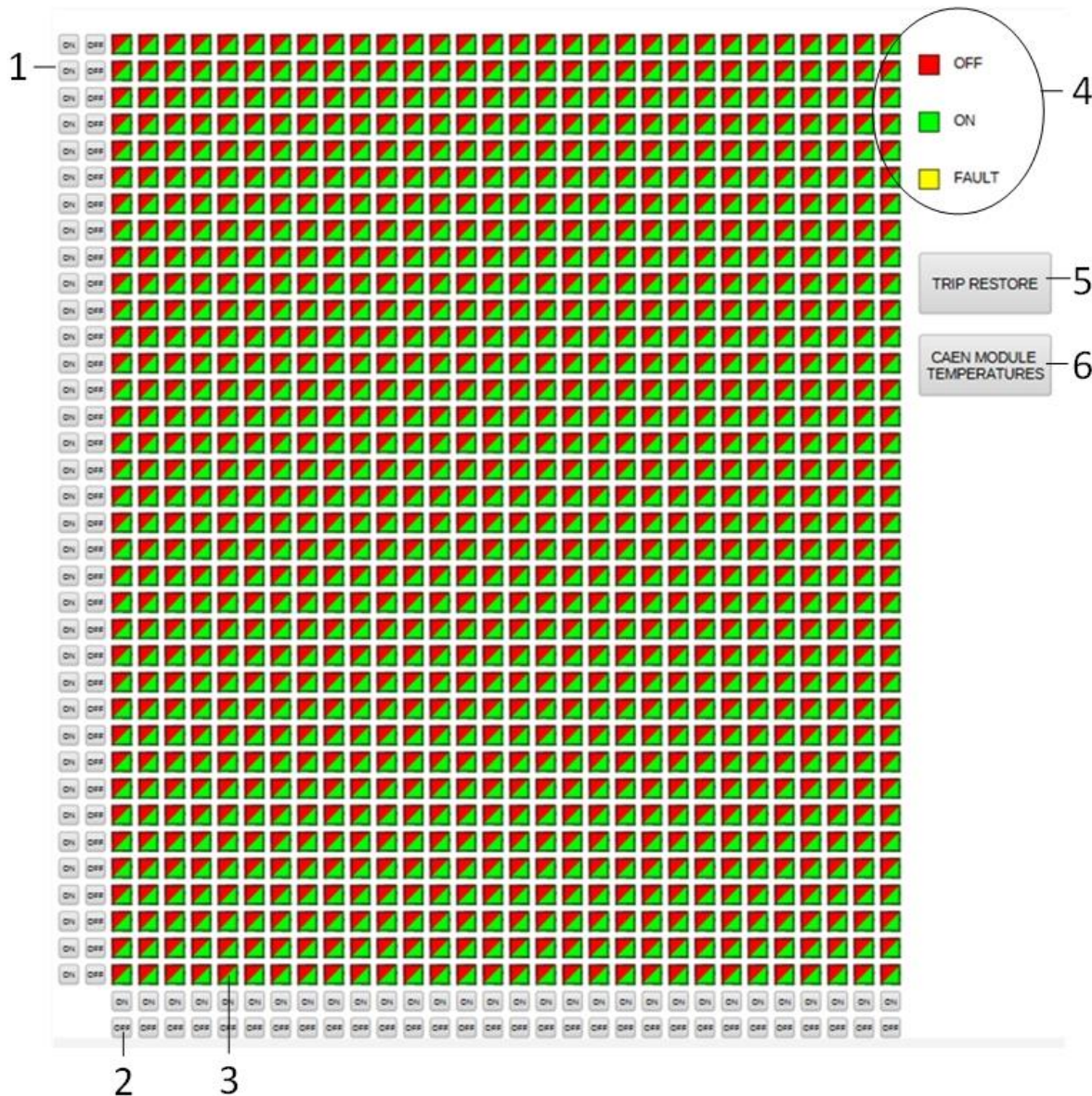


## Overview Screen

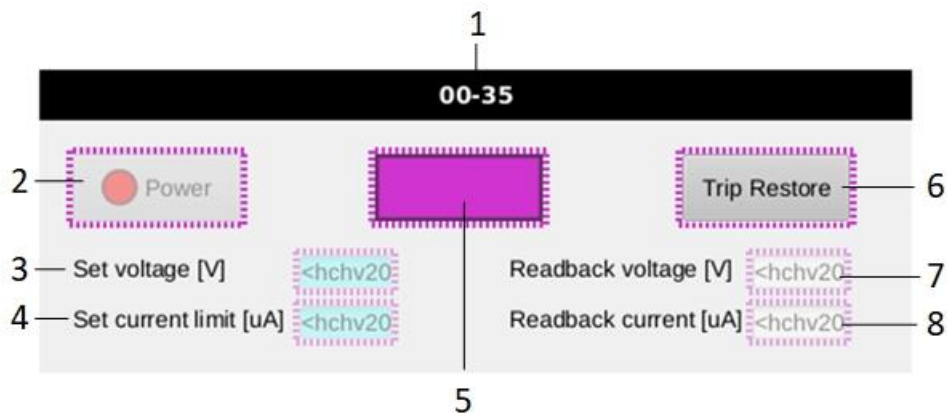
The overview screen provides the status of all NPS high voltage channels. It is laid out in a 36 x 30 grid, the same layout as the crystal array. Each column represents a module and each box in the column a high voltage channel. Each numbered item is explained below.



