Extender

User manual

VGA Video & Audio Extender

Introduction

Thank you for purchasing our VGA Video & Audio extender. The extender transmits VGA video and audio up to 300 meters away from a computer using CAT5/5e/6 cable. Each extender consists of a local unit that connects to a computer and also supplies VGA video and audio to the local and a remote unit. Split the video signal and audio signal into 2 monitors and speakers.

Package includes

Local unit
Remote unit
2 Power adapters
1 VGA cable
1 3.5mm Stereo audio cable
1 User manual
1 crossed screwdriver

Features

• Split one VGA video signal and one audio signal from one source into 2 monitors and speakers and extend it up to 100 meters (EX1010A) or 200 meters (EX1020A) or 300 meters (EX1030A) or 450 meters (EX1045A)

• Supports local monitor and speaker
• Uses standard Category 5/5e/6 straight-wired, twisted-pair, network patch cable for economical and reliable data transmission
• No software required
• Provides crystal clear picture quality
• Supports maximum video resolution - 1280x1024
• Supports VGA, SVGA, and Multisync monitors
• Built-in surge protection

Specifications

Maximum Resolution	1280 X 1024
Max. Distance	EX1010A : 100 meters EX1020A : 200 meters EX1030A : 300 meters EX1045A : 450 meters
Audio Frequency Response	20 Hz to 20 kHz, +/- 1 dB
Audio Input Impedance	10k Ohms
Line Level Output	Supports multimedia speakers
Video Quality Adjustment	Auto or Manual
Connect with PC	One High Density DB15 Male; One 3.5mm female stereo audio jack
Local Video and Audio	One High Density DB15 Female; One 3.5mm female stereo audio jack
Connect with User	Two High Density DB15 Female; Two 3.5mm female stereo audio jack
Subunit Connector	RJ45(connect local unit and remote unit)
Cable Type	Category 5/5e/6 UTP
Power Adapter	2 X DC 12V/1A

LEDs	Local unit : One for power, one for Video, one for Audio Remote unit : One for power, one for Video, one for Audio
Dimensions	108 X 94 X 26 mm

Installing the Local unit

(1) Connect a female-to-male HD-15 VGA cable to the VGA Out port on the local computer. Connect the opposite end to the male 15HD port on the Local unit.

(2) Connect a male-to-male headphone audio cable to the Speaker Out port on the local computer. Connect the opposite end to the audio in port on the Local unit.

(3)If you wish to use local displays and speakers, connect them to the female 15HD port and the Speaker port on the Local unit.

(4)Connect the Ethernet cable connection for Remote Unit tto the RJ-45 connector labeled with REMOTE I/O on the Local unit. The cable such as CAT5, CAT5E, CAT6 can be used, both terminal of the cable should be made according to EIA/TIA568B standard.

(5)Connect the power adapter into an appropriate power source and plug the opposite end into the power connector on the Local unit. The POWER LED will light.

Installing the Remote unit

(1)Connect the data cable from the display(s) to the opposite side of the Remote Unit,

marked with monitor. You may choose to have either one or two displays at the remote location connected to the Remote Unit.

(2) Connect one or two sets of speakers to the speaker ports marked with speaker on the Remote unit.

(3)Connect the Remote Unit to the Ethernet cable connection from the Local unit,marked with REMOTE I/O. The cable such as CAT5, CAT5E, CAT6 can be used, both terminal of the cable should be made according to EIA/TIA568B standard.

(4) Connect the power adapter into an appropriate power source and plug the opposite end into the power connector on the Remote unit. The POWER LED willlight.

Display & Adjustment

You should adjust corresponding parameters in order to get the best image effect according to the difference of usage distance.

Under the condition of image being shown on display, you can adjust four adjustable turn knob on Remote unit by the

