

VIPER

Video Surveillance over UTP Structured Cabling

Flexibility, Simplicity and Value...



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Introduction

LAN Power Systems is a Silicon Valley, CA Corporation that designs and manufactures break through high technology products for Analog Video Surveillance over UTP structured cabling system; IP Video Surveillance over Ethernet and PoE (Power over Ethernet).

LAN Power Systems operates from locations in the USA, Japan, China, India and UK.

LAN Power Systems has the following delighted Customers including The London Underground & JVC



VIPER - Video Surveillance over UTP Structured Cabling

VIPER - Video Surveillance over UTP structured cabling system is the patent* pending break through technology for transmitting high quality real time video, control and power over a single length of standard four pair UTP cable (CAT3 & above). UTP cables have been extensively used in the telecom and datacom markets for many years.

VIPER – Video Surveillance over UTP supports the following UTP structured cabling system:

- CAT3
- CAT5 and CAT5e
- CAT6

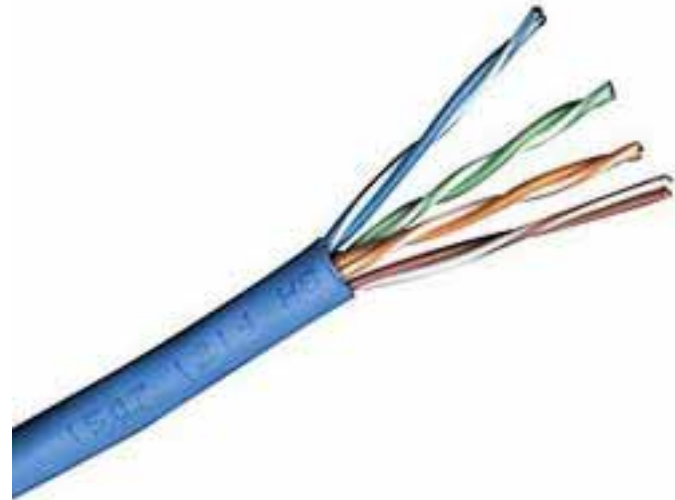
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Advantages:

Analog video surveillance systems historically been installed with a separate cable each for the video, control & power. VIPER combines the three cables into one versatile UTP cable. Would you rather use 1 UTP cable or three cables including one COAX cable – the choice is clear!



1 COAX plus 2 other Electrical Cables



8-Conductor Cat5 UTP

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Advantages:

- Video, Control and Power signals on one UTP cable segment
- Highly reduced overall cable purchase cost and installation (labor costs)
- Longer distances for remote cameras; over 1 Mile (1.6 Km)
- Easier installation following UTP structured cabling
- Lower cost for termination tools & test equipments
- Lighter weight cable bundles than COAX and no bend radius issues
- Can be used in harsh outside environments
- Less containment required