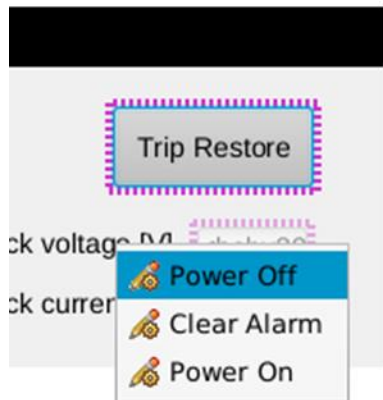
1. Clicking a gray ON or OFF button on the left side turns the high voltage on or off for the entire row.
2. Clicking a gray ON or OFF button on the bottom turns the high voltage on or off for the entire column, (or module).
3. Each small square is a status indicator for a high voltage channel and will be red, green, or yellow (see #4). The square is also clickable, opening the PMT status screen (page 2).
4. The color of a channel indicator in #3 will be one of these three colors.
5. Clicking the gray TRIP RESTORE rectangle opens a pop-up screen used to power-cycle high voltage channels (page 3), such as in the case of a channel trip.
6. Clicking the gray CAEN MODULE TEMPERATURES rectangle opens a pop-up screen that displays the internal temperature of each CAEN high voltage module (page 4).

## PMT Status Screen

The PMT status screen has indicators and inputs for a single PMT.



1. Indicates the PMT location in a column-row format.
2. Clicking the gray Power rectangle turns power on, indicated by a green circle, or off, a red circle.
3. Entering a value into the blue rectangle sets voltage. If a value is entered over the limit, the value will be reduced to the limit value.
4. Entering a value into the blue rectangle sets the current limit.
5. Color of rectangle indicates PMT status—red = off, green = on, orange = trip, yellow = mismatch (set voltage  $\neq$  readback voltage by 65 V), and magenta = OVTemp (*module's* internal temperature  $> 65^{\circ}\text{C}$ ).
6. Clicking the gray Trip Restore rectangle opens a drop-down menu, shown below, to cycle power.

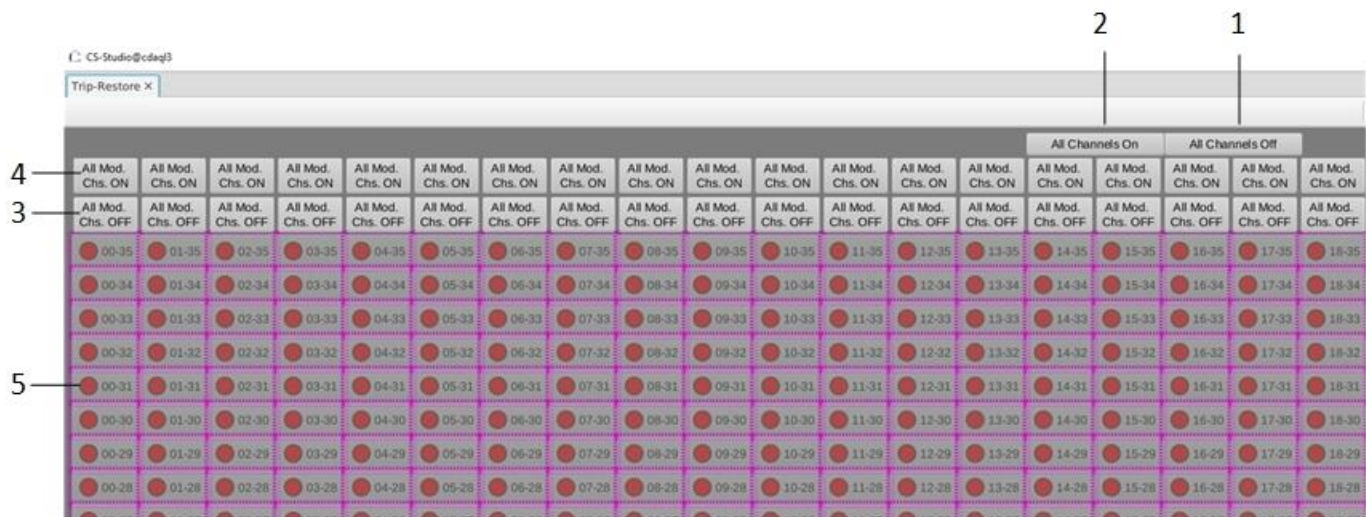
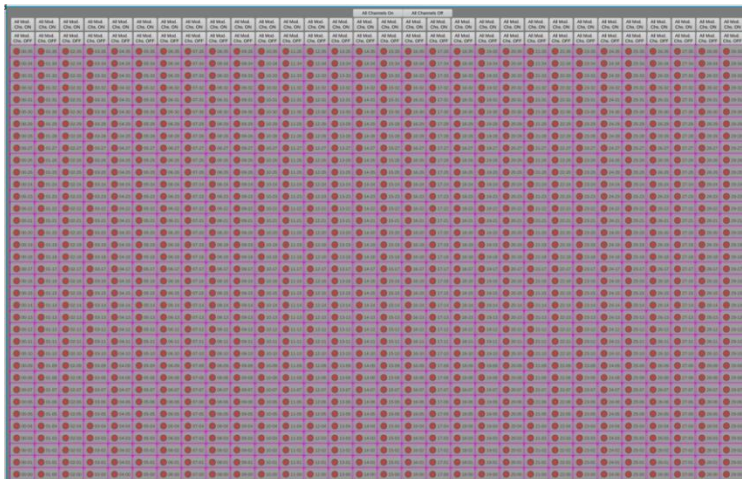


