



Voyager DVI Extender

Installation guide



Specifications

Package Contents:	1036-121P	1036-122P	1036-121U	1036-122U
Local Unit	1 x DVI-D (Single Head)	1 x DVI-D (Dual Head)	1 x DVI-D (Single Head)	1 x DVI-D (Dual Head)
Remote Unit	1 x DVI-D (Single Head)	1 x DVI-D (Dual Head)	1 x DVI-D (Single Head)	1 x DVI-D (Dual Head)
Power Supply	2 x 5V DC	2 x 5V DC	2 x 5V DC	2 x 5V DC
Power Cords	2 x Power Cords	2 x Power Cords	2 x Power Cords	2 x Power Cords
Cables	KVM CPU Cable	KVM CPU Cable DVI Cable	DVI Cable	DVI Cable DVI Cable
	PS/2 Keyboard / Mouse Adaptor	PS/2 Keyboard / Mouse Adaptor	USB Cable (A - B)	USB Cable (A - B)

Optional Items:

1036-00A	19" Rack Mount Kit – Single Head
1036-00B	19" Rack Mount Kit – Dual Head

Specifications:

Input Power	Local Unit max: 750mA Remote Unit max: 750mA
Video Resolution	DVI-D up to 1600 x 1200 @ 60 Hz
Keyboard and Mouse	PS/2 or USB – depending on version
Interconnection cable	CATx cable up to 150m (500ft) for AWG 24 grade cable 60m (200ft) for AWG 26 or 28 grade cable

Physical Properties:

		Height	Width	Depth	Weight
Single Head :	Local Unit	29 mm	103 mm	143 mm	0.30 kg
	Remote Unit	29 mm	103 mm	143 mm	0.30 kg
Dual Head Unit:	Local Unit	41 mm	103 mm	143 mm	0.43 kg
	Remote Unit	41 mm	103 mm	143 mm	0.43 kg

Operation and Storage parameters:

Operating Temperature:	5~45° C (41 to 113° F)
Humidity:	0~80% RH non-condensing
Storage Temperature:	-25~60° C (-13 to 140° F)

NOTE: This equipment complies with the requirements of European EMC directive 89/336 EEC in respect of EN55022 Class B, EN 55024, EN 61000-3-2 and EN 61000-3-3.

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Revision 1.0



Voyager DVI Extender

Introduction

Thank you for purchasing the Voyager DVI Extender. This product will allow you to place your Monitor with a **Digital Video Interface**, your Keyboard and Mouse up to 150 meters (dependant on cable type) away from your computer.

Product Features

- Support for DVI-D Graphic cards (all devices)
- Support for PS2 Keyboards and Mice or USB Keyboard and Mice, depending on version
- Maximum resolution: DVI-D: 1600x1200@60Hz
- Supporting 18 Bit color depth = 256,000 colors
- Status indicator LEDs on each device
- Small footprint chassis
- Rack mount options available
- CPU cables and Adapters included

Preparing installation

For first-time users, we recommend that you carry out a test placement, confined to a single room, before commencing full installation. This will allow you to identify and solve any cabling problems, and experiment with the Voyager DVI extender.

Hardware Installation

Connecting Up

1. Switch off your computer.
2. Connect the Voyager Local Unit to the PC KVM Cable
3. Connect the USB cable from the Local unit to the PC (USB versions only)
4. On a dual system plug in your Keyboard, Monitor and Mouse into the corresponding Keyboard / Monitor via the supplied adaptor (PS/2 Keyboard and mice). The keyboard can be plugged in directly to the unit if required. If you are using USB keyboards and mice they will plug into the USB ports on your computer. (You can use the Voyager without having a Local Keyboard, Monitor and Mouse connected).
5. Connect the power supply unit to the Voyager Local unit.
6. Connect your UTP cable to the Voyager Local Unit.
7. Connect the PC KVM cable to your computer's Keyboard Monitor and Mouse ports.
8. Connect the other end of your UTP cable to the Voyager Remote Unit.
9. Connect the power supply unit to the Voyager Remote unit.
10. Plug in your Keyboard, Monitor and Mouse into the corresponding Keyboard, Monitor and Mouse ports on the Voyager Remote Unit.
11. Power on your computer.
12. Check that the keyboard and mouse operate correctly.