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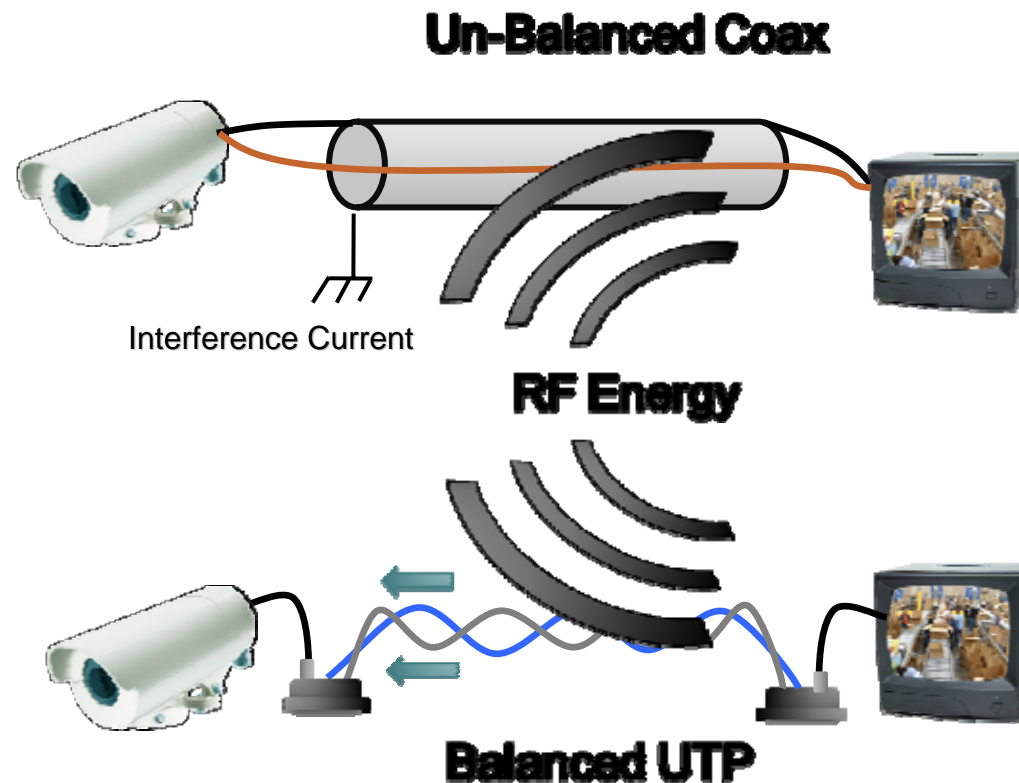
Advantages:

- Surge protection and built-in ground loop isolation
- Automatic LF (brightness) and HF (sharpness)
- No power required for passive cards
- Greater immunity to electrical 'noise' than COAX
 - Other cables and pairs in the bundle
 - Fluorescent lights
 - Electrical transformers and motors
 - Wireless and radio transmitters
 - Any other noise emitting source...

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Advantages:

Noise Immunity for UTP is superior to COAX in its ability to reject interference and reduce the possibility of noise being induced into transmitted images.



Couples into both conductors equally. Only the 'difference' in signals matter

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Products Overview:

- Two Chassis (4 & 10 slots) with hot swappable card system
- Each card can handle 4 cameras
- Chassis capacity of 16 or 40 cameras
- Multiple chassis can be daisy chained
- Over 1 mile (1.6 Km) reception on each channel
- Automatic brightness & sharpness
- Built-in noise immunity, 60 dB CMRR
- Built-in lightning protection



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Products Overview:

- Individually floating outputs ensure total ground-loop isolation
- Highest port density; 2U high for 40 cameras and 1U for 16 cameras
- Each port individually selectable; 28VAC
- 1.5 Amp per port max output; 24 Amp for 2U & 12 Amp for 1U Chassis
- Diagnostic LEDs display load/no load, miss-wire and overload
- Automatic reset fault protection and transient protection
- Powers 16 / 40 remote cameras, pass through video and PTZ control via a single 4-pair UTP cable with RJ45 connectors

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Products Overview: Cards and Chassis System



VP-6001
PTZ Control Card



VP-6002
Automatic Gain Control Card



VP-6004
Long Haul Card



VP-6005
Short Haul Card



VP-6006
Short Haul Card
with GLC



VP-6007
Central Card



VP-6008
Central Card with AGC



VP-6009
Central Card with
Ground Loop Control



VP-5004
Chassis -4 Slots with built in power supply



VP-6010
Additional Power Card



VP-6011 Passive Card
Video without Control & Power



VP-6012
PoE Card



VP-5010
Chassis -10 Slots with built in power supply

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Products Overview: VP5004 (Chassis 4 – slots; with built in power supply)



VP-5004 Chassis - 4 Slots with built in power supply and PTZ Control

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Products Overview: VP5010 (Chassis 10 – Slots; with built in power supply)

