# FB3-QS

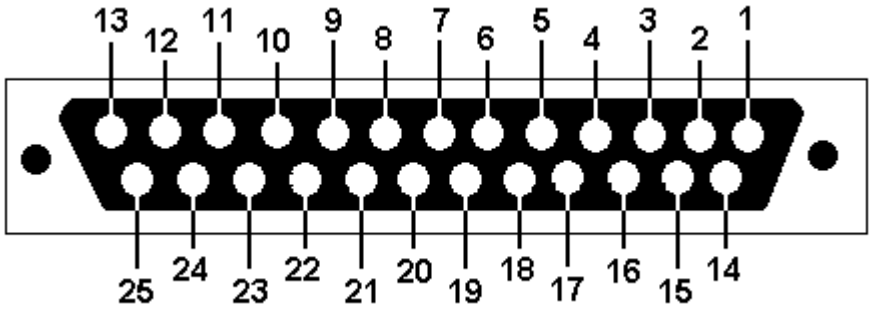
The Pangolin FB3-QS laser controller is a small, palm-sized box connects between a USB port on your PC and the ILDA input connector on your laser projector.

FB3-QS can use up to 500 mili-ampere. If you use an USB hub to connect the FB3-QS to your computer, make sure that you use a **powered USB hub**.

Dimensions : 4.2 x 2.8 x 1.3 in (110 x 71 x 33 mm)



## ILDA DB-25F pinouts




| Signal name | Pin | Notes |
|---|---|---|
| X+ | 1 | -5V to +5V |
| Y+ | 2 | -5V to +5V |
| Intensity/Blanking + | 3 | 0V to +5V |
| Interlock A | 4 | |
| Red+ | 5 | 0V to +5V |
| Green+ | 6 | 0V to +5V |

| Signal name | Pin | Notes |
|---|---|---|
| Blue+ | 7 | 0V to +5V |
| Deep blue + | 8 | 0V to +5V |
| Yellow | + 9 | 0V to +5V |
| Cyan + | 10 | 0V to +5V |
| Z+ | 11 | |
| Not connected | 12 | |
| Shutter | 13 | 0V to +5V |
| X- | 14 | -5V to +5V |
| Y- | 15 | -5V to +5V |
| Intensity/Blanking - | 16 | 0V |
| Interlock B | 17 | |
| Red- | 18 | 0V |
| Green- | 19 | 0V |
| Blue- | 20 | 0V |
| Deep blue - | 21 | 0V |
| Yellow - | 22 | 0V |
| Cyan - | 23 | 0V |
| Z- | 24 | |
| Ground | 25 | Cable shield |

# LED light codes

The front LED next to the USB connector indicates the current function the FB3-QS is executing:

| Led Color | status |
|---|---|
| Solid Green | Powered (connected to USB but no connection to QuickShow) |
| Solid Yellow | Connected (to the Quickshow or other software), but offline |
| Red Slow Flash | Online, but output inactive (dummy stream, no cue active) |
| Red Fast Flash | Online and output active (at least one cue active) |
| Yellow Slow Flash | Online but output disabled (either invalid license, or some other fault) |
| Solid White | Firmware update in progress |

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