Each item from the drop-down menu must be clicked, in order, one at a time. Trip Restore must be clicked between each menu item, i.e. click Trip Restore, click Power Off, click Trip Restore, click Clear Alarm, etc.

7. Displays the readback voltage.
8. Displays the readback current.

## Trip Restore Screen

The trip restore screen is large (shown below), so only a partial screen is used in the explanation. Each column is a single module.



To restore all channels, in all modules, in both crates, first click #1, the gray All Channels Off rectangle, and then click #2, the gray All Channels On rectangle.

To restore channels in a single module, first click #3, the gray All Mod. Chs. OFF rectangle, and then click #4, the gray All Mod. Chs ON rectangle.

5. Clicking a single numbered rectangle turns that channel on or off.



## CAEN Module Temperatures

The CAEN module temperatures screen is divided into two sections, crate 1 and crate 2. Each row of a section refers to one module.

CAEN MODULE TEMPERATURES

**CRATE 1**

<input type="checkbox"/>	ON	SLOT 0	<hchv2	OFF
<input type="checkbox"/>	ON	SLOT 1	<hchv2	OFF
<input type="checkbox"/>	ON	SLOT 2	<hchv2	OFF
<input type="checkbox"/>	ON	SLOT 3	<hchv2	OFF
<input type="checkbox"/>	ON	SLOT 4	<hchv2	OFF
<input type="checkbox"/>	ON	SLOT 5	<hchv2	OFF
<input type="checkbox"/>	ON	SLOT 6	<hchv2	OFF
<input type="checkbox"/>	ON	SLOT 7	<hchv2	OFF
<input type="checkbox"/>	ON	SLOT 8	<hchv2	OFF
<input type="checkbox"/>	ON	SLOT 9	<hchv2	OFF
<input type="checkbox"/>	ON	SLOT 10	<hchv2	OFF
<input type="checkbox"/>	ON	SLOT 11	<hchv2	OFF
<input type="checkbox"/>	ON	SLOT 12	<hchv2	OFF
<input type="checkbox"/>	ON	SLOT 13	<hchv2	OFF
<input type="checkbox"/>	ON	SLOT 14	<hchv2	OFF
<input type="checkbox"/>	ON	SLOT 15	<hchv2	OFF

**CRATE 2**

<input type="checkbox"/>	ON	SLOT 0	<hchv2	OFF
<input type="checkbox"/>	ON	SLOT 1	<hchv2	OFF
<input type="checkbox"/>	ON	SLOT 2	<hchv2	OFF
<input type="checkbox"/>	ON	SLOT 3	<hchv2	OFF
<input type="checkbox"/>	ON	SLOT 4	<hchv2	OFF
<input type="checkbox"/>	ON	SLOT 5	<hchv2	OFF
<input type="checkbox"/>	ON	SLOT 6	<hchv2	OFF
<input type="checkbox"/>	ON	SLOT 7	<hchv2	OFF
<input type="checkbox"/>	ON	SLOT 8	<hchv2	OFF
<input type="checkbox"/>	ON	SLOT 9	<hchv2	OFF
<input type="checkbox"/>	ON	SLOT 10	<hchv2	OFF
<input type="checkbox"/>	ON	SLOT 11	<hchv2	OFF
<input type="checkbox"/>	ON	SLOT 12	<hchv2	OFF
<input type="checkbox"/>	ON	SLOT 13	<hchv2	OFF
<input type="checkbox"/>	ON	SLOT 14	<hchv2	OFF
<input type="checkbox"/>	ON	SLOT 15	<hchv2	OFF

12345

1. The square will be green if any channel in the module is on, or red if all channels are off.
2. Clicking the ON gray rectangle turns the module on.
3. Location of module in crate.
4. Displays the internal temperature of the module.
5. Clicking the OFF gray rectangle turns the module off.