ELAN® HC4
Quick Install Guide

To help protect your equipment from power surges and momentary power interruptions, we strongly suggest that you use a battery-backed power supply (UPS) with this equipment.

DO NOT connect the DC power cord until all other connections have been completed.

1 **Unpack the HC4.** Verify that you have all package contents. You should have received:

- HC4
- 12VDC Power Supply
- AAA Batteries (2)
- DB9 Male to RJ45 Adapter (4)
- Safety Sheet
- Can Brackets (2)
- Mounting Screws (4)
- HCREM Remote
- Quick Install Guide (This Document)

The complete HC4 Installation manual and the current Core Module software can be found and downloaded by going to www.elanhomesystems.com and following the dealer link. *Be sure to update the HC4 to the current Core Module software prior to programming.* Precision panel documentation is also located on the dealer site.

2 **Mount the** HC4 in the desired location.

When choosing the location for the HC4 keep heat management and ventilation in mind. The HC4 should not be directly located above heat sources such as amplifiers. In very warm locations (i.e.: enclosed cabinet) leave space above and/or below the HC4. For can mount applications, use the optional mounting hardware.

3 **Serial Connections**
Connect up to 4 RS232 controlled devices using the included DB9 to RJ45 adapters. One RS485 ports is also available for a total of 5 serial ports. Connect serial inputs from PPIS panels when using GCIREs. Suggested Cat5 wiring is 568 for the RS232 port connections to the DB9-RJ45 adapters. Refer to the Integration Notes for Cat5 wiring for devices connected to the RS485 port.
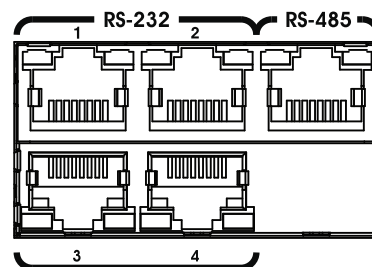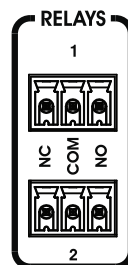
4 **VIA!Net Connections**
Connect to PPCM precision panel to provide VIA!Net communication for TS2 user interfaces connected to PPVN panels or to other supported VIANet devices.
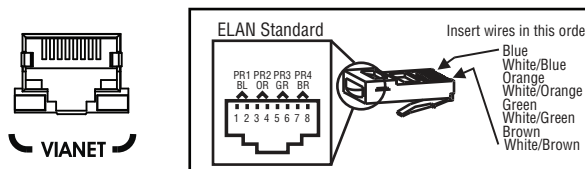
5 **Relay Connections**
Connect to the PPCM precision panel to activate relay controlled devices like lifts, drapes and movie screens located in the zones. Connect bare leads using the screw down terminals. Only Room connections 1-2 on the PPCM have relay connections. Accepts up to 24V AC or DC and current of up to 1 amp. Relay controlled devices may be directly connected if desired.
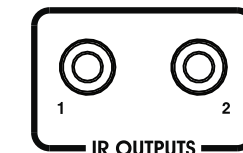
6 **Sense Input Connections**
Connect to the Sense Input connections of the PPCM using 3.5mm stereo cables. This allows ELAN sensors connected to PPRMs to be used to trigger events or to be used when conditionals are required in programming. The connection from the HC4 provides power for the sensor. Optionally, sensors may be connected directly to the HC4 sense inputs.
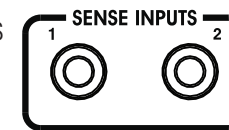
7 **IR Output Connections**
Connect to IR controlled devices at the head end or by using the PPCM to connect to IR controlled devices located in zones. Use 3.5mm mono cables to connect to the PPCM.

