

## UCI METERS

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**Programation.io UCI Meters** ✕

Options by Programation.io v1.0.0

Minimum Response Threshold  Allow LED to hide  Threshold  Preview Mode

Metering

Type  Response  Hold Time

LED Color Settings

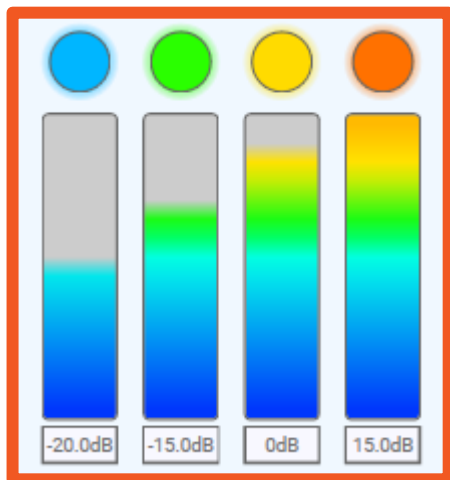
+20dB 0dB

Standard Multi-Color ☒ Custom Color Range ☐

Bottom		Turn-On Point	Top	
Threshold	<input type="text" value="-60.0dB"/>	Threshold <input type="text" value="-18.0dB"/>	Threshold	<input type="text" value="0dB"/>
	<input type="radio"/>			<input checked="" type="radio"/>
Red	<input type="text" value="124"/>		Red	<input type="text" value="0"/>
Green	<input type="text" value="124"/>		Green	<input type="text" value="255"/>
Blue	<input type="text" value="124"/>		Blue	<input type="text" value="0"/>

Preview Trim Meter LED

<input type="text" value="0dB"/>	1	<input type="text" value="0dB"/>	<input type="text" value="-20.9dB"/>	<input type="text" value=""/>	<input type="radio"/>
<input type="text" value="0dB"/>	2	<input type="text" value="0dB"/>	<input type="text" value="-16.1dB"/>	<input type="text" value=""/>	<input checked="" type="radio"/>



## UCI METERS

is a new take on the old school signal presence LED meter found on many analog mixer channel strips. A single LED control changes colors in relation to the input meter value. You can define the bottom end color and threshold, the upper end color and threshold, and the point at which the LED changes from off to on (with a glow effect).

Additionally, the LED can be hidden below a certain level threshold or be configured to be not respond under the minimum threshold to block out any analog noise that may be present.

Color options for the LED can be multi-colored, either following the color gradient of the standard meter, or skewed in the upper end to show read once the signal reaches 0dBFS. A custom, two-point color gradient may also be defined.

Both the linear meter and the LED can be overridden with Preview Mode, with each channel individually controllable with the desired preview level. This allows UCIs to be screenshotted or verified without needing a core to pass actual audio signal.

UCI Meters replaces the LED Meter plugin but now allows audio signals to be connected directly to the plugin without needing to do control links. Audio even passes through the plugin to output pins to allow the plugin to be wired in-line with any signal chain. The number of channels is definable allowing for one block to handle multiple meters and LEDs for one or more UCIs.

# Properties

## Channel Count

defines the number of discrete audio channels and associated meters, ranging from 2 to 512.

## Minimum Response Threshold

a `level` knob that sets the minimum input signal level needed to show response on all meters.

## Hide Enable

a `toggle` button that determines whether the LEDs should be invisible if the input signal level is below the *Hide Threshold*.

## Hide Threshold

a `level` knob from -120dB to 20dB that sets the point at which the output LEDs will become invisible.

## Preview Mode

a `toggle` button that sets Preview Mode.

## Meter Type

a `combo` box that changes the metering ballistics between Peak and RMS.

## Meter Response Time

a `value` knob from 10ms to 1s that sets the averaging of the meter ballistics.

## Hold Time

a `value` knob from 10ms to 10s that sets the hold time of the meter.

## Multi Color +20dB

a `radio-style` `toggle` that sets the output led to use the multi-color gradient with red being +20dBFS.

## Multi Color 0dB

a `radio-style` `toggle` that sets the output led to use the multi-color gradient with red being 0dBFS.

## Custom Color

a radio-style toggle that sets the output led to use the custom color gradient settings.

## Bottom Threshold

a level knob from -100dB to 0dB that determines the minimum signal level that will produce the bottom-end color of the gradient.

## Bottom Preview

a sample LED that shows the color and state of the bottom-end color settings and the *On Threshold*.

## Bottom Red, Bottom Green, Bottom Blue

integer knobs from 0 to 255 that control the component colors of the bottom-end color of the gradient

## Top Threshold

a level knob from -100dB to 0dB that determines the maximum signal level that will produce the top-end color of the gradient

## Top Preview

a sample LED that shows the color and state of the top-end color settings and the *On Threshold*.

## Top Red, Top Green, Top Blue

integer knobs from 0 to 255 that control the component colors of the top-end color of the gradient

## Turn-On Threshold

a level knob from -100dB to 0dB that determines the signal level value which will cause the *Output LED* to glow and change its state from false to true.

## Preview Level

a level knob from -120dB to 20dB that sets the meter and LED level when in Preview Mode.

# Controls

## Trim

a `level` knob from  $-40\text{dB}$  to  $+40\text{dB}$  that applies a mathematical offset to the incoming signal level to be used for presentation on the output meter and LED. This is useful when the system gain structure is based on a lower value due to the nature of working in dBFS but you want the meters to appear to have a higher gain. E.g. Your gain structure may be  $-20\text{dB}$  but you want the meters to read as  $0\text{dB}$  so the colors appear in the green region of the color gradient.

## Meter

a `meter` that shows the channel signal level as a result of either the Preview Level, or the sum of the actual input signal and the Trim.

## LED

an `LED` that indicates the signal level by representation of color, according to the chosen color settings.