The SX80 codec offers the flexibility to video enable any meeting space.

Cisco offers the SX80 codec as a single unit or in integrator packages.

A single unit is delivered with power cable and basic mounting parts.

An integrator package contains:

- Cisco TelePresence SX80 codec
- Cisco TelePresence Touch 10 control panel
- Cisco cameras and microphones at your choice
- Power adapters and power cables
- PoE rated Ethernet cable for Touch 10
- Custom cables
- Basic mounting parts

Display, loudspeakers, and standard cables (Ethernet and HDMI) are not included.

SX80 supports up to four simultaneous video inputs (cameras or PCs), three displays, eight microphones and three sets of stereo loudspeakers.

Room setup

Explore the Cisco Project Workplace website to find inspiration and guidelines when preparing your office or meeting room for video conferencing, http://www.cisco.com/go/projectworkplace

Documentation

Cisco Spark: Visit the Cisco Spark help site to find more information about Spark registered room systems, http://help.ciscospark.com

Other services: Visit the Cisco web site to find user guides and compliance and safety information for the product, http://www.cisco.com/go/sx-docs
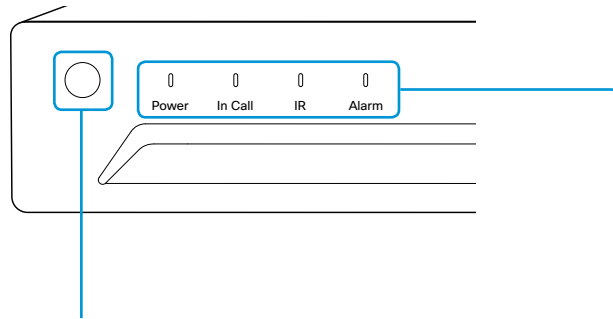
EMC class A declaration

WARNING: This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

警告

此为 A 级产品。在生活环境中，该产品可能会造成无线电干扰。在这种情况下，可能需要用户对干扰采取切实可行的措施。

Front panel

Shutdown

Power | In Call | IR | Alarm

Front panel LEDs

Power	Blinks when the system is starting up.
	Steady light when the codec is ready for use.
	Pulsates when the codec is in standby.
In Call	Steady light when in call.
IR	Not in use.
Alarm	Lights steady when a serious error occurs.

## Attach rubber feet or mount the codec in a rack

Place the codec on a plane surface, or mount it in a standard rack.

On a plane surface

Attach the provided rubber feet on the bottom of the codec. Place them in the recess in each corner.