screwdriver attached, and adjust signal compensation (marked with GAIN) and the red one (labeled with R), green one(labeled with G) and blue one (labeled with B) respectively, which makes the effect to the best status.
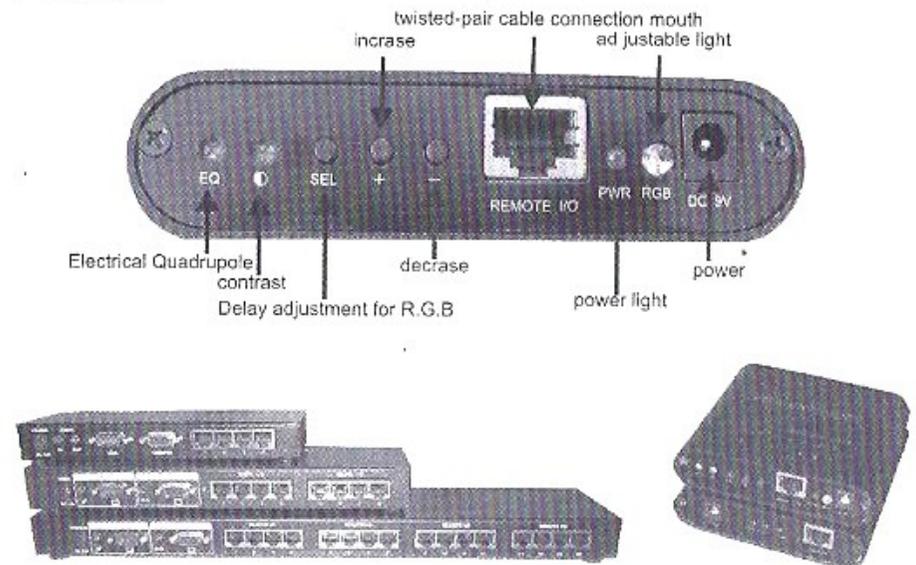
Troubleshooting

Each and every piece of every product produced by us is 100% tested to exacting specifications. We make every effort to insure trouble-free installation and operation of our products. If problems are experienced while installing this product, please look over the troubleshooting chart below to see if perhaps we can answer any questions that arise. If the answer is not found in the chart, please contact us for help.

Problem	Solution
No video on monitor	(1) Check the power adapters. Make sure they are connected to the Remote unit and the Local unit. (2) Check all video cable connections (3)Check UTP cable, make sure it is EIA/TIA568B type.

Video signal is foggy or un-clear on the screen	(1) Check all connections. Make sure all cables are fully seated. (2) Check cable connections. Make sure they are snapped-in properly and completely. (3) You should adjust corresponding parameters according to the difference of usage distance in order to get the best image effect
Monitor sometimes loses sync, causing it to go blank for a second or two	(1)Electrical power system is very noisy, particularly the ground. (2) Make sure the interconnection cable is not near any power lines.

Pictures

twisted-pair cable connection mouth
incrase
ad justable light
EQ   SEL   +   −   REMOTE I/O   PWR RGB   DC 9V
Electrical Quadrupole
contrast
Delay adjustment for R.G.B
decrase
power light
power

KVM Video & Audio Extender

Introduction

Thank you for purchasing our KVM extender. The KVM Extender is designed to enable one PS/2 CPU to be controlled by two users, one local and one remote. The remote user can be located as much as 300 meters away from a PS/2 CPU via Category 5 unshielded twisted-pair cable. The local user will be located near the PS/2 CPU. For ease of installation, this product uses standard Category 5, 5E, or 6 network cabling that fits easily into almost any existing network infrastructure.

Package includes

Local unit
Remote unit
2 Power adapters
1 KVM cable
1 User manual
1 CPU power controlling cable
1 crossed screwdriver

Features

• Extend keyboard, monitor and mouse (KVM) up to 100 meters (100 meters EX1010C) or 200 meters (EX1020C) or 300 meters (EX1030C) or 450 meters (EX1045C) away with a single UTP cable

• Can turn on/off or reset the CPU from the remote unit
• Provides the local and remote KVM function
• High quality video resolution of up to 1280*1024
• Three independent RGB adjusters and one equipoise adjuster for image quality adjusting
• Local DDC function
• Works on any PS/2 compatible hardware platform and with all operating systems
• Support Microsoft Intellimouse, Logitech Net Mouse and other MS compatible mouse
• Keep-alive keyboard/mouse emulation for flawless operation
• High Safety in installation and operation - not to make the host die as the incorrect power sequence
• Pure hardware solution - software/network independent
• Built-in surge protection
• Economical and compact

Specifications

Maximum Resolution	1280 X 1024
Video Quality Adjustment	Manual
Max. Distance	EX1010C : 100 meters EX1020C : 200 meters EX1030C : 300 meters EX1045C : 450 meters

Connect with PC	One 3-in-1 KVM cable for PS/2 keyboard, PS/2 mouse and VGA monitor; One 4 pin connector for CPU power on/off
Local KVM	One 6 pin mini-DIN Female (PS/2) for keyboard; One 6 pin mini-DIN Female (PS/2) for mouse; One HD-15 Female for monitor
Connect with User	One 6 pin mini-DIN Female (PS/2) for keyboard; One 6 pin mini-DIN Female (PS/2) for mouse; One HD-15 Female for monitor
Subunit Connector	RJ45(connect local unit and remote unit)
Power Adapter	DC 12V/1A
LEDs	One for power, one for link
Buttons	Local unit : N/A Remote unit : One for PC power on/off, one for PC reset