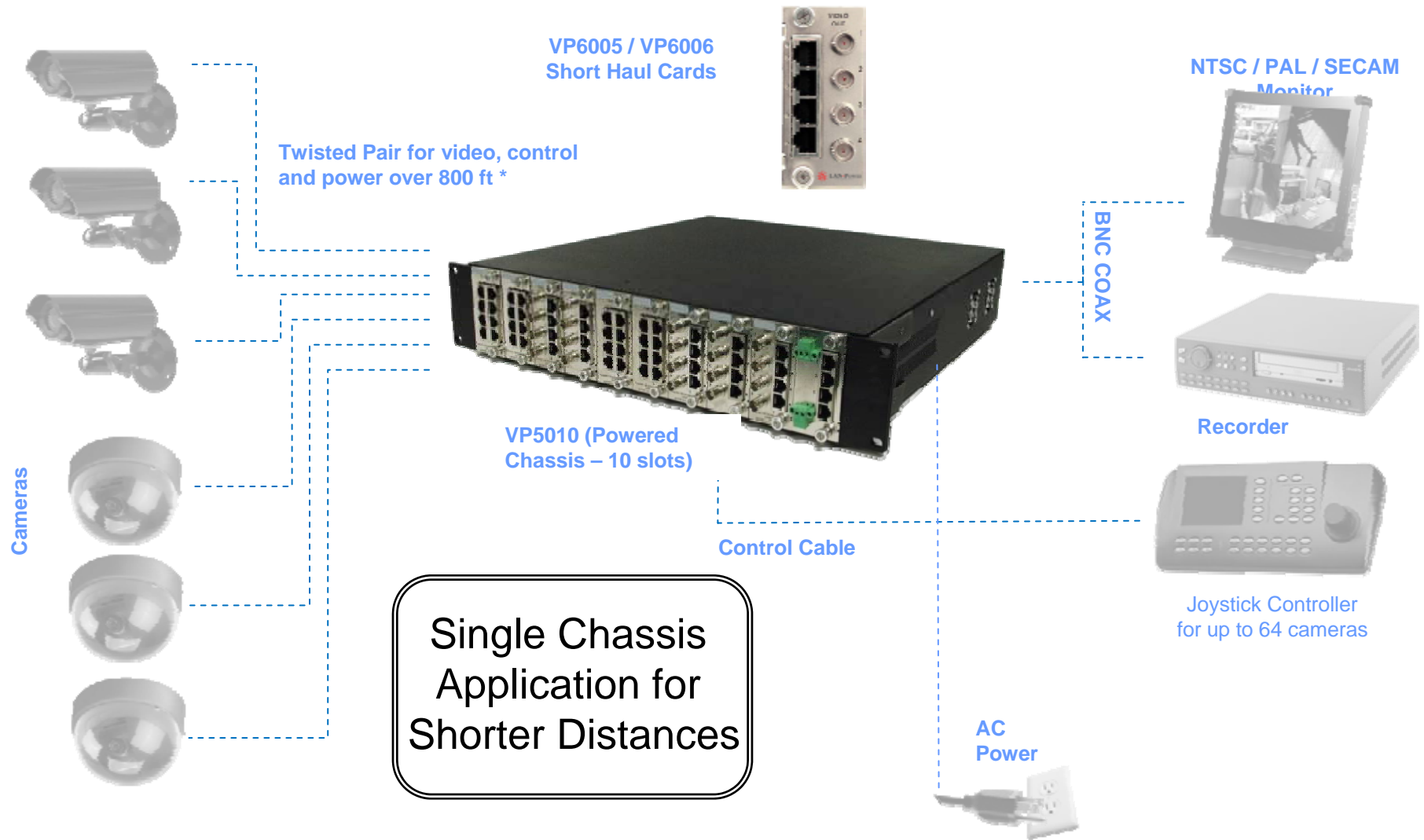


VP-5010 Chassis -10 Slots with built in power supply



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