



## Artisan Technology Group is your source for quality new and certified-used/pre-owned equipment

- FAST SHIPPING AND DELIVERY
- TENS OF THOUSANDS OF IN-STOCK ITEMS
- EQUIPMENT DEMOS
- HUNDREDS OF MANUFACTURERS SUPPORTED
- LEASING/MONTHLY RENTALS
- ITAR CERTIFIED SECURE ASSET SOLUTIONS

### SERVICE CENTER REPAIRS

Experienced engineers and technicians on staff at our full-service, in-house repair center

### *InstraView*<sup>SM</sup> REMOTE INSPECTION

Remotely inspect equipment before purchasing with our interactive website at [www.instraview.com](http://www.instraview.com) ↗

### WE BUY USED EQUIPMENT

Sell your excess, underutilized, and idle used equipment. We also offer credit for buy-backs and trade-ins. [www.artisanng.com/WeBuyEquipment](http://www.artisanng.com/WeBuyEquipment) ↗

### LOOKING FOR MORE INFORMATION?

Visit us on the web at [www.artisanng.com](http://www.artisanng.com) ↗ for more information on price quotations, drivers, technical specifications, manuals, and documentation

**Contact us:** (888) 88-SOURCE | [sales@artisanng.com](mailto:sales@artisanng.com) | [www.artisanng.com](http://www.artisanng.com)

## IMAQ D100 CAMERA CABLE

This guide describes how to attach the IMAQ D100 family of digital camera cables to your image acquisition (IMAQ) device.

You can use the IMAQ D100 cable to connect your IMAQ device to your digital video camera and four trigger channels. Refer to your IMAQ device documentation for more detailed information on these signals.



**Note** Your camera receptacles or cables may appear different from those illustrated in this guide. Refer to the National Instruments Web site, <http://www.natinst.com/imaq>, for the latest information on using different cameras and cables with your IMAQ device.

### What You Need to Get Started

---

To install your IMAQ D100 cable, you will need the following:

- IMAQ D100 cable
- IMAQ D100 Camera Cable Installation Guide*
- Your IMAQ device and documentation
- Your computer
- Your digital camera
- IMAQ D2504 cable and documentation (optional)
- BNC cables for trigger signal connection (optional)
- Trigger signal source (optional)

---

IMAQ™ is a trademark of National Instruments Corporation. Product and company names mentioned herein are trademarks or trade names of their respective companies.

371868A-01

© Copyright 1998, 1999 National Instruments Corp. All rights reserved.

