

IR/RS232 Interface for Bang & Olufsen Beo4 Remote Control and RadioRA

Overview

The IR/RS232 interface allows the B&O Beo4 remote control to emulate the operations of a Lutron RAMC-10T-RL, utilizing an IR/RS232 interface from Lintronic of Denmark and a Lutron RA-RS232.

Components Needed

- Lutron RA-RS232 or RA-SBT-CHR
- Lintronic TT445-RX-232 – ordered from Lintronic of Denmark (www.lintronic.dk)
- Male to Male Serial Cable
- Null Modem adapter
- 9v/800mA power adapter



RA-SBT-CHR (Chronos)



RA-RS232 Interface

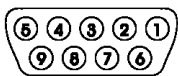


Lintronic TT455-RX-232

Component Diagrams

Lintronic TT455-RX-232

RS232 / RS485 connector



Rear view

- | | |
|-----------------------------|-------------------|
| 1: Digital Input | 6: Digital Output |
| 2: RS232, Tx, to computer | 7: RS485, A, + |
| 3: RS232, Rx, from computer | 8: RS485, B, - |
| 4: | 9: Ring indicator |
| 5: RS232, Ground | |



RS232 communication Computer

TableTop	
2	Tx
3	Rx
5	Ground
9	Ring indicator

Button Programming

From the factory, the Lintronics TT445-RX-232 comes configured as follows:

<u>Beo4</u>	<u>RA-RS232</u>
LIGHT 1	BP, 1, ON
LIGHT 2	BP, 2, ON
LIGHT 3	BP, 3, ON
LIGHT 4	BP, 4, ON
LIGHT 5	BP, 5, ON
LIGHT 6	BP, 6, ON
LIGHT 7	BP, 7, ON
LIGHT 8	BP, 8, ON
LIGHT 9	BP, 9, ON
LIGHT 0	BP, 10, ON
LIGHT GREEN	BP, 16, ON (All ON)
LIGHT RED	BP, 17, ON (All OFF)
LIGHT YELLOW	BP, Raise, ON
LIGHT BLUE	BP, Lower, ON

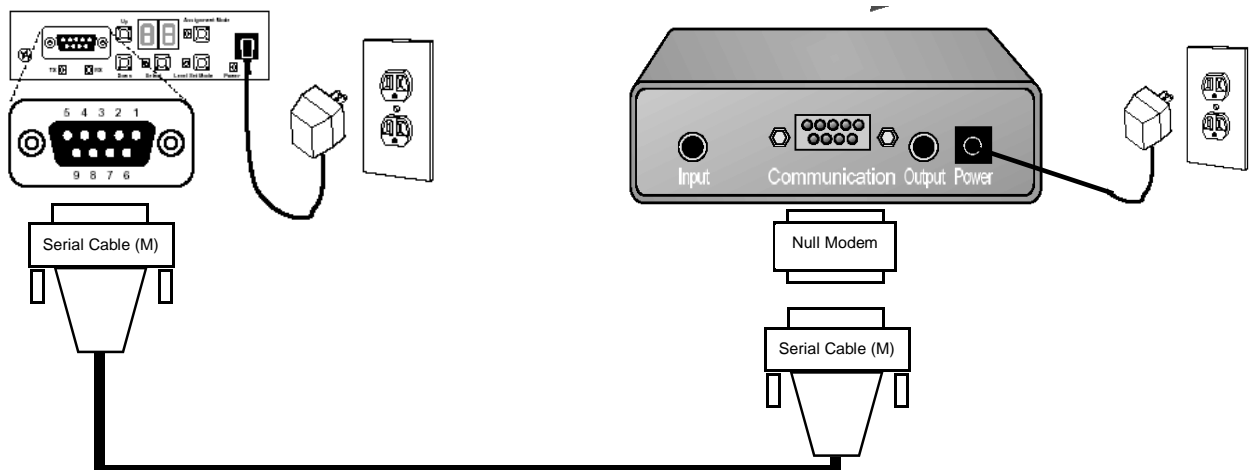
The LIGHT 1-0 can be programmed as either ROOMS or SCENES in the RA-RS232. If a different configuration of programming is desired (for example, those customers who are used to the GBO Grafik Eye operation where the colored Beo4 buttons emulate scenes 1-4), special programming of the TT445-RX-232 can be ordered from Michael Lingaard at Lintronics (011 45 2876 7699 or lintronic@mail.dk). At this time, there is no additional charge for programming.