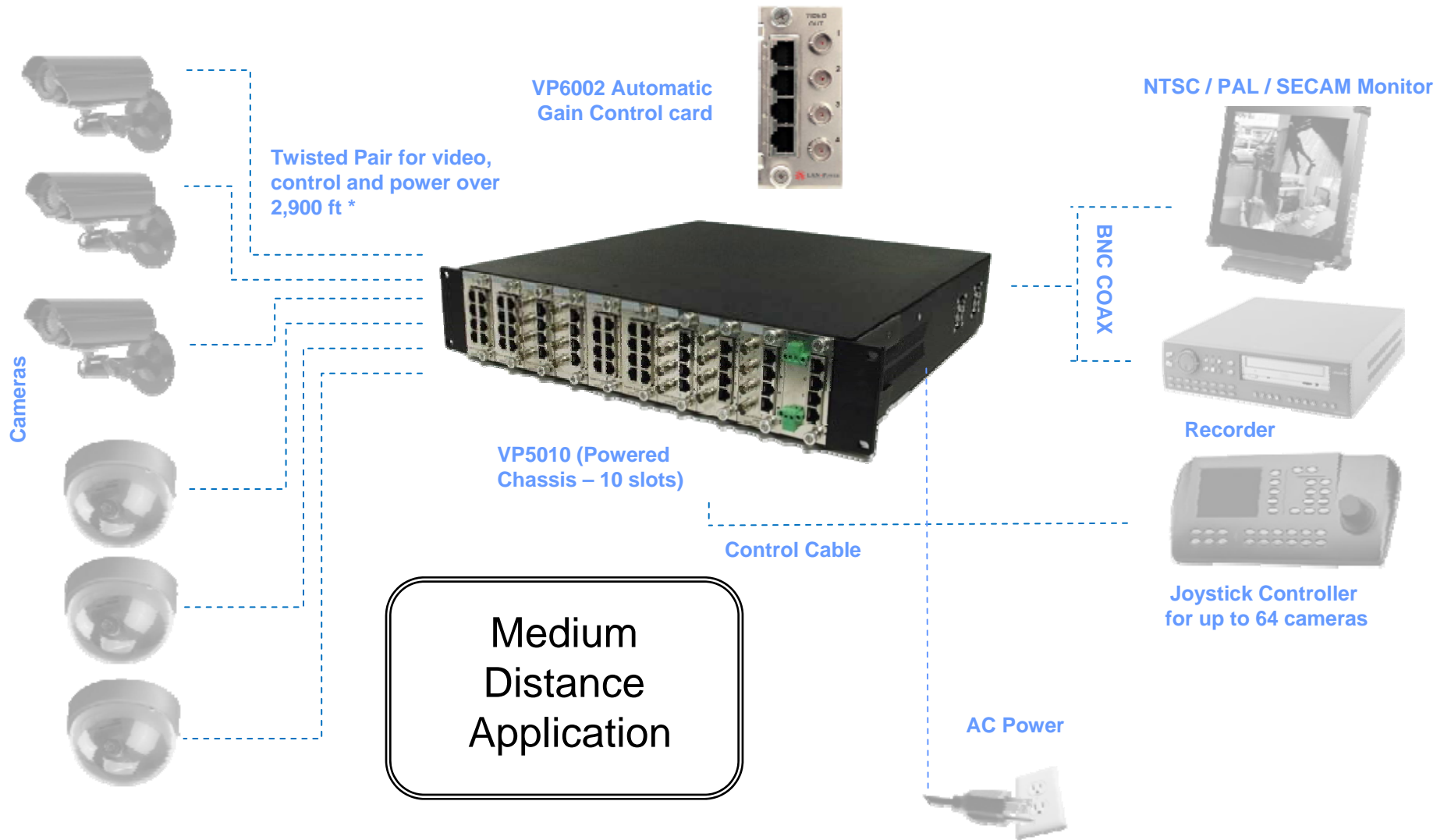
Applications Overview: VP6005 or 6006 (Short Haul Cards)



