy/US	1	PSU for FireWire HUB, input range 90 to 264 VAC,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