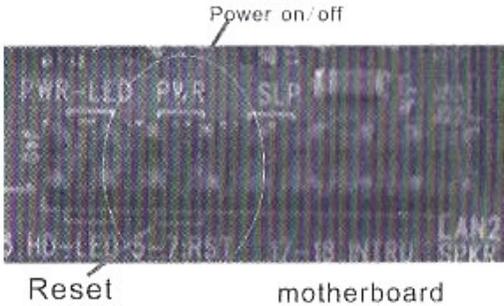## Local unit installation

(1)Turn off the PC power.
(2)Attach the female-HDB15 end of the 3-in-1 custom KVM-KVM cable to the port labeled PC on the Local unit, plug the

keyboard, mouse and video connectors of the attached KVM cable into their respective ports on the computer you are installing.

(3) For the function of local KVM, please connect the keyboard, mouse and monitor with the corresponding ports onto the Local unit.

(4) Insert the UTP cable into the port labeled with REMOTE I/O.The cable such as CAT5, CAT5E, CAT6 can be used, both terminal of the cable should be made according to EIA/TIA568B standard. Note: Must be 568B. In addition, cable quality will affect the video transmission quality, too bad cable will make the image unclear, color separation and decreasing transmission distance evidently.

(5) If need the function of turning on/off the PC by Remote unit, you can operate according to the following step, otherwise you can skip over this step which should be operated by PC professional.

Connect the end of the switch control cable attached into the port on Local unit labeled with RST PWR.

Open PC cabinet, as shown below

Power on/off

Reset   motherboard

Unbolt the PC power control cable connecting on pin of PC motherboard marked with PWR and connecting with power button on PC cabinet board; replaced by corresponding control cable of Local unit and inset into the pin on the motherboard marked with PWR; Insert the original power control cable then connect onto derivative pin corresponding to power control cable attached on Local unit.

Unbolt the PC reset control cable connecting on pin of PC motherboard marked with RST and connecting with reset button on PC cabinet board; replaced by corresponding control cable of Local unit and inset into the pin on the motherboard marked with RST; Insert the original reset control cable then connect onto derivative pin corresponding to reset control cable attached on Local unit.

Then close the PC cabinet.

(6) Connect the power adapter into power port of Local unit.

(7) Turn on the PC power.

Remote unit installation

(1) Connect the keyboard with the port onto Remote unit marked with keyboard.

(2) Connect the mouse with the port onto Remote unit marked with mouse.

(3) Connect UTP cable into the port labeled with REMOTE I/O onto Remote unit, thus the Remote unit and the Local unit will be connected.

(4) Then connect the power adapter and turn on the power.

Operation
Local unit

When the Local unit power on, the LED labeled with POWER lights that indicate it is on working. And the LED labeled with ONLINE lights that indicate the Local unit and the Remote unit were linked.

Remote unit

When the Remote unit power on, the LED labeled with POWER lights. When the LED labeled with ON LINE lights, it indicate the Local unit and the Remote unit were connected.

The Remote unit support plug and play to keyboard, mouse and monitor. You can use keyboard and mouse freely whenever you like, even during the PC boot up, as well as connecting, unbolting or changing the type of those. You can also control & operate on PC, you can turn on or off PC by pressing the front button labeled with PWR on Remote unit, and reset PC by pressing the front button labeled with RST on Remote unit.

Remote unit

When the Remote unit power on , the LED labeled with POWER lights. When the LED labeled with ON LINE lights, it indicate the Local unit and the Remote unit were connected.

The Remote unit support plug and play to keyboard, mouse and monitor. You can use keyboard and mouse freely whenever you like, even during the PC boot up, as well as connecting, unbolting or changing the type of those. You can also control & operate on PC, you can turn on or off PC by pressing the front button labeled with PWR on Remote unit, and reset PC by pressing the front button labeled with RST on Remote unit.

Display & Adjustment

You should adjust corresponding parameters in order to get the best image effect according to the difference of usage distance.

Under the condition of image being shown on display, you can adjust four adjustable turn knob on Remote unit by the screwdriver attached, and adjust signal compensation (marked with GAIN) and the red one (labeled with R), green one(labeled with G) and blue one (labeled with B) respectively, which makes the effect to the best status.

Troubleshooting

Each and every piece of every product produced by us is 100% tested to exacting specifications. We make every effort to insure trouble-free installation and operation of our products. If problems are experienced while installing this product, please look over the troubleshooting chart below to see if perhaps we can answer any questions that arise. If the answer is not found in the chart, please contact us for help.