The remote unit (when installed in its final location) may be left permanently powered up.

Cable Requirements

Cables to connect the Voyager DVI Local unit to your PC's system unit are supplied in the package. Your keyboard, monitor and mouse will plug in to the Voyager DVI Local with the supplied PS/2 Keyboard and Mouse adaptor cable. On the Voyager DVI Remote Units your keyboard and Mouse will plug directly into the unit.

The Voyager DVI is a dual access unit, in that it allows for an access point next to your computer as well as access point up to 150m away.

The UTP / STP interconnect cable to connect the Voyager DVI Local Unit to the Voyager DVI Remote Unit is not supplied with the Voyager DVI units. If you do not have suitable CAT 5, 5E or 6 UTP or STP cable fitted at you site, please consult your dealer.

The Local and Remote Units are connected by industry standard structured cabling (Category 5, 5E or 6 UTP/STP, 4-pair) terminated with RJ45 connectors.

The cable used should be solid trunk cable. Stranded patch cable will give poor results over longer distances.

The connector wiring must meet the EIA/TIA 568 standard.

CAT5 Wiring Scheme

The Local-Remote interconnection cable is terminated in RJ45 connectors and should be wired according to the EIA/TIA 568 (Scheme B preferred) industry standard. The Voyager will function with other wiring schemes, but the video quality may be impaired.

Orientation: Looking into the RJ45 socket pin 1 is on the left and pin 8 on the right.

Pin	Wire Colour	Wire	Pair
1	White/Orange	T2	2
2	Orange/White	R2	2
3	White/Green	T3	3
4	Blue/White	R1	1
5	White/Blue	T1	1
6	Green/White	R3	3
7	White/Brown	T4	4
8	Brown/White	R4	4



The Voyager has been tested with all major makes of CAT 5 cable including BICC-VERO, Mohawk, and Brand-Rex. The Voyager has also been tested with most major makes of CAT 5E and CAT6 with good results.

Note: That failure to wire the twisted pairs correctly will impair the video quality dramatically and / or prevent correct operation.

