dataCat vu100

VGA & USB 1.1 transmission over a single Cat 5/6 cable
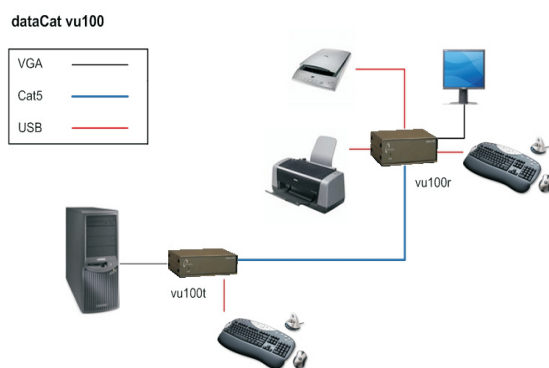
CIM interconn
interactive connection

dataCat vu100

dataCat vu 100 allows you to place your VGA display and USB peripheral units up to 100 meters/ 328 feets from your PC. The product set consists of two units, the transmitter and receiver, connected by a single Cat 5 or Cat 6 "link" cable (also called PDS or Ethernet cable) up to 100 metres/ 328 feets in length.

Any VGA compatible display can be connected to the receiver unit and any USB 1.1 compatible peripherals, including keyboard, mouse, scanner, hard disk, and docking cradles, can be connected to the four port hub on the receiver. The transmitter unit is connected to the appropriate VGA (HD-15) and USB connectors on the computer.

CIM Interconn's proprietary VGA transmission technology is unsurpassed in quality on the world market. Our USB technology is certified by the USBIF (USB implementers' forum).

The vu100 is the fifth generation of Interconn's extender products which have demonstrated mission critical reliability in 24/7 applications in banks, dealer rooms, call centres, hospitals, police stations, and numerous other business, military and industrial contexts throughout Europe since 1999.

Configuration

dataCat vu100

VGA	
Cat5	
USB	

vu100r

vu100t

Related products

dataCat vp125 / vp300	KVM extender with PS/2 kbd mouse and hires VGA over Cat 5/6. Two models with 125 meter or 300 meter transmission distances
avCat	VGA and audio distribution over Cat 5/6: 200 monitors over 10 km cabling
dataRack	All of our dataCat and avCat products can be delivered with our own rack chassis for standard 19'' racks and our proprietary desktop mini-rack

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How it works

The transmitter unit is connected to the VGA and USB outputs on the computer. This unit converts the VGA signal into three balanced analogue signals (Red, Green, and Blue with horizontal and vertical sync signals carried as common mode signals on two of the colors) which are transmitted on three of the four twisted pairs in the Cat 5/6 cable. The fourth pair is used for transmitting the digital data of the USB signals which are packed, multiplexed and converted to balanced signals in the transmitter.

Transmission is in real time with no discernible delays on either video or USB. The user's display and USB peripherals are connected to the receiver unit, which converts the blanced signals back into their original VGA and USB formats.

An optional skew compensation unit can, if necessary, be provided to adjust for color shift due to the unequal twist rates of the cabling. Ask your supplier.

Features

- VGA displays and USB 1.1 peripherals can be placed up to 100 meter away from the computer.
- Supports distances up to 150m if only USB keyboard and mouse are connected.
- Excellent video quality :
    - the vu100 supports resolutions up to 2048 x 1536 at 50 meter, and 1280 x 1024 at 100 meter
- All USB 1.1 peripherals are supported, including keyboard, mouse, scanner, harddisk, audio, docking cradles printers, touch screens etc.
- Transmission over Cat 5, 5e, or Cat 6, EIA/TIA 568 Pinout
- Unsurpassed video quality with high powered manual equalisation circuits.
- Compatible with all standard VGA signals (RGBHV).
- Compatible with all USB 1.1 peripheral units.
- Compatible with Win 98ME, Win2000, WinXP, Win2000/2003 server, Linux and Mac OS 9.2 and OSX.
- Compatible with most KVM switches.
- Two power supplies and system cables are included.
- No software installation required

Technical specifications

Video Bandwidth:	Transmitter: 400 MHz Receiver: 250 MHz
Maximum transmission distance	100m (150m with keyboard/mouse only)
Operating Temperature	5-50°C (41 to 122°F)
Storage Temperature	-20 to 70°C (-4 to 158°F)
Power Supply: transmitter and receiver	5V DC 1,4A
Connection Transmitter	RJ 45 (link) HD15 (VGA) 1 x USB type B
Connection Receiver	RJ 45 (link) HD15 (VGA) 4 x USB Type A
Maximum Resolution	up to 2048 x 1536 @ 85 Hz
Video Synchronization	TTL
Video Compativility	VGA, SVGA, XGA, SXGA, UXGA