

# IFB HD Gamma tuning process

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## Basic Setup

Ensure your projector brightness is correctly set up before tuning the gamma control. So iterate over brightness and contrast to get those as correct as possible with the new card and your standard source.

Note: Make sure you adjust these with the gamma set to minimum (screw fully clockwise).

If your brightness (black level) is not right, you will not see any effect of the gamma control, as it only affects low IRE levels.

If possible, before installing card, turn down gamma to minimum with the multi-turn gamma control screw accessible on the back of the card. Minimum level is set when the screw is turned fully clockwise, which can be up to 25 turns.

For cards with the IR sensor, it is recommended to turn the gamma screw fully counterclockwise (max level) and to use the IR controlled steps to manage the levels from there.

## Adjustment with Screw – Using Gray ramp patterns

On models without the IR, the screw is the only way to adjust gamma. So put on a test pattern DVD like AVIA, and bring up a gray ramps image that will give you at least four or five gradations of dark grey to black.

Use the screw to set the gamma until you can distinguish each box individually, and black is still black.

Go to a Pluge pattern to ensure your black level (brightness) is still correct.

## Adjustment with IR – Using Gray ramp patterns

Basically, the IR driven ‘adjustment’ is 20 steps of Gamma reduction from where the card screw is set. So the screw controls ‘max’ correction.

If the max – 20 steps is still too much correction, use the screw to lower what ‘max’ correction is.

The yellow light on the card will blink when sensing IR commands it recognizes. The yellow light will stay on when the IR gamma ‘control’ is at max (= screw setting). This lets you know when one end is reached, then you can count down clicks (up to 20) from there.

To set, follow instruction above for using the ramp patterns, but use the IR control to manage the setting.

Start with the IR Gamma set to max, by pressing the UP bottom for gamma on the remote until the yellow light is on all the time.

Using the Down button on the remote, set the Gamma so ramps are smooth and low-level detail is barely visible.

If you used 20 clicks down and the gamma is still too high, you need to lower the screw setting by turning it clockwise (5 to 10 turns), and start over by setting the IR gammas back to max.

Season to taste