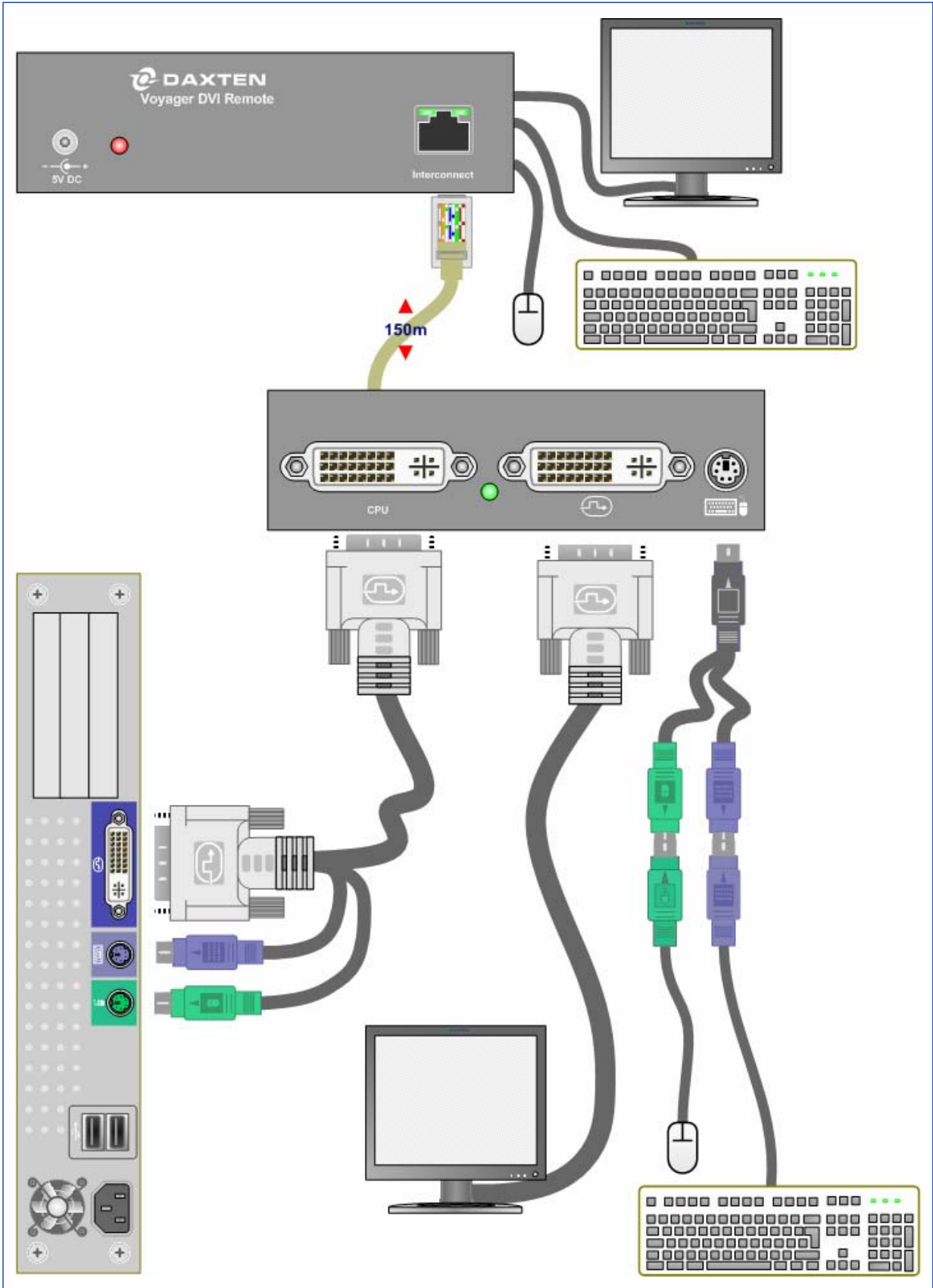
This Voyager DVI extender is designed for use up to a maximum cable length of 150m / 500ft. At this length the video quality should still be acceptable even at a screen resolution of 1600 x 1200 (60 Hz).

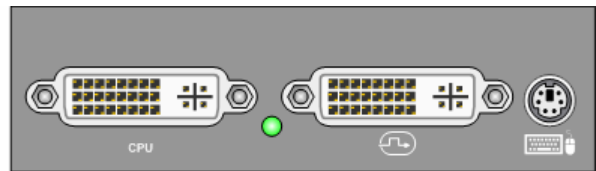
Although a single continuous length of interconnect cable is preferable, operation is possible through multiple Patch Panels. However, the more patch panels the cable is routed through, the greater the chance of video signal degradation.

Diagnostic LEDs on the Voyager DVI

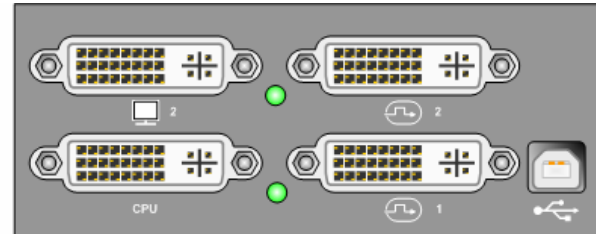
LED	Appearance	Diagnostics
Power LED (Red)	Off On	Device not ready Device Ready
Video LED (Green)	Off On	No Signal or Invalid Signal Device Ready
Link Status (Green) (Right LED on RJ45 connector)	Blinking On	No CAT5 Connection Device Ready
Data Status (Green) (Left LED on RJ45 connector)	Blinking / On Off	Data Error – Cable too long or too much interference etc. Device Ready