In a standard rack

Fasten the provided rack ears to the codec using four screws. The screws are pre-mounted in the codec. Use the Allen key to remove the screws, put the rack ears in place, and fasten them with the same screws (see illustration).
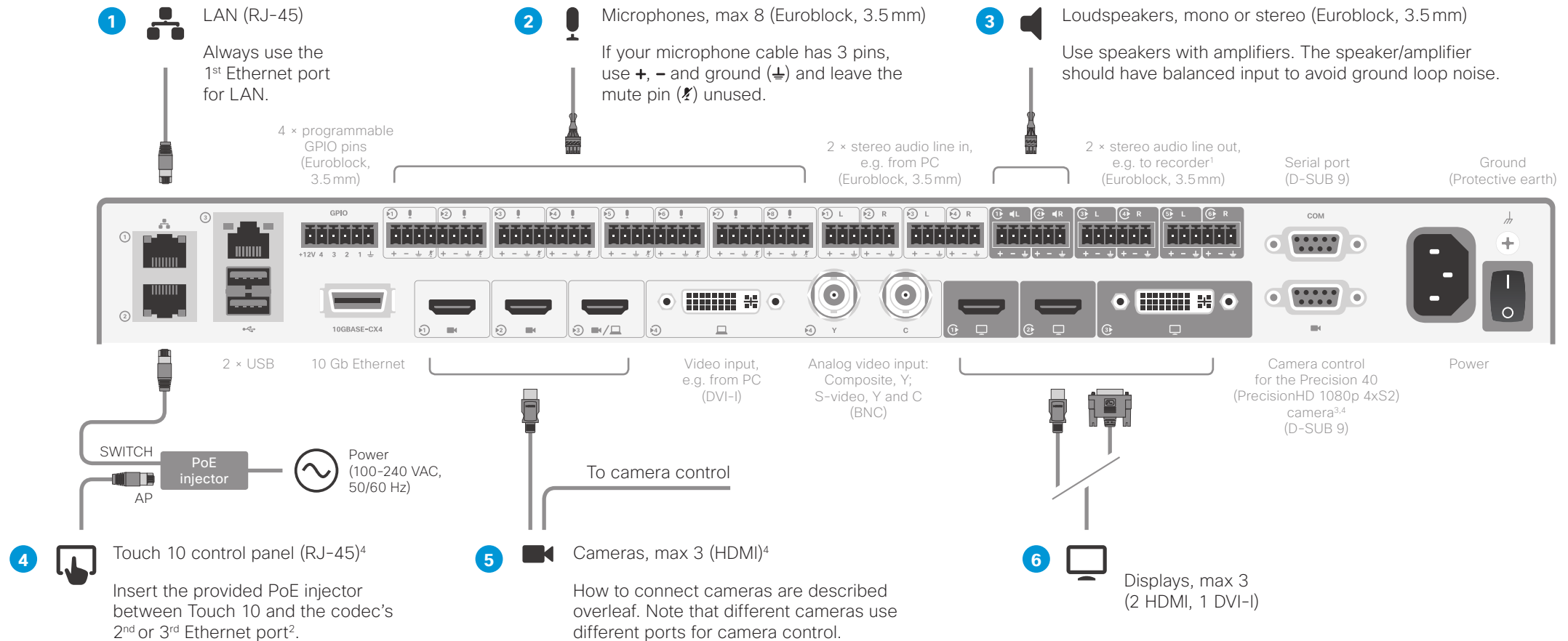
Allen key, 2 mm
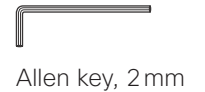
Fasten the codec with rack ears to the rack with screws matching your rack (not provided).

Connect to LAN, microphones, loudspeakers, Touch 10, cameras and displays

⚠ Make sure all units are switched off when connecting or disconnecting cables.

1 LAN (RJ-45)

Always use the
1st Ethernet port
for LAN.

2 Microphones, max 8 (Euroblock, 3.5 mm)

If your microphone cable has 3 pins,
use **+**, **−** and ground (⏚) and leave the
mute pin (🔇) unused.

3 Loudspeakers, mono or stereo (Euroblock, 3.5 mm)

Use speakers with amplifiers. The speaker/amplifier
should have balanced input to avoid ground loop noise.

4 × programmable
GPIO pins
(Euroblock,
3.5 mm)

2 × stereo audio line in,
e.g. from PC
(Euroblock, 3.5 mm)

2 × stereo audio line out,
e.g. to recorder[1]
(Euroblock, 3.5 mm)

Serial port
(D-SUB 9)

Ground
(Protective earth)

2 × USB

10 Gb Ethernet

Video input,
e.g. from PC
(DVI-I)

Analog video input:
Composite, Y;
S-video, Y and C
(BNC)

Camera control
for the Precision 40
(PrecisionHD 1080p 4xS2)
camera[3,4]
(D-SUB 9)

Power

SWITCH

PoE
injector

Power
(100-240 VAC,
50/60 Hz)

AP

To camera control

4 Touch 10 control panel (RJ-45)[4]

Insert the provided PoE injector
between Touch 10 and the codec's
2nd or 3rd Ethernet port[2].

5 Cameras, max 3 (HDMI)[4]

How to connect cameras are described
overleaf. Note that different cameras use
different ports for camera control.

6 Displays, max 3
(2 HDMI, 1 DVI-I)

[1] The audio line outputs may be configured to be used for loudspeakers.

[2] The Ethernet connector is behind the lid at the rear of Touch 10. The Ethernet cable between
Touch 10 and the PoE injector must be PoE rated (provided). The Ethernet cable between the PoE
injector and the codec is not required to be PoE rated (not provided).

[3] There is no DC power output from the camera control port. Use an external power supply for the
camera.