Instructions on programming phantom button pushes on the RA-RS232 can be found in RadioRA RS232 Protocol and Programming Guide, page 12. (044-038 rev. A).

Once you have assigned the RS-RS232 buttons, you must program them to different ROOMS or SCENES, or you can copy buttons from a RAMC-10T-RL. Instructions on copying button programming from a Master Control to the RA-RS232 can be found in RadioRA RS232 Protocol and Programming Guide, page 35. (044-038 rev. A).

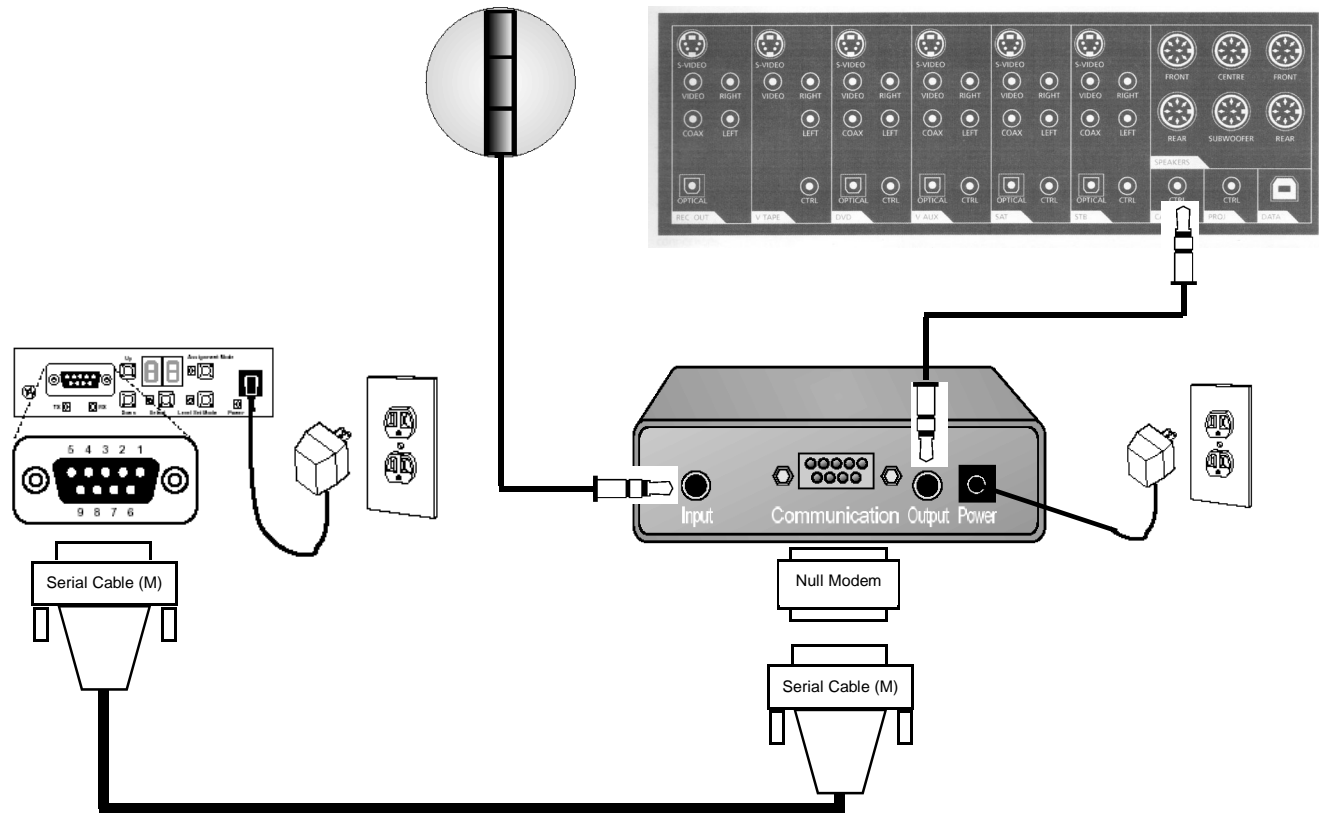
Wiring Diagram

Place the TT455 in a location where it can receive IR commands from the Beo4.



IR Option

If it is desirable to hide the TT455-RX-232 in a cabinet or other location, a B&O IR receiver (8087030) can be used connected to the TT455-RX-232 using the IR input located on the back. The IR Output can then be used to connect the loop to the BeoSystem 1 or other component.



Conclusion

For those customers who desire Beo4 control of their theater lighting, this application provides a simple solution.