# SP-1X8HD150M Control4 Driver Guide

For Composer Pro · Driver version 1.0.1

**The KanexPro SP-1X8HD150M driver lets a Control4 system control the SP-1X8HD150M over the network.** It talks to the unit's own control port (TCP 8001): no other KanexPro software and no RS-232 cable are needed. Each control is a programming command, and each reading is a variable that follows changes made on the unit's front panel, remote or web page.

**Before you start —** the Control4 controller must reach the SP-1X8HD150M on TCP port 8001. Give the unit a fixed IP address (or a DHCP reservation).

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## 1. INSTALL THE DRIVER

1. Download **KanexPro-SP-1X8HD150M-C4-1.0.1.zip** from the SP-1X8HD150M page on kanexpro.com (Resources) and unzip it.
2. In Composer Pro, add the driver from the file `KanexPro-SP-1X8HD150M-C4.c4z` (Driver > Add or Update Driver, or drag the file in).
3. Add it to the project in the room where the unit is.
4. Select it and set its properties (section 2). **Connection** shows Connected once it reaches the unit.

**One driver per unit —** for two SP-1X8HD150M units, add the driver twice and give each its own IP address.

## 2. PROPERTIES

| DRIVER PROPERTIES | |
|---|---|
| **IP Address** | The SP-1X8HD150M's address on the control network. Empty by default. |
| **Port** | 8001 (TCP), the unit's control port. Change it only if the unit's own web page was set to another port. |
| **Poll Interval** | How often, in seconds, the driver reads the unit back. Default 10; 0 reads it only after a change from Control4. |
| **Debug Mode** | On prints every command and reply to the Lua output. |
| **Connection** | Read only: Connected, Connecting, Not connected (and why), Refused (and which command), or No IP address. |
| **Driver Version** | Read only: 1.0.1. |

Action: **Reconnect** connects again at once.

## 3. PROGRAMMING COMMANDS

6 commands. Use them in Composer's Programming view, from any event.

| # | Command | Parameters | What it does |
|---|---|---|---|
| 1 | **Send a picture** | Output (a list: HDBaseT out 1, HDBaseT out 2, HDBaseT out 3, HDBaseT out 4 ...); State (a list: On, Off) | Send a picture: on or off on the output you pick. |

| | | | |
|---|---|---|---|
| 2 | **HDMI loop out picture** | State (a list: On, Off) | HDMI loop out picture: on or off. |
| 3 | **Scale down** | Output (a list: HDBaseT out 1, HDBaseT out 2, HDBaseT out 3, HDBaseT out 4 ...); State (a list: On, Off) | Scale down: on or off on the output you pick. |
| 4 | **Scale down the HDMI loop out** | State (a list: On, Off) | Scale down the HDMI loop out: on or off. |
| 5 | **RS-232 port goes to** | Value (a list: Every receiver, Receiver 1, Receiver 2, Receiver 3 ...) | Sets the RS-232 port goes to. Choices: Every receiver; Receiver 1; Receiver 2; Receiver 3; Receiver 4, and 5 more. |
| 6 | **Power** | Button (a list: On, Standby) | Presses the button you pick: On, Standby. |

## 4. VARIABLES

`STATUS` is the Connection text. The others follow the unit, whoever changes it:

| # | Variable | Kind | What it holds |
|---|---|---|---|
| 1 | `STREAM_OUT1` | on/off | HDBaseT out 1 Send a picture |
| 2 | `STREAM_OUT2` | on/off | HDBaseT out 2 Send a picture |
| 3 | `STREAM_OUT3` | on/off | HDBaseT out 3 Send a picture |
| 4 | `STREAM_OUT4` | on/off | HDBaseT out 4 Send a picture |
| 5 | `STREAM_OUT5` | on/off | HDBaseT out 5 Send a picture |
| 6 | `STREAM_OUT6` | on/off | HDBaseT out 6 Send a picture |
| 7 | `STREAM_OUT7` | on/off | HDBaseT out 7 Send a picture |
| 8 | `STREAM_OUT8` | on/off | HDBaseT out 8 Send a picture |
| 9 | `LOOP_STREAM` | on/off | HDMI loop out picture |
| 10 | `DOWNSCALE_OUT1` | on/off | HDBaseT out 1 Scale down |
| 11 | `DOWNSCALE_OUT2` | on/off | HDBaseT out 2 Scale down |
| 12 | `DOWNSCALE_OUT3` | on/off | HDBaseT out 3 Scale down |
| 13 | `DOWNSCALE_OUT4` | on/off | HDBaseT out 4 Scale down |
| 14 | `DOWNSCALE_OUT5` | on/off | HDBaseT out 5 Scale down |
| 15 | `DOWNSCALE_OUT6` | on/off | HDBaseT out 6 Scale down |
| 16 | `DOWNSCALE_OUT7` | on/off | HDBaseT out 7 Scale down |
| 17 | `DOWNSCALE_OUT8` | on/off | HDBaseT out 8 Scale down |
| 18 | `LOOP_DOWNSCALE` | on/off | Scale down the HDMI loop out |
| 19 | `POWER` | on/off | Readings Power |
| 20 | `SIGNAL` | on/off | Readings Source connected |
| 21 | `VERSION` | text | Readings Firmware |

## 5. TROUBLESHOOTING

**Connection says Not connected.**

Check the IP Address property against the unit's address (its front panel or its own web page). A unit on DHCP may have moved: give it a fixed address or a DHCP reservation. The driver tries again every 5 seconds by itself; the Reconnect action tries at once.

**The address is right, but it still does not connect.**
The Control4 controller and the unit must reach each other: the same network or VLAN, or a route between them. A firewall or switch ACL between them must allow TCP port 8001 to the unit. Leave the Port property at 8001 unless the unit's own web page was set to another port.

**Connection says Refused, and names a command.**
The unit refused that change. It may be in standby: turn it on first.

**Changes made on the unit do not show in Control4.**
Set Poll Interval above 0. Changes made on the unit's front panel, remote or web page then show in its variables within that many seconds.

**I need to see what the driver sends.**
Set Debug Mode to On: the Lua output in Composer shows every command sent and every reply.