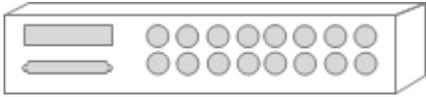
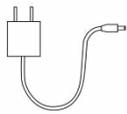
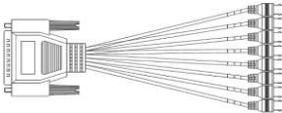
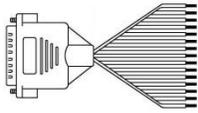
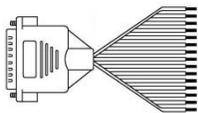




Adding Analog Cameras to the CV4IP-16

The CV1600 allows seamless integration of analog cameras with the IP cameras connected to your CV4IP. A video version of these instructions can be found at <https://youtu.be/8DH5GBnDHs>.

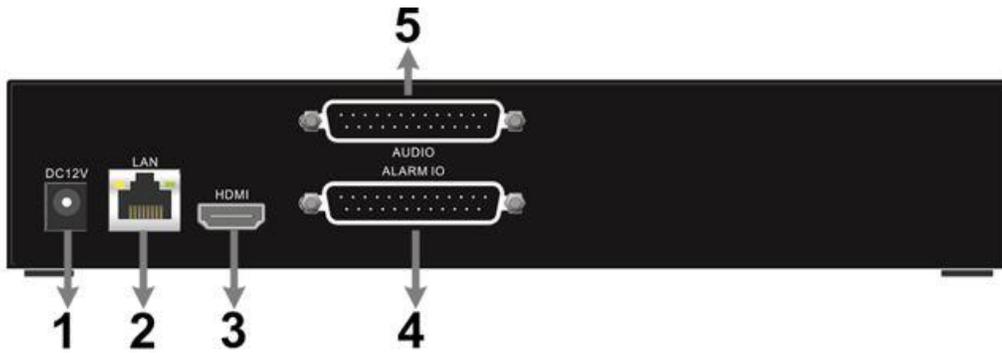
The CV1600 comes with the following items in the box:

CV1600	
Power Supply	
D-Sub Cable for video looping	
D-Sub Cable (Alarm I/O) Future Use	
D-Sub Cable (Audio) Future Use	

Front Panel

The diagram shows the front panel of the CV1600. On the left, there is an 'Encoder' label above a 'VIDEO LOOPING' connector, which is indicated by a large number '1' below it. To the right of the encoder is a row of 16 BNC connectors labeled CH1 through CH16, arranged in two rows of eight. This group of connectors is indicated by a large number '2' below it.

1	Video Looping	Video Looping connector is provided for looping out the video input.
2	Video In (BNC)	A group of BNC connectors, 4/8/16 connectors, is provided for video input streams from installed cameras. The number of connectors equals to the number of channels.



1	Power Jack	Connect the power supply cord shipped with the Encoder. Use of other power supply cords may cause overloading.
2	LAN 10/100/1000M (RJ-45)	Connect to the local network for viewing video via the CheckVideo portal.
3	Main Monitor (HDMI)	Future use
4	Alarm I/O & RS-485	Future use
5	Audio (16CH models only)	Future use

Connect CV4IP to your network and power up. If using, connect a monitor to the CV4IP before power up. Add the CV4IP to your CheckVideo account.

Connect analog cameras to the CV1600 and connect the CV1600 to your network. Power up the cameras and the CV1600.

On the CheckVideo Portal, select the Configure IP Gateway option under the Devices tab. Select your Gateway from the dropdown and then select the Enter ONVIF Credentials button.



If you are adding IP cameras along with analog cameras connected to the CV1600, enter the ONVIF credentials of the IP cameras. Otherwise, the CV4IP Gateway can automatically detect any CV1600 on your network. No ONVIF credentials are necessary for the CV1600 channels to be discovered. Select the Discover IP Cameras button to continue.

Configure IP Gateway

Devices → Configure IP Gateway

Configure IP Camera Gateway: CV4IP for Testing 1

Enter ONVIF credentials

Enter ONVIF username and password for your cameras. Before continuing, make sure that you have configured your cameras to these settings.

Username:

Password:

Required IP Camera settings

- Bitrate may not exceed 4 megabits per second (MBPS),
- I-Frame Interval must be 2 seconds, and
- Frame rate (FPS) must be a multiple of 5 (e.g. 5, 10, 15, ...)

[Discover IP Cameras](#)

Assign IP Cameras

Along with any IP cameras on your network, all 16 channels of the CV1600 will appear in the discovered cameras list with the naming convention “CV1600-Cam#-(IP address)”. The Serial # of the CV1600 is displayed when a channel is selected: use this to provide the CV1600 with a DHCP reservation through your router. (It is necessary for you to perform DHCP reservation for the CV1600. Otherwise if the IP address of the CV1600 changes, you will be required to re-add the CV1600 by following these steps again.) To add a channel from a CV1600, select one channel from the discovered cameras and click Assign to bring up the Reconfigure and Verify IP Camera page.

Configure IP Gateway

Devices → Configure IP Gateway

Configure IP Camera Gateway: CV4IP for Testing 1

Enter ONVIF credentials

Assign IP Cameras

Discovered 30 cameras available to CV4IP for Testing 1. Click a camera below to select it for assignment or removal.

1) CV1600-Cam1-10-1-1-109 Available

2) CV1600-Cam2-10-1-1-109 Available

3) CV1600-Cam3-10-1-1-109 Available

4) CV1600-Cam4-10-1-1-109 Available

5) CV1600-Cam5-Availab

Camera Name:

IP Address: 10.1.1.109:8880

Model: CheckVideo/CV1600

Serial #: 00D089133BCB

Firmware: 00102-00048-00031-12359

Hardware: A3B9-0000-0000-00

CV1600-Cam1-10-1-1-109 (10.1.1.109:8880)
Found compatible profile.

[Assign](#)

[Create](#)

Click the Verify button to verify the integrity of the video stream and add the channel. It is recommended to leave the Alt. Frame Rate and Alt. Resolution at their default values. Repeat this step to add as many channels from the CV1600 as necessary.

Reconfigure and Verify IP Camera

Confirm that the camera's settings meet the following criteria:

- Bitrate may not exceed 4 megabits per second (MBPS),
- I-Frame Interval must be 2 seconds, and
- Frame rate (FPS) must be a multiple of 5 (e.g. 5, 10, 15, ...)

If not, try the camera setup link(s): <http://10.1.1.109/> (you must be on the camera's network or VPN)

Once the camera's settings have been confirmed, you may enter the RTSP Username, Password, and URL:

RTSP URL:

Alt. Resolution:

Alt. Frame Rate:

Verify

Cancel