



# Halo P3 RS232 Guide

## ◆ Hardware Specifications:

### Protocol

Baud Rate :9600 bps – serial numbers below 02101 (1way RS232)  
                   38400 bps – serial numbers above 02101 (2 way RS232)

Data Bit :8 bits

Stop Bit :1 bits

Parity :None

Flow Cntrl :No

### Connector & Pin definition

Actual Machine Connector : Female DB9

PC Connector : Male DB9

Use straight through cable  
 (NOT a Null-Modem cable)

PC		Actual Machine
Pin 2 RxD	-----	TxD Pin 2
Pin 3 TxD	-----	RxD Pin 3
Pin 5 Gnd	-----	Gnd Pin 5

## ◆ String Format :

ASCII (not decimal) and hexadecimal examples are shown below. The commas in the Hex example are merely for your ease of reading and are not required in transmission. All strings must have a space (line feed) between each number (except two digit numbers). In the Hex examples the space is already represented with code "20." The end of each string must have a carriage return after the last number with no space in-between, this is represented by "<CR>."

<u>Command</u>	<u>String ASCII</u>	<u>String Hexadecimal</u>
Power On	1 17 1 1<CR>	31,20,31,37,20,31,20,31<CR>
Power Off	1 17 1 2<CR>	31,20,31,37,20,31,20,32<CR>
Volume Up	1 17 1 25<CR>	31,20,31,37,20,31,20,32,35<CR>
Volume Down	1 17 1 29<CR>	31,20,31,37,20,31,20,32,39<CR>
Tone	1 17 1 21<CR>	31,20,31,37,20,31,20,32,31<CR>
Mute	1 17 1 22<CR>	31,20,31,37,20,31,20,32,32<CR>
Input Direct 1	1 17 1 34<CR>	31,20,31,37,20,31,20,33,34<CR>
Input Direct 2	1 17 1 35<CR>	31,20,31,37,20,31,20,33,35<CR>

<u>Command</u>	<u>String ASCII</u>	<u>String Hexadecimal</u>
Input Aux-Phono	1 17 1 36<CR>	31,20,31,37,20,31,20,33,36<CR>
Input CD	1 17 1 37<CR>	31,20,31,37,20,31,20,33,37<CR>
Input Tuner	1 17 1 38<CR>	31,20,31,37,20,31,20,33,38<CR>
Input Tape	1 17 1 39<CR>	31,20,31,37,20,31,20,33,39<CR>
Balance Right	1 17 1 72<CR>	31,20,31,37,20,31,20,37,32<CR>
Balance Left	1 17 1 71<CR>	31,20,31,37,20,31,20,37,31<CR>
Treble Up	1 17 1 74<CR>	31,20,31,37,20,31,20,37,34<CR>
Treble Down	1 17 1 73<CR>	31,20,31,37,20,31,20,37,33<CR>
Bass Up	1 17 1 76<CR>	31,20,31,37,20,31,20,37,36<CR>
Bass Down	1 17 1 75<CR>	31,20,31,37,20,31,20,37,35<CR>
Next Source	1 17 1 70<CR>	31,20,31,37,20,31,20,37,30<CR>

*Please Note: "<CR>" stands for Carriage Return, the Hex Code is "0D". A space in Hex is "20", a space in ASCII is just a blank space (as shown above).*

**◆ Rx Format (Feedback):**

Response information is in plain human readable text when viewed in ASCII Format. Feedback mimics what is shown on front panel display of actual Preamp. Please note that units with serial numbers below 02101 do not send any feedback.

An example when input is CD and Left & Right Volume is set to 55:

```

205,)000,246,205,000,    CD,    L, 55, 55, R,    000,200
-----HEADER-----  --Input--  ----Volume---  --End---

```