March 1999

# Installation

---

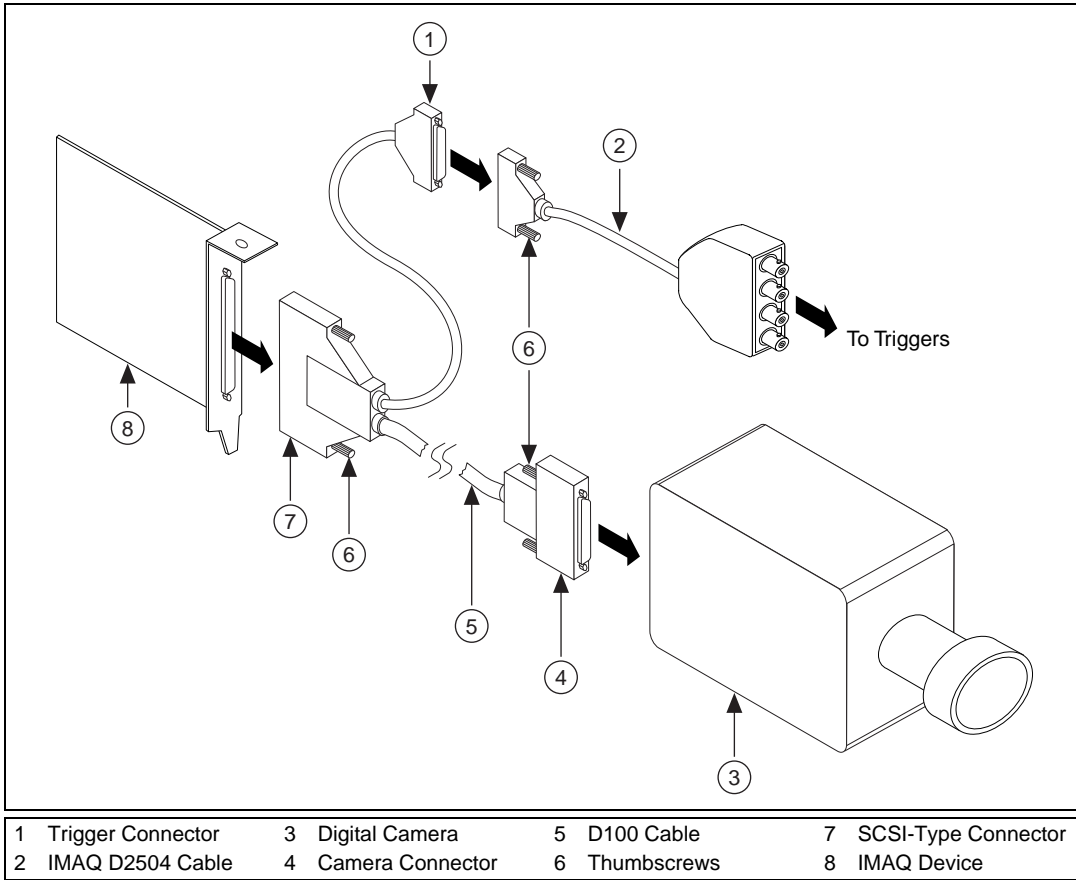
As shown in Figure 1, insert the 100-pin SCSI-type connector end of the IMAQ D100 cable into the external 100-pin SCSI-type receptacle of your IMAQ device, ensuring correct polarity. Tighten the thumbscrews as necessary.

Insert the camera connector end of the IMAQ D100 cable into the receptacle of your camera, ensuring correct polarity. Tighten the thumbscrews as necessary.

## Triggering

If you plan to connect external trigger signals to your IMAQ device, you can use either the IMAQ D2504 cable or your own trigger interface cable. If building your own cable, see Figure 2 for pin-out information. For more information on the D2504 cable, see the *IMAQ 2504 Cable Installation Guide*.

Insert the trigger interface cable into the trigger connector of the D100 cable, ensuring correct polarity. Tighten the thumbscrews as necessary.



**Figure 1.** Connecting the D100 Cable to Your IMAQ Device and Digital Camera

Unused	25	13	Unused
Reserved	24	12	GND
Reserved	23	11	GND
Reserved	22	10	GND
Unused	21	9	Unused
Unused	20	8	Unused
Unused	19	7	Unused
Unused	18	6	Unused
Unused	17	5	Unused
Unused	16	4	TRIGGER3
GND	15	3	TRIGGER2
Unused	14	2	TRIGGER1
		1	TRIGGER0

**Figure 2.** D100 Cable Trigger Connector Pin Assignments



## Artisan Technology Group is your source for quality new and certified-used/pre-owned equipment

- FAST SHIPPING AND DELIVERY
- TENS OF THOUSANDS OF IN-STOCK ITEMS
- EQUIPMENT DEMOS
- HUNDREDS OF MANUFACTURERS SUPPORTED
- LEASING/MONTHLY RENTALS
- ITAR CERTIFIED SECURE ASSET SOLUTIONS

### SERVICE CENTER REPAIRS

Experienced engineers and technicians on staff at our full-service, in-house repair center

### *InstraView*<sup>SM</sup> REMOTE INSPECTION

Remotely inspect equipment before purchasing with our interactive website at [www.instraview.com](http://www.instraview.com) ↗

### WE BUY USED EQUIPMENT

Sell your excess, underutilized, and idle used equipment. We also offer credit for buy-backs and trade-ins. [www.artisanng.com/WeBuyEquipment](http://www.artisanng.com/WeBuyEquipment) ↗

### LOOKING FOR MORE INFORMATION?

Visit us on the web at [www.artisanng.com](http://www.artisanng.com) ↗ for more information on price quotations, drivers, technical specifications, manuals, and documentation

**Contact us:** (888) 88-SOURCE | [sales@artisanng.com](mailto:sales@artisanng.com) | [www.artisanng.com](http://www.artisanng.com)