Note: * subject to power line loss depending on the camera power

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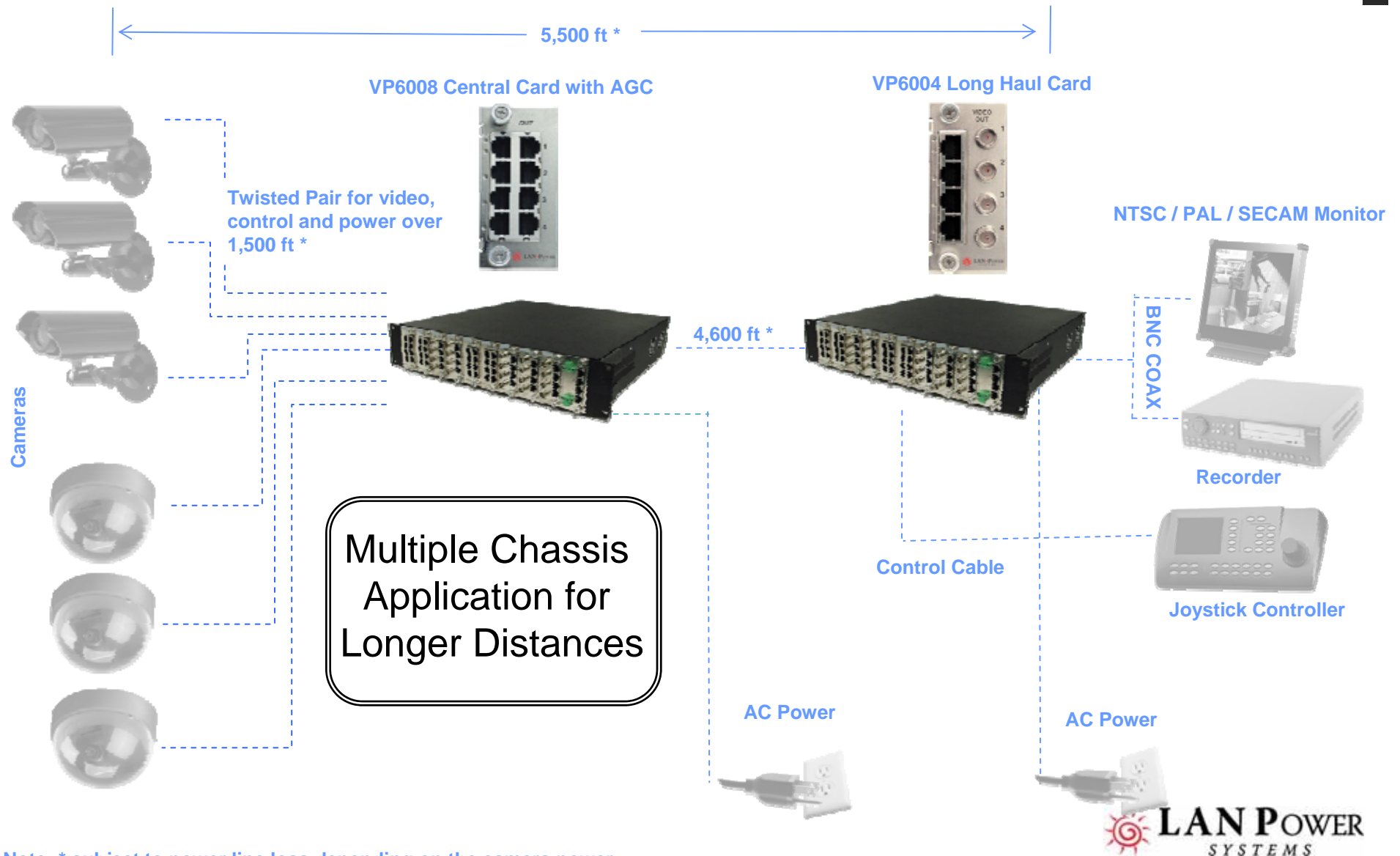
Applications Overview: VP6002 (Automatic Gain Control Card)