[4] The codec's 2nd and 3rd Ethernet ports should be used for the Touch 10 control panel, as well as for
Cisco's SpeakerTrack 60 and Precision 60 cameras (see details for the cameras overleaf).

Connect a network switch to the codec's 2nd or 3rd Ethernet port, if you need more than two ports
to support your devices.

Connect a PC (optional)

PC, max 2
(DVI-I/Euroblock or HDMI)
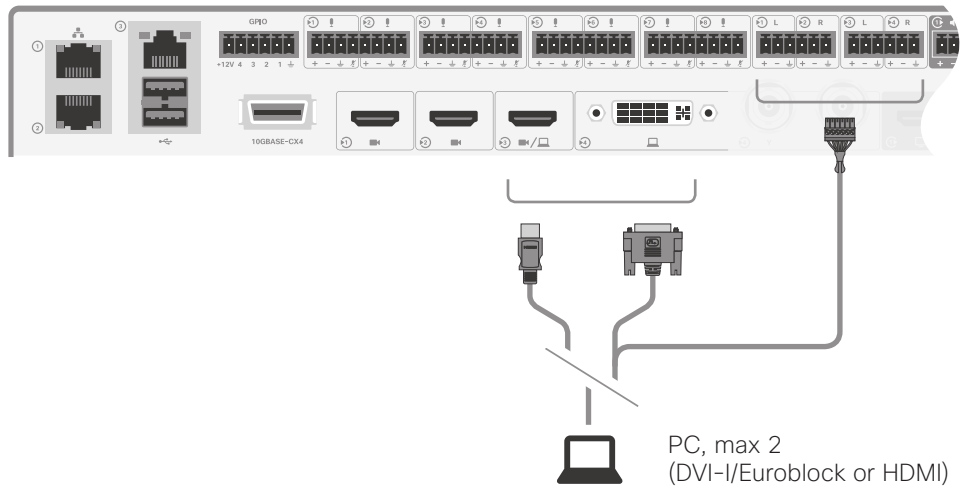
7 Connect a PC to the codec, in order to share content locally or with conference participants.

Cisco offers a PC presentation cable that connects the codec's *DVI-I* input and *Audio line in* port (Euroblock), to the PC's *VGA* and *mini jack* connectors.

Alternatively, you can use a standard HDMI cable (not provided).

Start using the system

Power switch

Power (100–240 VAC, 50/60 Hz)
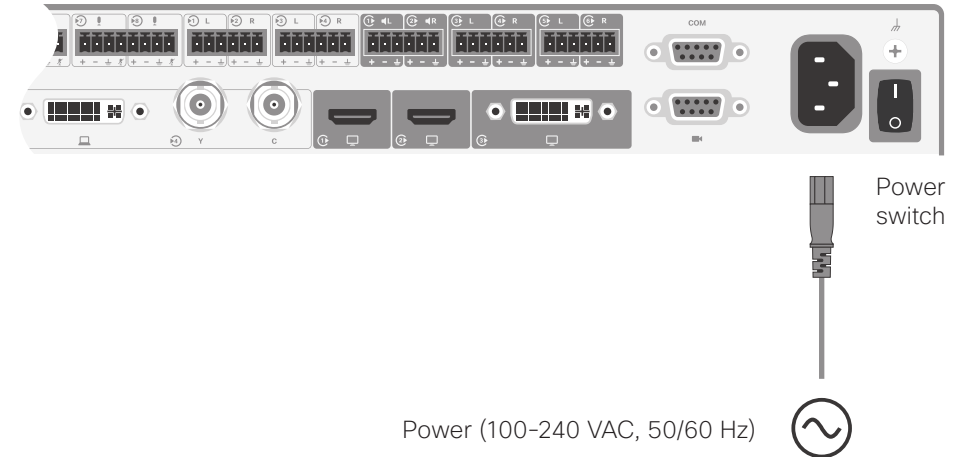
⚠ **Always use the provided power cable.**

The codec inlet or the wall socket outlet must be easily accessible after installation.

8 Connect to power, then switch on the system.

Wait while the codec starts up. Normally this takes a few minutes. It may include automatic software upgrade and restart of Touch 10 and camera(s).

