



# Pilot Ultra V1599 Network Video Switching Control System



Monitor not included

## Supports Large-Scale Matrix Systems up to 8192 Cameras and 512 Monitors

- Modular configuration enables simple system expansion at any time
- Supports up to 512 keypads, 8192 PTZ or fixed cameras, 8192 alarm inputs and 512 monitors
- Network connectivity through Communication Distribution Unit (CDU) to existing Vicon® products
- Microsoft® Windows® based Configurator simplifies system programming

The Pilot Ultra™ V1599 Network Video Switching Control System was developed to satisfy the needs of large-scale and distributed matrix system users. The Pilot Ultra System incorporates LAN communication in a standard, open-architecture design that lends itself to simple expansion. This open-architecture design permits the easy addition of keypads, receivers, alarm devices, video switching units, and host RS-232 controllers.

The Pilot Ultra System is comprised of three main items: the Pilot V1599 Central Processing Unit (CPU) that stores all system configuration information, the Pilot V1599 CDU that can be configured in multiple ways to act as a gateway from the network environment to conventional non-network products and the Pilot 66/99 Card Cage, which connects the cameras and monitors to the system.

The Pilot V1599 can be configured with hot standby capability. This capability will allow redundant components to take over in the event of a primary system failure.

A Windows-based Configurator provides an intuitive interface for programming and control of all system functions, such as:

- Network Configuration
- Timed or Triggered Event Programming
- Keypad Setup
- Receiver Profile Configuration
- Camera Setup
- Titling and Identification of Cameras, Monitors and Presets
- Monitor Setup
- Salvo Configuration
- Tour Configuration
- Alarm Processing Configuration

**Corporate Headquarters**  
89 Arkay Drive  
Hauppauge, New York 11788  
631-952-CCTV (2288)  
800-645-9116  
Fax: 631-951-CCTV (2288)

**Vicon Europe Headquarters**  
Brunel Way  
Fareham, PO15 5TX  
United Kingdom  
+44 (0) 1489 566300  
Fax: +44 (0) 1489 566322

**Germany**  
vin-videotronic infosystems  
gmbh  
Lahnstrasse1  
D-24539 Neumuenster  
Phone: +49 (0) 4321 8790  
Fax: +49 (0) 4321 879 97

**Far East Office**  
Unit 5, 17/F, Metropole Square  
2 On Yiu Street, Shatin  
New Territories  
Hong Kong  
(852) 2145-7118  
Fax: (852) 2145-7117

[www.vicon-cctv.com](http://www.vicon-cctv.com)



# Technical Specifications

## OPERATIONAL

**Compatibility:** Compatible with all generations of V1500, V1400 and V1300 matrix system components, Pilot, NOVA and Surveyor product lines.

**Maximum Component Configurations:** Video Inputs: 8192.  
Monitor Outputs: 512.  
Receiver/Dome Support: 8192.  
XIA Alarm Inputs: 8192.  
Keypad/Console/Host RS-232 Support: 512.  
Time/Date/Title Outputs: 512.  
Video Tour Patterns: 256.  
Salvo Switch Configurations: 128.

## ELECTRICAL

### V1599CPU

**Input Voltage:** Selectable 120/230 VAC, 50/60 Hz.  
**Current:** 6A nominal.  
**Power Consumption:** 300 W nominal  
**CPU:** Intel® Celeron 3.06 GHz.  
**RAM Memory:** 512 MB.  
**Hard Drive:** 80 GB.  
**Operating System:** Windows XP Embedded.

### V1599CDU

**Input Voltage:** Universal 85-265 VAC, 47-60 Hz.  
**Current:** 300 mA nominal.  
**Power Consumption:** 36 W nominal.  
**Rear Panel Controls/Indicators:** Network: Two RJ-45 connectors.  
Video: Two 25-pin D-shell connectors and one BNC-F connector.  
Alarm: Two 37-pin D-shell connectors.  
Serial: Two RJ-45 connectors.  
TDT: Two DB-25.

### Pilot 66/99 Card Cage

**Input Voltage:** 120-230 VAC, 50/60 Hz Auto range.  
**Current:** 0.5 A RMS max. Fully loaded card cage.  
**Power Consumption:** 60 W max. Fully loaded card cage.

## MECHANICAL

**Application:** Indoor.  
**Mounting:** All units may be rack mounted in a standard EIA compliant rack,

### V1599CPU

**Dimensions:** Width (W): 19.0 in. (483 mm).  
Depth (D): 17.7 in. (450 mm).  
Height (H): 3.5 in. (89 mm).  
**Weight:** 21.8 lb (9.8 kg).  
**Color:** Front Panel: Gray; Case: Matte black finish.

### V1599CDU

**Dimensions:** Width (W): 19.0 in. (483 mm).  
Height (H): 5.25 in. (133 mm).  
Depth (D): 14.0 in. (355.5 mm) with external hardware.  
**Weight:** 21.2 lb (9.6 kg) standard configuration.  
**Color:** Gray.

### Pilot 66/99 Card Cage

**Dimensions:** Height (H): 14.0 in. (356 mm).  
Width (W): 19.0 in. (483 mm).  
Depth (D): 8.5 in. (216 mm).  
**Weight:** Approximately 27 lb (12.27 kg).  
**Color:** Front panel: Gray.

## ENVIRONMENTAL

### V1599CPU and V1599CDU

**Operating Temperature Range:** 32 to 113° F (0 to 45° C).  
**Operating Humidity Range:** 10 to 90%, noncondensing.

### Pilot 66/99 Card Cage

**Operating Temperature Range:** 32 to 122°F (0 to 50°C).  
**Operating Humidity Range:** Up to 95% relative, non-condensing.

## Product Codes, Model Numbers and Descriptions for Main Components of Pilot Ultra

V1599CPU	9318-00	Pilot V1599 Central Processing Unit. Includes internal graphic configurator, capable of addressing over 8000 cameras and 500 monitor and keypad stations. Use with companion Pilot-CDU Communication Distribution Unit and Matrix Switching System
V1599CDU-1	9319-00	Pilot V1599 Communication Distribution Unit. Configured to address 2046 cameras, 128 monitors, 512 receivers, 16 keypads, one RS-232 port and monitor titling. Includes one network interface card and one power supply module.
V1580SCC	6020-80	Pilot66/99 card cage (256x16 or 256x32). Accepts up to 8 switcher boards. Includes motherboard, line sync board and universal power supply.

Refer to the Product Price List for Product Codes of other components and Prepacs.

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Vicon part number 8015-5119-01-00

Product specification subject to change without notice.