Note: * subject to power line loss depending on the camera power

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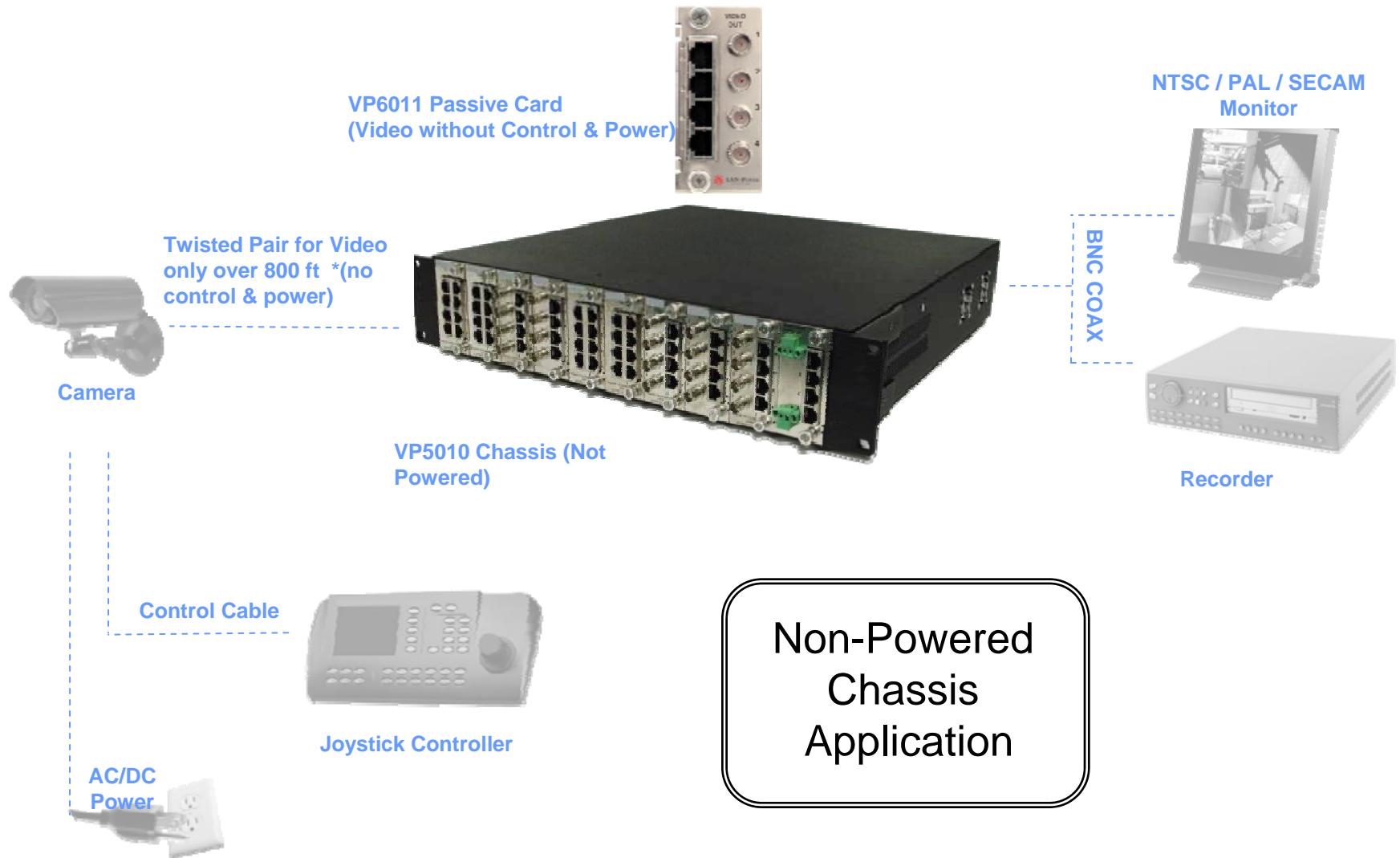
Applications Overview: VP6008 (Central Card + AGC); VP6004 (Long Haul Card)