Follow the instructions on screen:

· Cisco Spark: To find more information on how to get started with Spark registered systems, visit http://help.ciscospark.com and look for Getting Started articles for room systems.

· Other services: For further information on set-up and configuration, download the *Getting Started Guide* from the Cisco web site, http://www.cisco.com/go/sx-docs
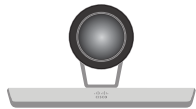
About cameras

The codec has three HDMI camera inputs, and can therefore support up to three cameras.

Cisco provides the following cameras:
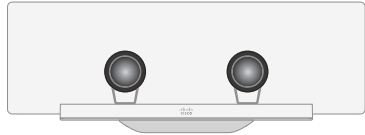
Cisco TelePresence SpeakerTrack 60
Based on two Cisco TelePresence Precision 60 cameras and a microphone panel for advanced speaker tracking.

Cisco TelePresence Precision 60
A full HD camera with 1080p60 resolution, 20x total zoom, and wide angle view.

Cisco TelePresence Precision 40 (Cisco TelePresence PrecisionHD 1080p 4xS2)[5]A full HD camera with 1080p60 resolution and 4x optical zoom.

You can use any combination of these cameras, as long as the maximum number of cameras does not exceed three[6].

See how to connect the cameras on the following pages.

For more details about the Cisco cameras, refer to camera guides that are available at
http://www.cisco.com/go/camera-docs

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[5] This camera is sold under two names. There is no difference.

[6] Note that Cisco TelePresence SpeakerTrack 60 is composed of two cameras.

[7] Note that the camera surface is hot when the camera is in operation.

