

# SERIAL INTERFACE SPECIFICATIONS

## Transfer Specifications

item	Specifications
TransmissionSpeed	38400 bps
Data Length	8 bit
Parity	None
Stop Bit	1
Flow Control	None

## RS-232 Commands

There are 2 types of commands:

- Key commands
- Operation commands

All commands start with 2 letters as shown in the following:

- “ky” for key commands.
- “op” for operations commands.
- Key Commands The following example is the syntax for key commands: ky <keyname>[CR]

## IR Codes and Key names

Key	Code	RS232 Keyname	Function	KeyWording	Description
1	0x01	pow.on	Power On	<b>ON</b>	Turn power on
2	0x09	pow.off	Power Off	<b>OFF</b>	Turn power off
9	0x1A	cur.up	KeypadDown Arrow.	▲	Keypad up arrow.
10	0x1D	cur.left	KeypadLeft Arrow.	◀	Keypad left arrow.
11	0x17	enter	Enter	<b>ENER</b>	Keypad enter.
12	0x1F	cur.right	KeypadRight Arrow.	▶	Keypadright arrow.
13	0x18	cur.down	KeypadUp Arrow.	▼	Keypad down arrow.
14	0x15	menu	Bring Up or CancelMenu Display.	<b>MENU</b>	Bring up or cancel menu display

## Operations Commands

The following example is the syntax for operations commands:

op <operation> <command>[CR]

No.	Function	Command	Action on unit
1	Set	=<value>	Makes the unit take that value.
2	Get	?	Asks what the current value is.
3	Increment	+	Adds 1 to the current value.
4	Decrement	-	Subtracts 1 from the current value.
5	Execute	(none)	Performs an action.

Operation	Command	Values
source.sel	= ?	0 = HDMI 1 1 = HDMI 2 2 = RGB 3 = YPrPb1 4 = YPrPb2 5 = S-video 6 = Video
aspect	= ?	0 = 16:9 1 = Letterbox 2 = 4:3 3 = 4:3 Narrow 4 = Native
bright	= ?+ -	0 - 200
contrast	= ?+ -	0 - 200
sharp	= ?+ -	0 - 200
nr	= ?+ -	0 - 200
overscan	= ?	0 = Off 1 = Crop 2 = Zoom
resync	(execute)	
color.space	= ?	0 = Auto 1 = YPbPr 2 = YCbCr 3 = RGB-PC 4 = RGB-Video
gamma	= ?	0 = CRT 1 = Film 2 = Video 3 = Bright 4 = Graphics
red.off	= ?+ -	0-200
green.off	= ?+ -	0-200
blue.off	= ?+ -	0-200
red.gain	= ?+ -	0-200
green.gain	= ?+ -	0-200

blue.gain	= ?+ -	0-200
vert.pos	= ?+ -	0-200
horiz.pos	= ?+ -	0-200
menu.pos	= ?	0 = Topleft 1= Topright 2= Bottom left 3= Bottom right 4 = Center
auto.pow.off	= ?	0 = Off 1= On
auto.pow.on	= ?	0 = Off 1= On
rear.proj	= ?	0 = Off 1= On
ceil.mode	= ?	0 = Off 1= On
model.name	?	<string>
ser.number	?	<string>
soft.version	?	<string>
act.source	?	0 = HDMI 1 1= HDMI 2 2 = RGB 3= YPrPb1 4 = YPrPb2 5= S-video 6 = Video
h.refresh	?	<number> kHz
v.refresh	?	<number> Hz
pixel.clock	?	<number> MHz
signal	?	<string>
lamp.hours	?	<number>
Lamp.reset	(execute)	
fact.reset	(execute)	
altitude	= ?	0 = off 1= on
v.keystone	= ?	<number>
h.keystone	= ?	<number>
memory	= ?	0 - recall user memory 1 1 - recall user memory 2