



The SDEC-4500 comprises two units. Both the SDEC-4500P and SDEC-4500X are required for the digital equalizer to function properly in the JBL Synthesis<sup>®</sup> system. **The SDEC-4500P handles all inputs as well as the outputs for the Subwoofer channels while the SDEC-4500X handles all outputs for the Left, Center, Right, Side and Rear Surround channels.**

A complete manual can be downloaded from [www.JBLSYNTHESIS.com](http://www.JBLSYNTHESIS.com).

Please be sure to connect both units correctly according to the input/output Assignments chart in addition to the information provided in the SDEC-4000 and SDEC-3000 installation manual.

Surround Processor to SDEC4500P Inputs		
S4500XLRIC Number	Channel	SDEC4500P
1	Left Front	A1
2	Right Front	A2
3	Center Front	A3
4	Left Side	A4
5	Right Side	B1
6	Left Rear	B2
7	Right Rear	B3
8	Subwoofer	B4
*	Aux In 1 Left	C1
*	Aux In 1 Right	C2
*	Aux In 2 Left	C3
*	Aux In 2 Right	C4
SDEC4500P Outputs to Amplifiers		
23	Subwoofer 1	D1
24	Subwoofer 2	D2
25	Subwoofer 3	D3
26	Subwoofer 4	D4

SDEC4500X Outputs to Amplifiers		
S4500XLRIC Number	Channel	SDEC4500X
9	Left Front (Low Bi-Amp)	A1
10	Left Front (Hi Bi-Amp / NC in Full Range)	A2
11	Right Front (Low Bi-Amp)	A3
12	Right Front (Hi Bi-Amp / NC in Full Range)	A4
13	Center Front (Low Bi-Amp)	B1
14	Center Front (Hi Bi-Amp / NC in Full Range)	B2
15	Left Side 1	B3
16	Right Side 1	B4
17	Left Side 2	C1
18	Right Side 2	C2
19	Left Side 3	C3
20	Right Side 3	C4
21	Left Rear	D1
22	Right Rear	D2
*	Aux Out L	D3
*	Aux Out R	D4

\* Additional Interconnects can be purchased by adding the S3000IC

**Connect both units together directly by using the BLU link IN to BLU link OUT for digital audio connection. Connect to an Ethernet Switch for calibration and setup using the Ethernet connection.**

**SELECTING FULL-RANGE OR BI-AMPED CONFIGURATION**

Please note: Only Method One can be done using the SDEC4500P control ports (without a computer). Method Two requires a computer running the appropriate configuration software. Please contact JBL Synthesis Technical Support for more information.

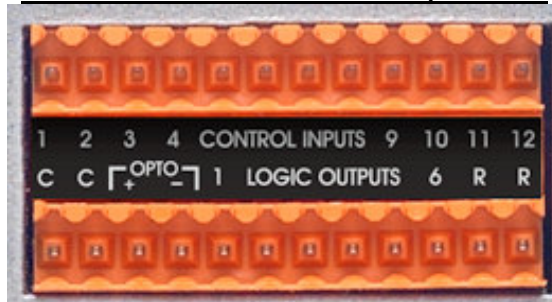
**METHOD ONE: WITHOUT A COMPUTER**

With the unit powered up and running, connect Control Input 1 to "C" (common) on the back of the unit for Full Range (default) operation.

With the unit powered up and running, connect Control Input 2 to "C" for bi-amped operation.

Both of these connections do not require that the connection be constant. **These are momentary latching type connections. DO not leave this connected!**

**NOTE: Use the SDEC4500P control port ONLY**



**METHOD TWO: WITH A COMPUTER**

While using the SDEC Control Panel v1.5 or the ARCOS calibration software, select the appropriate speaker configuration as your installation requires. The software will automatically configure the outputs correctly.