Quick Setup System Guide

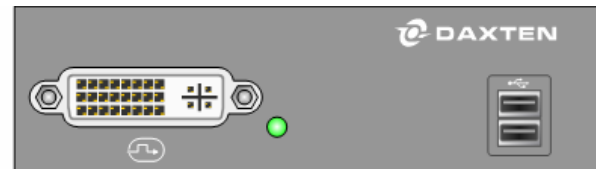
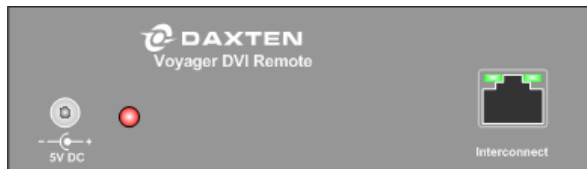




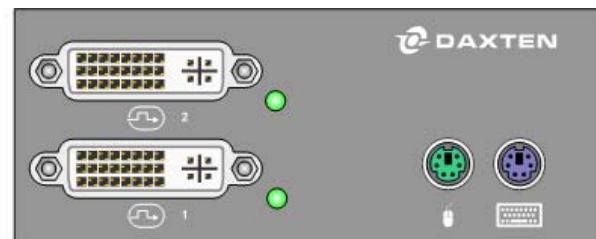
Front & Rear Panel Layout Voyager DVI Single head PS/2 – Local Unit



Front & Rear Panel Layout Voyager DVI Dual head USB – Local Unit



Front & Rear Panel Layout Voyager DVI Single head USB – Remote Unit



Front & Rear Panel Layout Voyager DVI Dual head PS/2 – Remote Unit

Note: The Voyager DVI USB only supports USB Keyboards and Mice. Other HID types (Human Interface Device) are not supported, even though some Touch Screens, Graphic Tablets, Barcode readers or similar devices may work, this cannot be guaranteed. The Voyager DVI USB is not suitable for Web Cams, scanners, hard drives etc.

Service Information

Technical Support

If you cannot determine the nature of a problem, please call Daxten and ask for Technical Support. If possible, call from a phone located near the unit, as we may be able to solve your problem directly over the phone. If we cannot solve your problem, and determine that the fault is in the unit, we will issue a Return Material Authorisation (RMA) number that must appear on the outside of all returned products. The unit should be double-packed in the original container, insured, and shipped to the address given to you by our Technical Support representative. The Technical Support offices are found on the back of this manual.

Limited Warranty

Daxten warrants to the end user that this product is and will be free from defects in materials and workmanship for a period of 24 months from the date of purchase. If during the warranty period the product should fail, the purchaser must promptly call Daxten for a RETURN MATERIALS AUTHORIZATION (RMA) number. Make sure that the RMA number appears on the packing slip, proof of purchase, AND ON THE OUTSIDE OF EACH SHIPPING CARTON. Unauthorized returns or collect shipments will be refused.

Ship prepaid to the Daxten office (see back page) where you purchased your product. The above limited warranty is voided by occurrence of any of the following events, upon which the product is provided as is, with all faults, and with all disclaimers of warranty identified below:

1. If non-Daxten approved power supply or cabling is attached to the product.
2. If defect or malfunction was caused by abuse, mishandling, unauthorized repair, or use other than intended.
3. If unauthorized modifications were made to product.
4. If unreported damages occurred in any shipment of the product.
5. If damages were due to or caused by equipment or software not provided by Daxten.
6. If the product is used with non-grounded or incorrectly polarized AC power.
7. If the product is used in contradiction to any instruction provided by any User Guide or Instruction Sheet provided to you or with the product.

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Waste Electrical and Electronic Equipment (WEEE)



Within the European this symbol indicates that this product should not be disposed in household waste. It should be deposited at an appropriate facility to enable recovery and recycling. For information on how to recycle this product, please check with the reseller of the product that replaces this product "Take Back" or the original seller of this product.





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