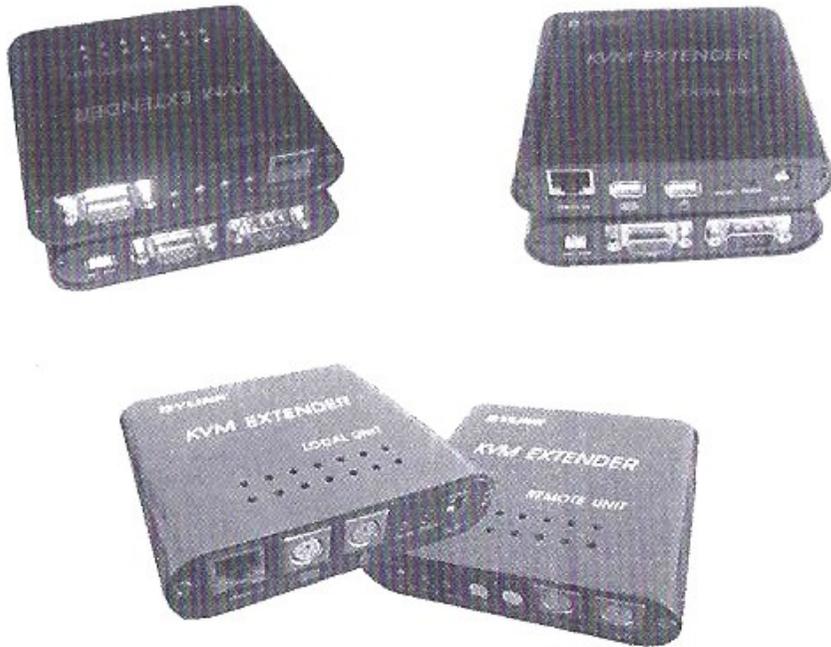| Problem	Solution
No video on monitor	(1) Check the power adapters. Make sure they are connected to the Remote unit and the Local unit. (2) Check all video cable connections (3)Check UTP cable, make sure it is EIA/TIA568B type, make sure the ONLINE LED lights.
Video signal is foggy or un-clear on the screen	(1) Check all connections. Make sure all cables are fully seated. (2) Check cable connections. Make sure they are snapped-in properly and completely. (3) You should adjust corresponding parameters according to the difference of usage distance in order to get the best image effect

13

14

Monitor sometimes loses sync, causing it to go blank for a second or two	(1)Electrical power system is very noisy, particularly the ground. (2) Make sure the interconnection cable is not near any power lines.
CPU doesn't detect the keyboard and the mouse	(1)Keyboard cable or mouse cable are loose or reversed

Pictures

DVI Extender

Introduction

Thank you for purchasing a DYLINK CAT5 DVI Extender. The DYLINK EX101D DVI CAT-5 Extender transmits digital DVI video up to 50 meters away from a DVI source using single CAT5/5e/6 cables. Each video extender consists of a local unit that connects to a DVI source, and a remote unit that connects to a monitor.

Package includes

Local Unit EX101D-L
Remote Unit EX101D-R
DVI A-A 1x1.5m cable
2 x Power Adapters

Features

- Extends any DVI compliant device up to 50 meters from the computer Uses single CAT-5/5e/6 cable
- Supports VESA Standard resolutions and HDTV resolution,High quality video resolution of up to 1920 x 1200 @60Hz /1080p
- Supports DDWG standard for DVI compliant monitors
- Supports system restart
- Improved compensation for cable skew

Specifications

Specifications	Local unit EX101D-L
connect with remote	RJ45
Connect with PC	DVI Male
Power adapter	Yes
Power adapter	One for power
Dimensions	120mm x 64mm x 29mm
Specifications	Remote unit EX101D-R
connect with remote	RJ45
Connect with PC	DVI Male
Power adapter	Yes
Power adapter	One for power
Dimension	120mm x 64mm x 29mm

Installation

1. Turn off the source PC and the intended display.

2. Position the EX101D Remote Unit near the intended display. Similarly, position the Local Unit near the computer. Please note that both units will require a power connection, so please ensure that each unit is situated near an available power outlet.

3. Connect the source PC to the "DVI In" port on , the rear panel of the local unit, using a DVI male/male cable.

4. Connect the intended display to the "DVI Out" port located on the rear panel of the Remote Unit, using a DVI male/male cable.

5. Connect the Local Unit to the Remote Unit, using standard CAT5 cable (terminated at both ends with an RJ45 connector).

6. Connect the power adapters (provided) to both Local and Remote Units.

7. Turn on the PC and monitor.

Pictures