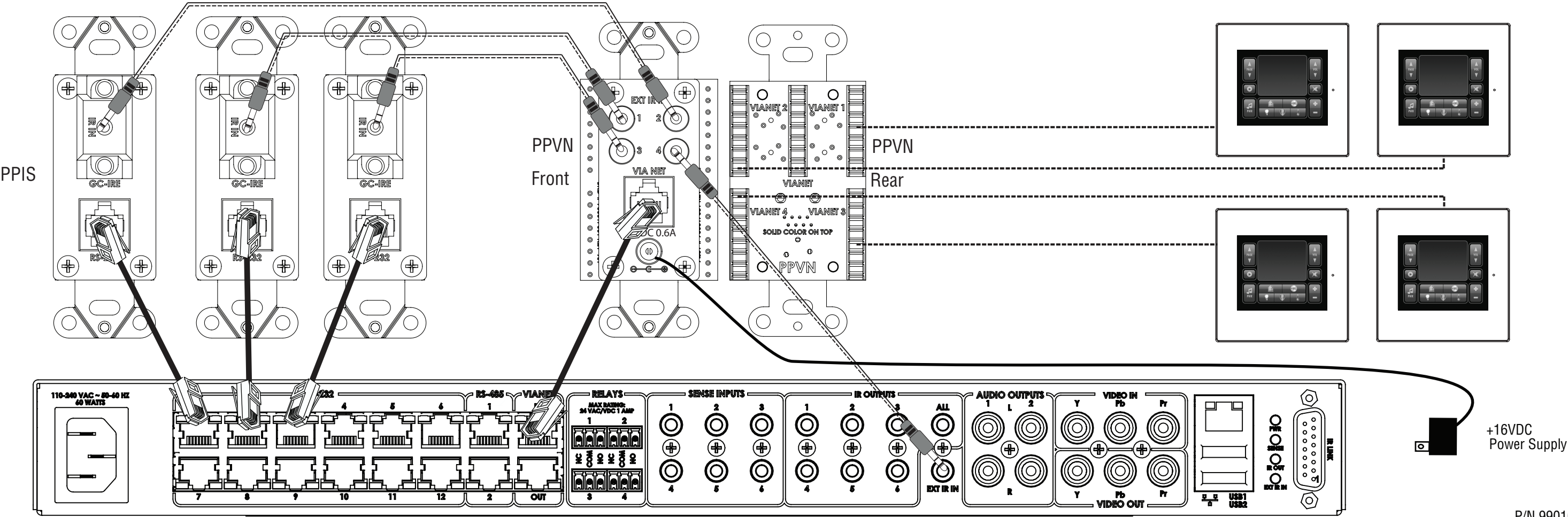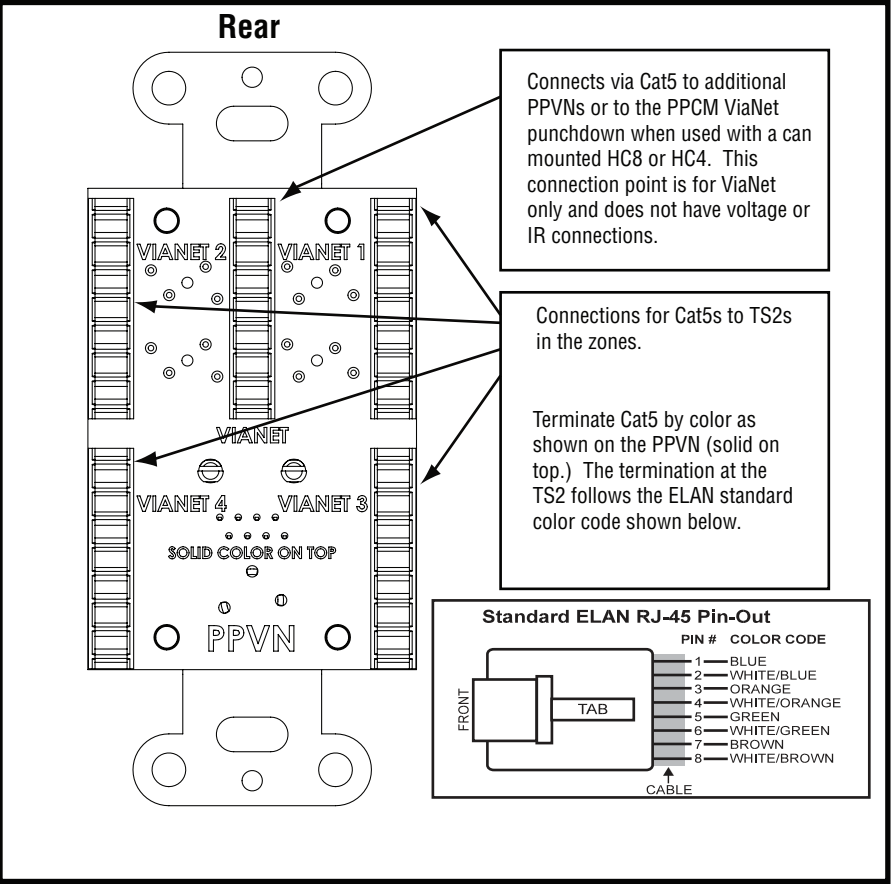