Note: * subject to power line loss depending on the camera power

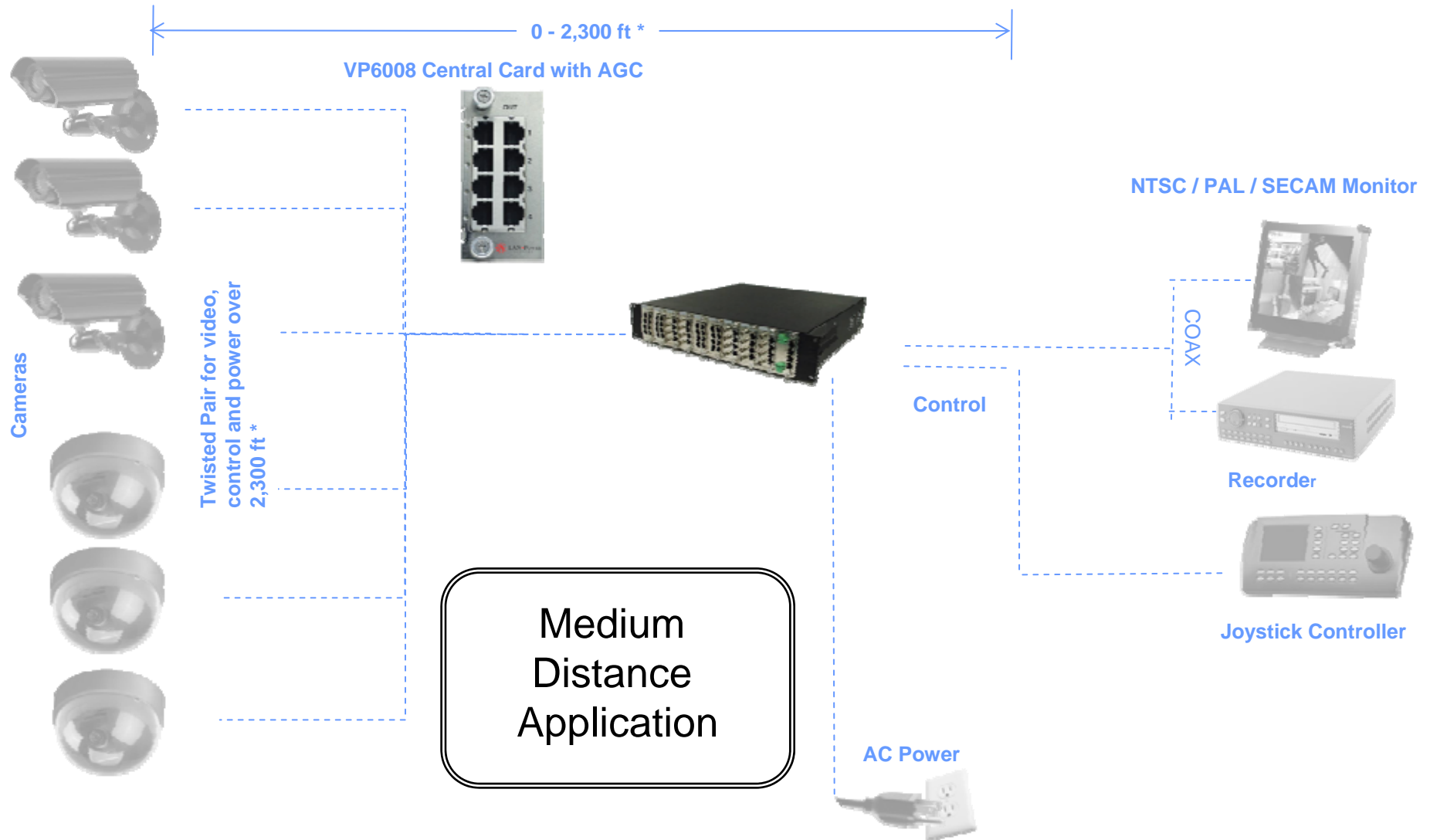
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Applications Overview: VP6011 Passive Card (Balun without Control & Power)