8 **EXTERNAL IR Input Connection**
Connect to the EXT IR IN connection of a PPVN or the PPCM. This connection allows the HC4 to receive IR input from a TS2's IR receiver (through the PPVN) or from an IR sensor connected to a PPRM, PPIS or PPIR (through the PPCM). If you need to connect both the PPCM and a PPVN to the EXT IR In of the HC4 an IR connecting block can be used. An IR sensor can be directly connected if desired, for example, when used in Home Theater applications.

9 **Audio Output Connection**
Connect to a source input of the A/V Controller. This is the line level audio output of the Internal Player. Requires a 3.5mm stereo mini to RCA adapter.

**10** **Video In/Out Connections**
Connect the Video Output to the component input of a monitor to provide the On Screen Display of the HC4. Connect the Video Inputs to the component video output of the A/V Controller to allow video to loop through the HC4 when the OSD is not being displayed.
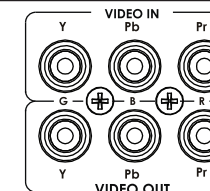
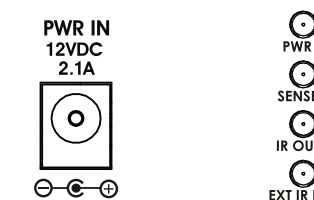**11** **Ethernet and USB Connections**
Connect the Ethernet connector to a switch or router to allow the HC4 to communicate on the network.
Connect the USB connection to the dial-up modem for Voice Mail applications.
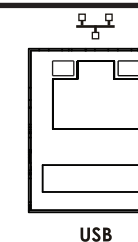
12 **Connect DC Power Cord**
Verify the HC4 is powered using the Activity Indicator LEDs.

13 **Verify the HC4 is on the network**
Using the g! Configuration software verify the HC4 is on the network. You can also "ping" the HC4's IP address from a computer that is on the network.
The HC4 comes from the factory as a DHCP client. We recommend changing the IP address using the "Config IP Info" button on g! ConnectPro to a dedicated static address **outside** of the DHCP range of your network.

PPIR

EXT IR IN

RJ-45

PPRM

IR OUT
SENSE
RELAY
RJ-45

PPIS

IR IN
GC-IRE
RS-232

PPVN

EXT IR IN
1 2
3 4
VIA NET
16 VDC

+16VDC
Power Supply

PPCM

PPRM1 PPRM2 PPRM3 IR IN VIANET IR1 IR2 IR3 R1 R2

IR1 IR2 IR3 GND GND NC COM NO NC COM NO
GND GND GND VIR GND
VSNS VSNS VSNS GRD GND
SNS1 SNS2 SNS3 VIR VIA-
GND GND GND - VIA
NC1 NC2 - -
COM1 COM2 - -
NO1 NO2 - EXT IR IN

SNS1 SNS2 SNS3 EXT IR IN VIANET

+12VDC
Power Supply

RJ-45 to RS-232
Adapter

HC4

PWR IN
12VDC
2.1A

RS-232 RS-485 RELAYS SENSE INPUTS AUDIO VIDEO IN

1 1 2 Y Pb Pr

NC COM NO G B R

3 4 1 2 Y Pb Pr

IR OUTPUTS EXT IR IN VIDEO OUT

USB

POWER
SENSE
IR OUT
EXT IR IN

DC Power Connection

VIA!Net Connection

Connect to the PPCM to provide Via!Net information to TS2s connected to the PPVN.

Uses the ELAN standard color code.

Sense Input Connections

Connect to Sense Input connections on the PPCM.

EXTERNAL IR Input

OSD Output & Passthrough for component video from A/V Controller to a monitor.

Activity Indicator LEDS

Serial Connections

4 RS232 and 1 RS485 ports.

Connect to PPIS panels or to serial controlled devices using the supplied DB9-RJ45 adapters.

Relay Connections

Note: Only Room 1-2 punchdowns on the PPCM have relay connections.

IR Outputs

Connect to IR Output connections on the PPCM and / or to IR controlled devices located in the rack.

Audio Output

Connect to Source Input of the A/V Controller.

Provides audio out for the Internal Player.

Ethernet Connection

USB Modem Connection