

# IMAQ 6804 CABLE

This guide describes how to attach the IMAQ 6804 cable to your image acquisition (IMAQ) device. The IMAQ 6804 family of cables includes the A6804 and D6804 cables. You can use the IMAQ 6804 cable with any IMAQ image acquisition device that features a 68-pin VHDCI connector.

Use the IMAQ A6804 cable with your analog IMAQ device. The A6804 cable allows you to connect three additional video channels and one trigger channel to your IMAQ device using the IMAQ analog device's external 68-pin VHDCI connector.

You can use the IMAQ D6804 cable with both digital and analog devices to connect four external trigger sources to your IMAQ digital device's external 68-pin VHDCI connector.

## What You Need to Get Started

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To install your IMAQ 6804 cable, you will need the following:

- One of the following IMAQ 6804 cables:
  - IMAQ A6804 cable for analog IMAQ devices
  - IMAQ D6804 cable for digital and analog IMAQ devices
- IMAQ 6804 Cable Installation Guide*
- Your IMAQ device
- BNC cables
- Your computer
- Your camera or other video or trigger signal source

# Installation

- ◆ IMAQ A6804 cable

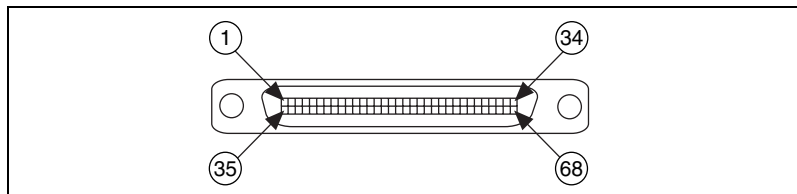
Insert the VHDCI connector end of the IMAQ A6804 cable, shown in Figure 1, into the IMAQ device's external 68-pin VHDCI receptacle, ensuring correct polarity. Tighten the thumbscrews as necessary.

You can now connect up to four BNC cables to the other end of the IMAQ A6804 cable for access to three additional video channels, V1, V2, V3, and one trigger channel, T0, as shown in Figure 2.

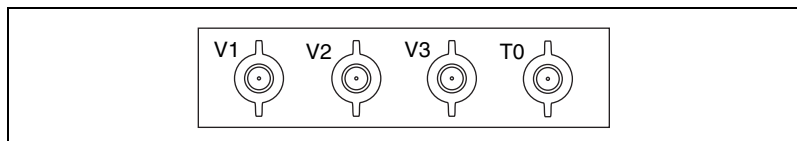
- ◆ IMAQ D6804 cable

Insert the VHDCI connector end of the IMAQ D6804 cable, shown in Figure 1, into the IMAQ device's external 68-pin VHDCI receptacle, ensuring correct polarity. Tighten the thumbscrews as necessary.

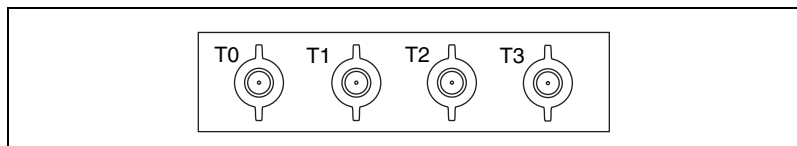
You can now connect up to four BNC cables to the other end of the IMAQ D6804 cable for access to four external trigger sources, T0, T1, T2, and T3, as shown in Figure 3.



**Figure 1.** IMAQ 6804 68-pin VHDCI Connector



**Figure 2.** IMAQ A6804 BNC Connectors



**Figure 3.** IMAQ D6804 BNC Connectors

