

Tech Note:

BitWise Controls BC-IRI RS232 Protocol

BC-IRI RS232 Communications

When a compatible IR signal (NEC or Sony protocols) is received, the BC-IRI will decode the signal, and issue a short, easily parsed RS-232 string describing the signal. The RS232 string will be generated as follows, broken up into five components (shown separated by the | character, which will not be present in the RS232 output):

|P|dd|ss|cc|CR|

P	The protocol. Will be 'N' for NEC, 'Y' for Sony.
dd	The device code (in hex)
ss	The sub-device code (in hex)
cc	The command code (in hex)
CR	Carriage Return (0x0D)

When the IR signal is no longer received, the BC-IRI will generate a "Key-Up" message, as follows (shown separated by the | character, which will not be present in the RS232 output):

!KU|CR|

!KU	The ASCII string "!KU" (without quotations)
CR	Carriage Return (0x0D)

Example:

An NEC signal with the device code 183, sub-device code 73, command code 13:

NB74913 (followed by a CR)

Key is released:

!KU (followed by a CR)

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