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Newport 26-pin combiner Tech Report

This document is for reference only. Before connecting any laser diode, read through this entire document and please confirm that these connections are correct and that they will fit your application.

There are two cards interfacing to each combination board (we'll refer to these as Card a, and Card b). Each Dual LDD card has two laser channels, we'll refer to these as Laser A and Laser B).

Interlock connector: short pins 9 and 18 of combo HD 26-pin connector.
Card a interlock Laser A: short pins 1 to 19 and pins 2 to 20 on combo HD 26-pin connector.
1-19 = Laser A Anode 2-20 = Laser A Cathode
Card a interlock Laser B: short pins 3 to 21 and pins 4 to 22 on combo HD 26-pin connector.
3-21 = Laser B Anode 4-22 = Laser B Cathode
Card b interlock Laser A: short pins 5 to 23 and pins 6 to 24 on combo HD 26-pin connector.
5-23 = Laser A Anode 6-24 = Laser A Cathode
Card b interlock Laser B: short pins 7 to 25 and pins 8 to 26 on combo HD 26-pin connector.
7-25 = Laser B Anode 8-26 = Laser B Cathode

Combination 26-pin connector pinout (note: a = 'Card a' and b = 'Card b', so '16b' is pin 16 on card b):

Combo

1: 8a, 17a (Vpow)
2: 7a (A TOP)
3: 4a, 13a (Vpow)
4: 3a (B TOP)
5: 16b (A LD Anode)
6: 15b (A LD Cathode)
7: 12b (B LD Anode)
8: 11b (B LD Cathode)
9: 9a, 9b (interlock)
10: 24a (A PD 2 Anode)
11: 23a (A PD 2 Cathode)
12: 20a (B PD 2 Anode)
13: 19a (B PD 2 Cathode)
14: 24b (A PD 2 Anode)
15: 23b (A PD 2 Cathode)
16: 20b (B PD 2 Anode)
17: 19b (B PD 2 Cathode)
18: 18a (Digital Gnd)
19: 16a (A LD Anode)
20: 15a (A LD Cathode)
21: 12a (B LD Anode)
22: 11a (B LD Cathode)
23: 8b, 17b (Vpow)
24: 7b (A TOP)
25: 4b, 13b (Vpow)
26: 3b (B TOP)

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Built-in jumpers:
a & b: 1-2-10, 5-6-14 (Analog Ground to B BOT and Analog Ground to A BOT)
b: 9-18 (card 2 interlock connection)

Here is how the above is annotated:

Combo Pin: # followed by 'a' or 'b', which is followed by '(text)'

(a/b refers to card 1 or card 2, if you are looking at the HD 26 pin connector that connects to the cards in slot 1 and slot 2 of the mainframe, then 'a' refers to slot 1 and 'b' refers to slot 2. 'A' and 'B' refer to LD 1 and 2 of each 85xxD card.)

(this text came from page 40 of the Newport 8016/9008/9016 manual that can be downloaded from the website)

Summary:

Connector's connections when everything is connected: TOP to LD cathode, Vpow to LD anode, and Analog Gnd to BOT

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