

6.0 System Connections

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6.1 System Power Connections

The ILA-12K has the following AC power requirements:

Table 6-1 AC Power requirements per country

Country	Voltage	Current	Frequency	
United States	187-218 V	60 A	60 Hz	3-phase 5 wire
Europe	380-416 V	32 A	50 Hz	3-phase 5 wire

Figure 6-1 illustrates a diagram of the AC Power plug terminal. Ensure the AC Circuit Breaker is in the OFF position before plugging the AC Power Plug into an AC source.

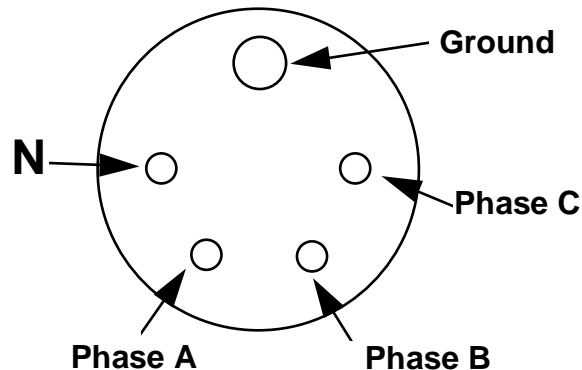


Figure 6-1 AC Power Plug Terminals.

NOTE: The ILA-12K draws approximately 44 amps at 208 volts (23 amps at 400V in Europe). No more than one projector should be connected to the one power source.

6.2 Signal Connections

The ILA-12K accommodates separate red, green and blue (RGB) analog image signals. The sync signals for RGB analog sources can be separate horizontal and vertical, included with the green analog signal (sync on green), or composite (horizontal and vertical combined). If the sync signal is composite, it will be connected to the horizontal sync connection.

Composite signals can be received only with the optional Ultra Digital Processor (UDP) Video Processor PCB. Refer to the UDP User's Guide for information concerning composite image formats.

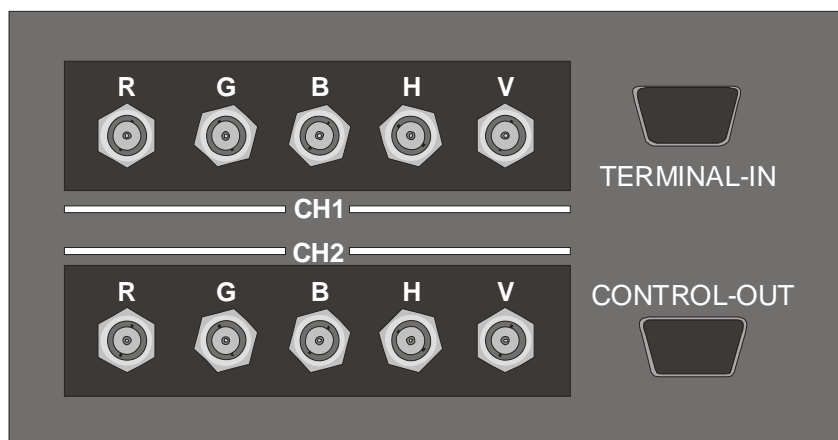


Figure 6-2 Patch panel on rear panel of Projection Module.

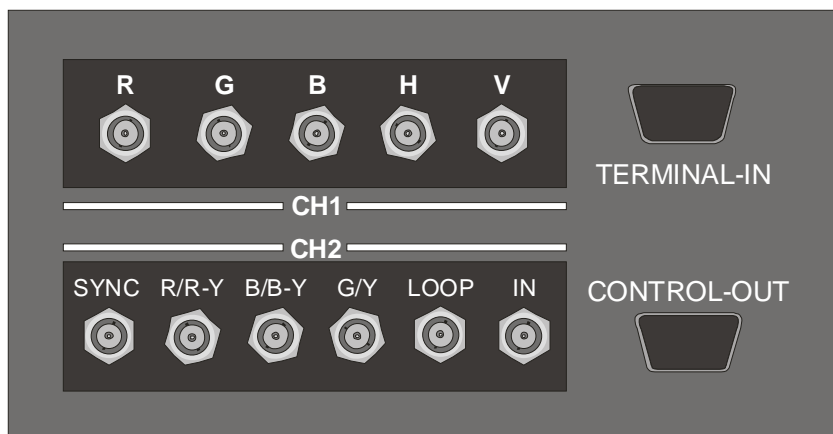


Figure 6-3 Patch panel for the optional Ultra Digital Processor (UDP).

6.3 Terminal or Tethered Remote

The TERMINAL-IN jack is a RS-232 control port used to connect the Tethered Technician Remote or a VT100 Control Terminal (or PC or Laptop computer used as a terminal).

The CONTROL-OUT port is identical to the TERMINAL-IN port except that it can not be used for Import/Export functions.

6.4 Powering ON the Projector

After making all the power, signal, and control connections, the projector is ready to Power ON. The projector can be powered ON by the Tethered Remote Control or by a PC or Laptop computer, through the RS-232 TERMINAL-IN or CONTROL-OUT ports.

To Power ON the projector:

1. Set the Main AC Circuit Breaker on the front panel of the projector to ON. Nothing should happen at this point (*see Figure 6-4*).
2. In the Circuit Breaker Panel on the front panel of the projector, there are three circuit breakers. From top to bottom these circuit breakers energize the following components:
 - ❑ Control Panel - 15-Amp (50-Amp, Europe), monitors and controls airflow and temperature for the Arc Lamp and ILA[®] devices) and ventilation fans. The ventilation fans and the Arc Lamp blower will energize when this circuit breaker is switched on.
 - ❑ Low Voltage Power Supply - 10-Amp (50-Amp, Europe), powers the System Controller PCB and the High Voltage Power Supply.
 - ❑ Arc Lamp Power Supply - 50-Amp (50-Amp, Europe), powers the Arc Lamp Power Supply that ignites and powers the Arc Lamp.
3. With the Tethered Remote Control, press both the POWER button simultaneously or on the computer press Ctrl-P to Power ON the projector. The Arc Lamp will ignite.