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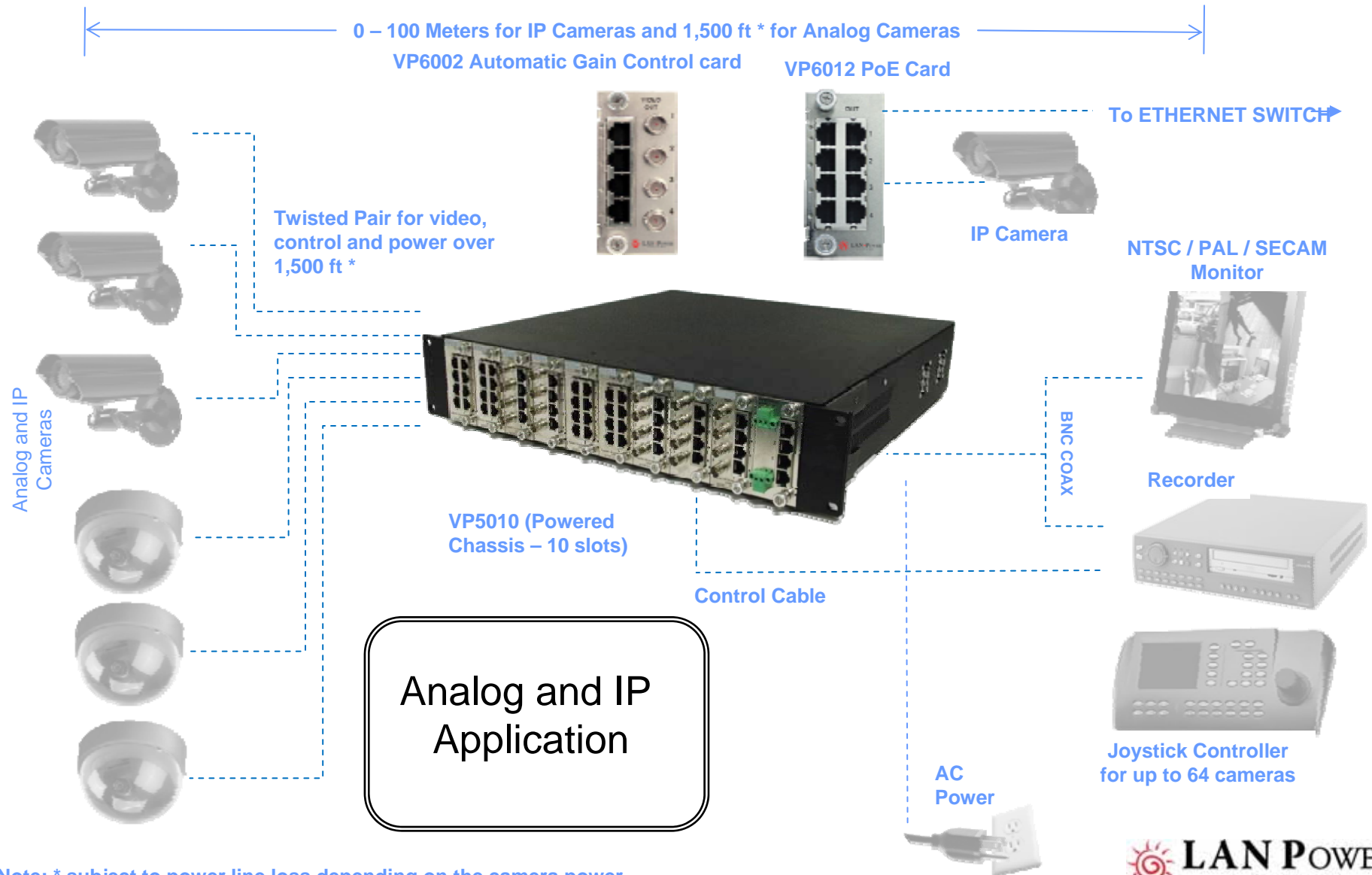
Applications Overview: VP-6008 Central Card with Automatic Gain Control



Note: * subject to power line loss depending on the camera power

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Applications Overview: VP6012 PoE Card (Analog & IP Video on single system)




Note: * subject to power line loss depending on the camera power

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Summary:

- **Labor Costs Savings vs. Coax System**
- **Material Costs Savings vs. Coax System**
- **Easier to Add Cameras over Structured Cabling**
- **Longer Transmission Distances are possible**
- **NTSC / PAL / SECAM Quality Pictures**
- **Supports both Analog & IP Cameras; Future Proof Investment**



**Thank you for your interest in
VIPER – Video Surveillance over UTP Structured Cabling
from**



Find additional information at
www.lan-power.com