Connect Cisco TelePresence SpeakerTrack 60

Power adapter
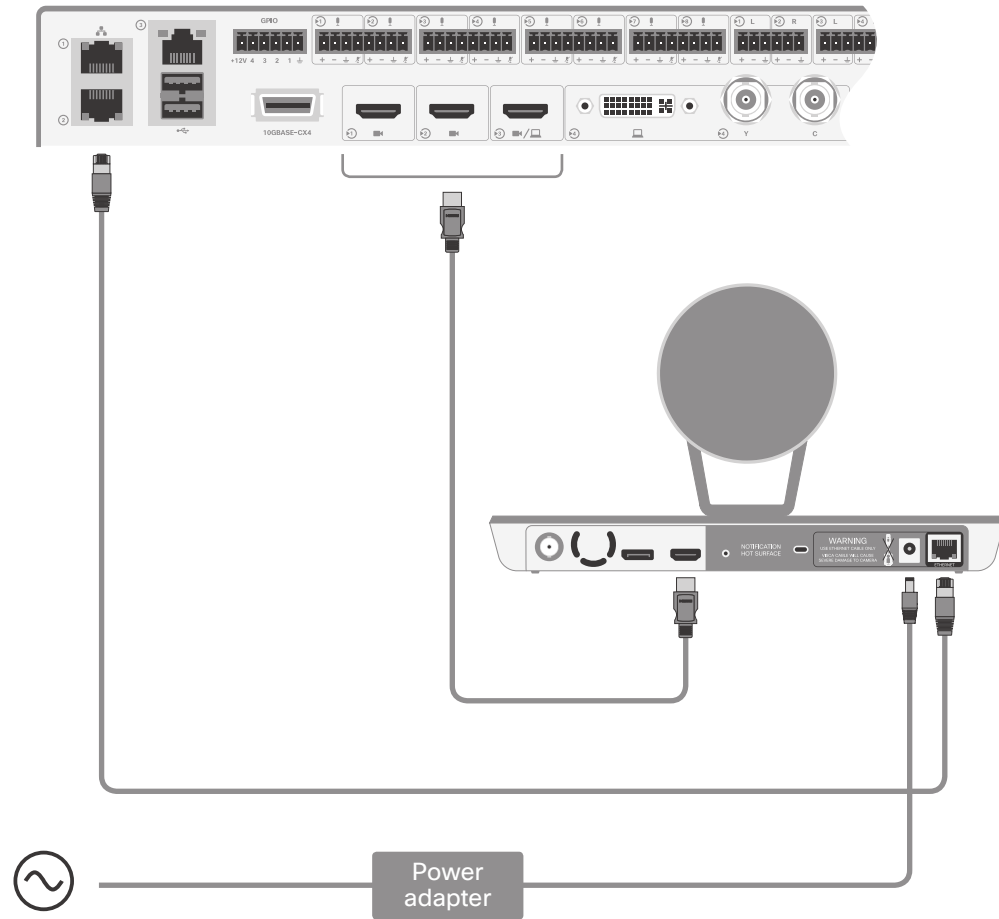
Power
(100-240 VAC, 50/60 Hz)
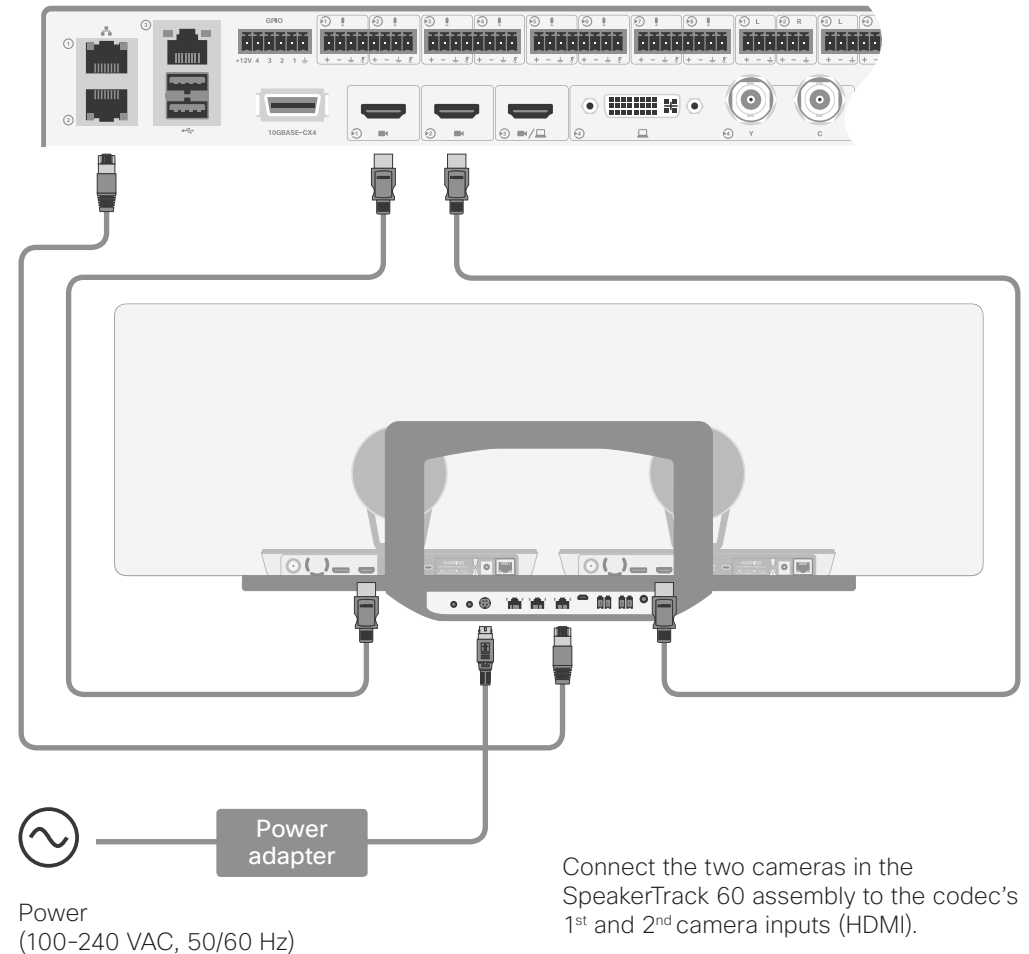
⚠ Always use the provided power cable and adapter (12 V_{DC}, minimum 6.5 A).

Connect the two cameras in the SpeakerTrack 60 assembly to the codec's 1st and 2nd camera inputs (HDMI).