NOTE: Allow about 30 seconds for the projector to generate an image. Allow a minimum of 15 minutes for the projector to stabilize before performing any adjustments.

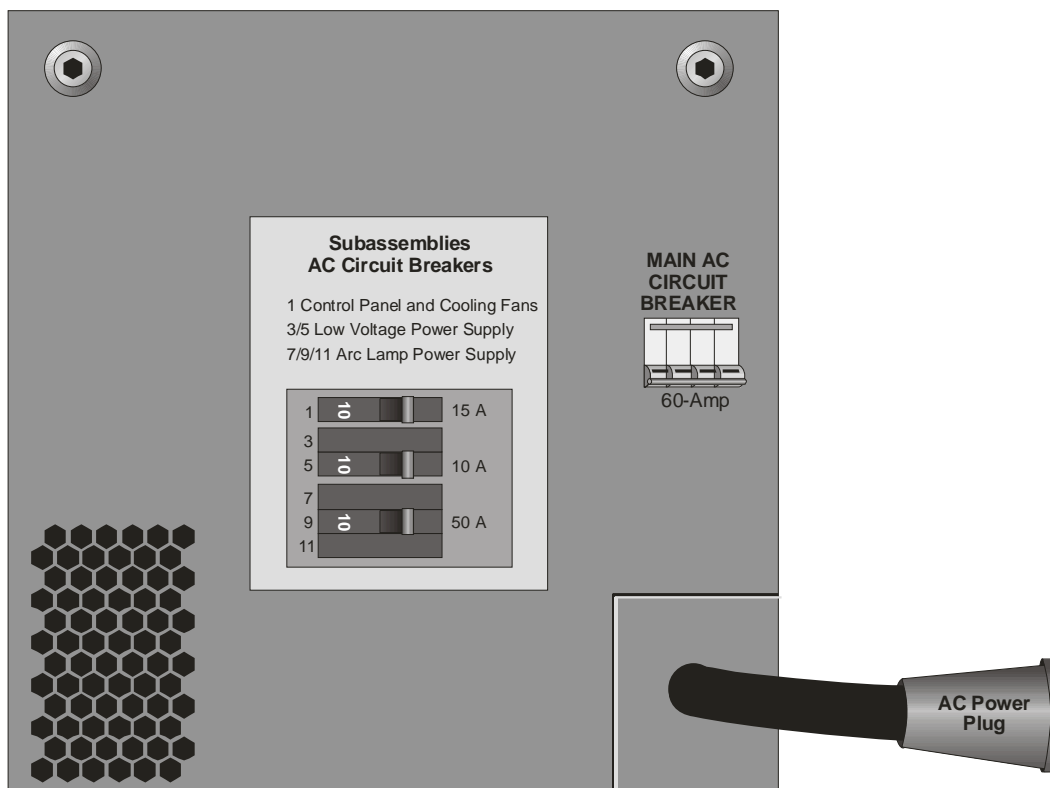


Figure 6-4 Projection Module front panel showing AC Circuit Breakers

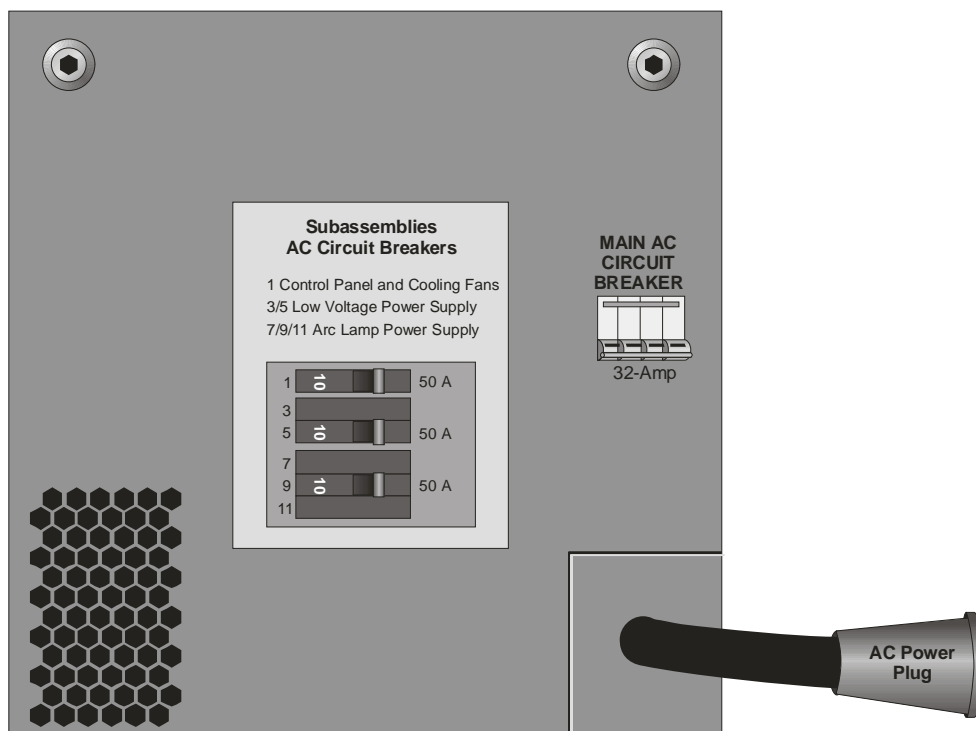


Figure 6-5 Projection Module front panel showing AC Circuit Breakers (International).