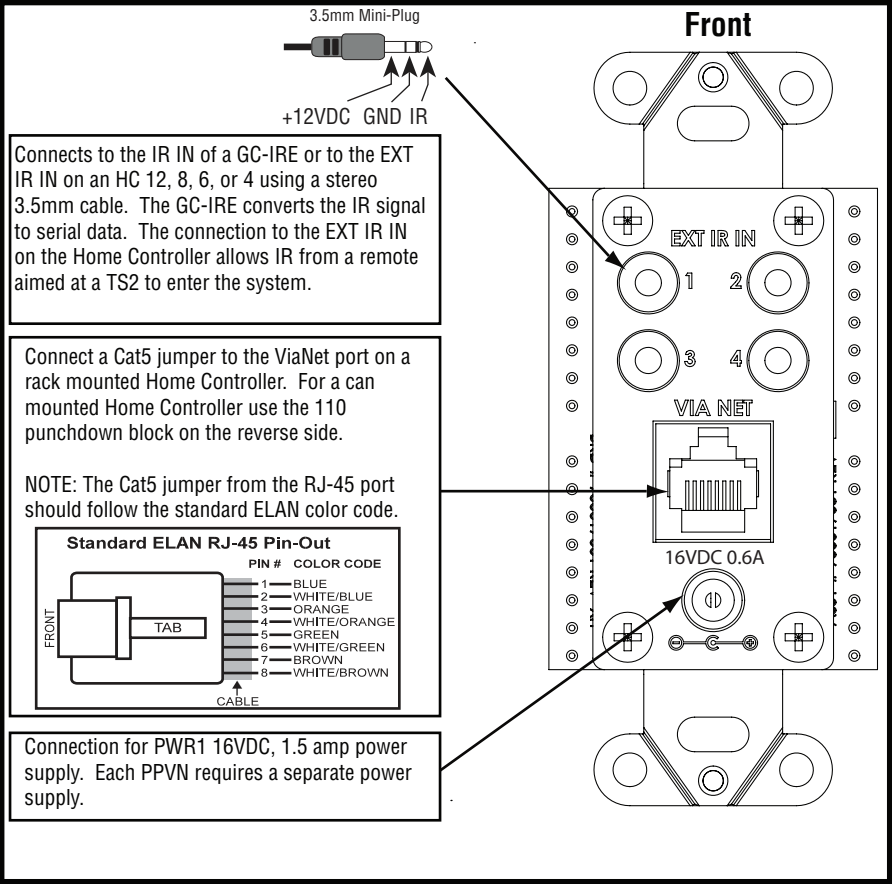# PPVN
Quick Install Guide