Also connect SpeakerTrack 60 to the codec's 2nd or 3rd Ethernet port, and to power.[7]

Refer to the installation guide that comes with SpeakerTrack 60 for further information about camera assembly and cabling.

Connect Cisco TelePresence Precision 60
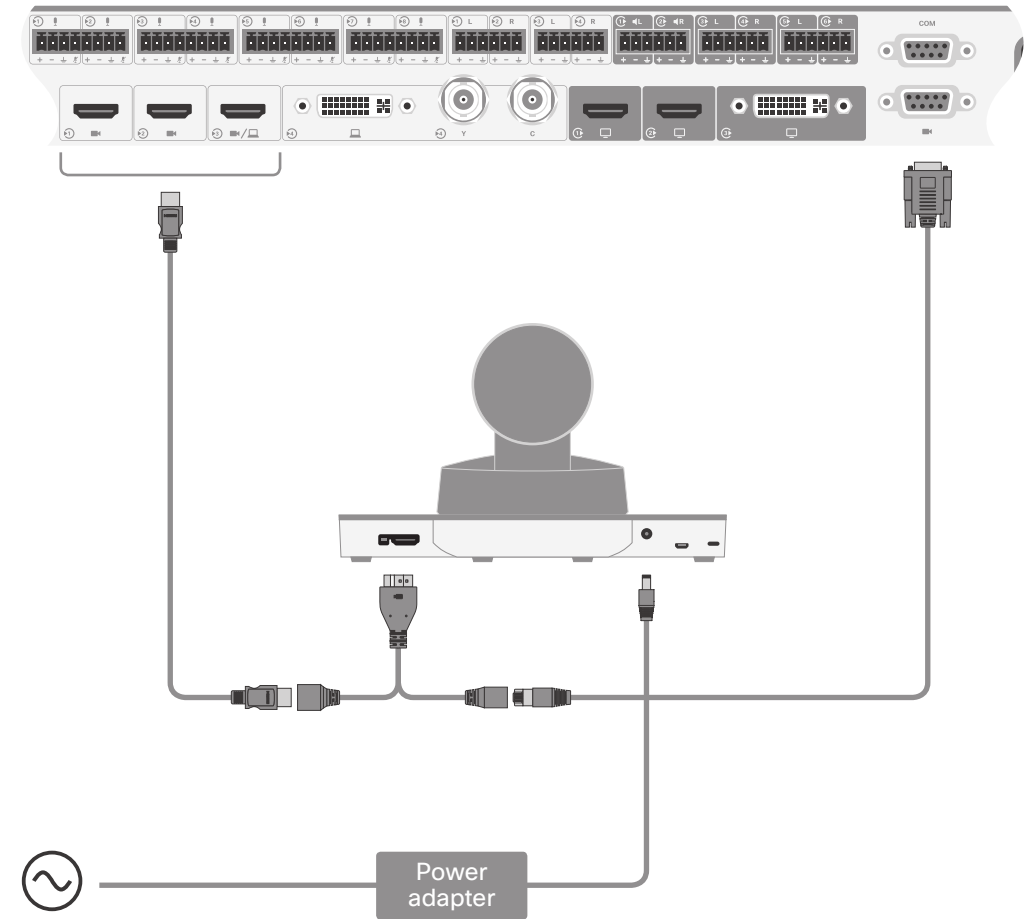

Power
(100–240 VAC, 50/60 Hz)

⚠ Always use the provided power cable and adapter (12 V_{DC}, minimum 3 A).

Connect the camera to one of the codec's camera inputs (HDMI).

Cisco recommends using the 1st camera input for the main camera.

Also connect the camera to the codec's 2nd or 3rd Ethernet port, and to power.[7]

Connect Cisco TelePresence Precision 40, (Cisco TelePresence PrecisionHD 1080p 4xS2)[5]

Power
(100–240 VAC, 50/60 Hz)

⚠ Always use the provided power cable and adapter (12 V_{DC}, minimum 2 A).

Connect the camera to one of the codec's camera inputs (HDMI).

Cisco recommends using the 1st camera input for the main camera.

Also connect the camera to the codec's dedicated camera control port (D–SUB 9), and to power.