ELAN®

VIANET PRECISION PANEL

Applicaton: Provides power and ViaNet to and IR from four TS2s.

Connects to the ViaNet port on a rack mounted Home Controller or to the ViaNet punchdown of a PPCM when using can mounted controllers.

Location: Head-end

Wiring Basics: Cat5 connects to TS2s located in zones as well as to additional PPVNs and/or PPCM. Cat5 jumper from RJ-45 to PPWM.

3.5mm Mini-Plug

+12VDC GND IR

Connects to the IR IN of a GC-IRE or to the EXT IR IN on an HC 12, 8, 6, or 4 using a stereo 3.5mm cable. The GC-IRE converts the IR signal to serial data. The connection to the EXT IR IN on the Home Controller allows IR from a remote aimed at a TS2 to enter the system.

Connect a Cat5 jumper to the ViaNet port on a rack mounted Home Controller. For a can mounted Home Controller use the 110 punchdown block on the reverse side.

NOTE: The Cat5 jumper from the RJ-45 port should follow the standard ELAN color code.

Standard ELAN RJ-45 Pin-Out

PIN #	COLOR CODE
1	BLUE
2	WHITE/BLUE
3	ORANGE
4	WHITE/ORANGE
5	GREEN
6	WHITE/GREEN
7	BROWN
8	WHITE/BROWN

FRONT TAB CABLE

Connection for PWR1 16VDC, 1.5 amp power supply. Each PPVN requires a separate power supply.

Front

EXT IR IN
1 2
3 4

VIA NET

16VDC 0.6A

Rear

Connects via Cat5 to additional PPVNs or to the PPCM ViaNet punchdown when used with a can mounted HC8 or HC4. This connection point is for ViaNet only and does not have voltage or IR connections.

Connections for Cat5s to TS2s in the zones.

Terminate Cat5 by color as shown on the PPVN (solid on top.) The termination at the TS2 follows the ELAN standard color code shown below.

VIANET 2 VIANET 1
VIANET
VIANET 4 VIANET 3
SOLID COLOR ON TOP
PPVN

Standard ELAN RJ-45 Pin-Out

PIN #	COLOR CODE
1	BLUE
2	WHITE/BLUE
3	ORANGE
4	WHITE/ORANGE
5	GREEN
6	WHITE/GREEN
7	BROWN
8	WHITE/BROWN

FRONT TAB CABLE

PPIS

GC-IRE   GC-IRE   GC-IRE

IN IN   IN IN   IN IN

RS-232   RS-232   RS-232

PPVN Front

EXT IR
1 2
3 4
VIA NET
0.6A

PPVN Rear

VIANET 2 VIANET 1
VIANET
VIANET 4 . . . . VIANET 3
SOLID COLOR ON TOP
PPVN

110-240 VAC ~ 50-60 HZ 60 WATTS

7 8 9 10 11 12 RS-232 RS-485 1 2 OUT VIANET

RELAYS
MAX RATING:
24 VAC/VDC 1 AMP
1 2
NC COM NO NC COM NO
3 4

SENSE INPUTS
1 2 3
4 5 6

IR OUTPUTS
1 2 3 ALL
4 5 6 EXT IR IN

AUDIO OUTPUTS
1 2
L
R

VIDEO IN
Y Pb Pr
Y Pb Pr
VIDEO OUT

USB1
USB2

PWR SENSE IR OUT EXT IR IN IR LINK

+16VDC Power Supply

P/N 9901048
Rev. B - 5/03/10

Sample System Layout

Blu-Ray Player

DT22

C2

HC12

S128P

D16

SPK SPK SPK SPK

(Cat5)
(Stereo 3.5mm cable)
(Stereo 3.5mm cable)

PPVN
(side view)

+16VDC
Power Supply

(Stereo 3.5mm cable)

PPIS
(side view)

(DB15)
(Stereo 3.5mm cable)
(Stereo 3.5mm cable)
(Mono 3.5mm cable)
(Cat5)

PPWM
(side view)

+16VDC
Power Supply

PPSP
(side view)

+16VDC
Power Supply

LOCAL IR SENSOR   LOCAL IR SENSOR
TS2   TS2

(Cat5)
(Cat5)
(Cat5)
(Cat5)

LOCAL IR SENSOR   LOCAL IR SENSOR
TS2   TS2

Ethernet Connections

(Cat5)

TS7

TS7

TS7

TS7

(Cat5 x 2)

IR IN
GC-IRE
RS-232
PPIS

EXT IR IN
RJ-45
PPIR

(Cat5)

(Cat5 x 2)

IR Emitter

IR OUT
SENSE
RELAY
RJ-45
PPRM

ELAN
LED/LIGHT SENSOR

Monitor
Power Led

Lift   Screen   Drapes
Relay Controlled Devices

To RJ-45 to DB9 adapter or
Ethernet connection.

(Two Conductor Power)