True Transparent USB Emulation Technology
7.1 surround sound support
1920 x 1200 (digital) / 2048 x 1536 (analog) resolution
2 x USB 2.0 hub port + 1 X DEVICE port with full driver support for any advanced USB 2.0 device
User-definable Hotkey Preceding Sequence

LDV-DM712AUSK/LDV-DM714AUSK
2/4-port Dual Monitor DVI KVM Switch
w/ 7.1 surround sound support
Quick Installation Guide

Thank you for purchasing the **LDV-DM712AUSK/LDV-DM714AUSK Dual Monitor DVI KVM Switch w/ 7.1 surround sound support**! With our highly reliable and quality product, user can enjoy countless benefits from using this KVM Switch.

LDV-DM712AUSK

LDV-DM714AUSK

Introduction

The **LDV-DM712AUSK/LDV-DM714AUSK Dual Monitor DVI KVM Switch** is a 2/4-port TMDS-compliant Dual Monitor DVI KVM Switch designed for sharing two monitors/Flat Panel Displays –one DVI and one VGA monitor specifically - between multiple multimedia computers with Dual Head display [1 x DVI + 1 x VGA]. Its 7.1 channel surround sound renders a theater digital audio experience that greatly enlivens your DVD playbacks or gaming sessions. You can sit back and enjoy to the full with live audio/video output from this KVM switch.

This Dual Monitor DVI USB KVM Switch supports both digital video (1920 x 1200) and analog video (2048 x 1536) for your maximum convenience in adapting to your display requirements. It is TMDS-compliant to support DDC2B emulation and HDCP compliant for digital contents protection.

This Dual Monitor DVI USB KVM Switch features the latest **True Transparent USB (TTU) Emulation Technology** for full compatibility to all types of keyboards and mice. It also supports **All Time Full DDC Emulation** for ultimate video compatibility with all graphic display scenarios with the latest operating system.

The **two USB 2.0 Hub Ports** and **one USB 2.0 Device Port** (topmost one, marked **Device Port**) are for sharing high-speed USB 2.0 devices. The USB Device Port and the rest of the two USB Hub Ports actually belong to two independently operating groups, and can configure separately for independent/simultaneous switching with the PC channel. These three USB ports can well offer full driver support to more advanced USB 2.0 gadgets, since they are having no emulation and can facilitate a direct signal pass-through required for these advanced devices. For example, you can connect a transceiver of your advanced wireless/Bluetooth keyboard/mouse to either of the three USB 2.0 ports, enabling its full driver and functional support.

In addition to the keyboard hotkey operation, it provides a full set of keyboard hotkeys to facilitate your KVM switching operations such as PC selection and hotkey sequence programming, autoscanning, autoscan delay time programming, independent/ simultaneous audio&PC switching, etc.

Out-of-the-box Installation

Take the KVM Switch out of the box and begin installation….

Step 1. Power up you KVM Switch by connecting the external power adapter to it.

Step 2. Connect the shared USB keyboard, mouse, two monitors *and the 7.1 channel speaker system and microphone* as well as other shared USB devices to the KVM switch. If you use an advanced USB device (such as wireless/Bluetooth mouse, etc) that needs its own driver for full function, you can connect it to either the Device port or Hub ports.

Step 3. Connect each of your computers to the KVM switch, using the DVI-I video cable, VGA cable, USB (Type A-to-Type B) cable and audio & Mic cables (see the pictures below).

DVI - I Video Cable

VGA Cable (HDB15)

USB cable (TypeA-to-TypeB)

Audio/Mic

If you need to connect your KVM switch to analog video display card or analog display monitor, you have to use DVI-HDB adapters for interface conversions. This KVM Switch supports digital video – 1920 x 1200 / analog video – 2048 x 1536

Step 4. (*Now your KVM Switch should have been powered-up….*) Power up the connected computers one by one. After your computers are powered up, the keyboard and mouse will be recognized and now you can begin operating the KVM switch.

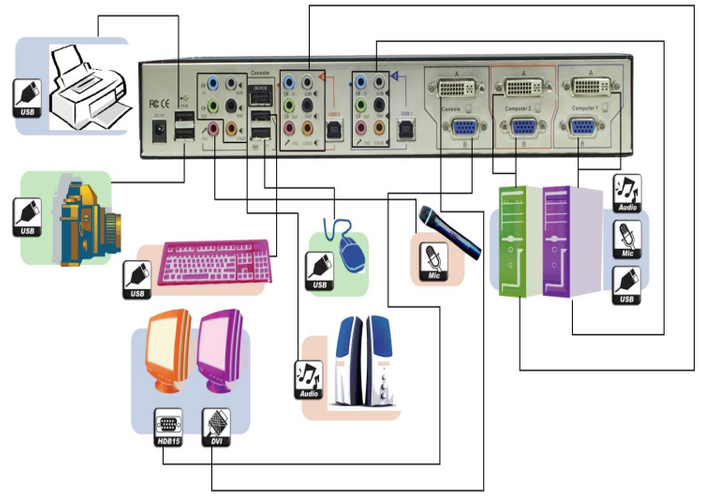
And also you should verify the USB device on your Device Port are fully functioning after installation of its driver on both connected PCs

Easy Operation

There are two methods to control your KVM Switch for PC, USB hub port as well as audio/mic channel selection: using the *front-panel push buttons and* a *hotkey sequence.*

Front-panel buttons

The front-panel buttons let you have direct control over KVM switch operation and channel switching. Simply press the *PC* button for PC port switching (and if binding is enabled between PC / USB hub port control / audio & mic switching, they will be jointly selected at the same time). If you want to enable the binding of PC / Hub port control / Audio&Mic switching, use the hotkey sequences. *See Quick Reference Sheet*



Basic configuration (showing only LDV-DM712AUSK)

Keyboard hotkey

A keyboard hotkey sequence consists of at least three specific keystrokes: *See Quick Reference Sheet*

Hotkey sequence = [ScrLk]* + [ScrLk] * + *Command key(s)*
*** User-definable = SCROLL LOCK, CAPS, ESC, F12 or NUM LOCK**

Hotkey preceding sequence configuration: For users who want to use a preceding sequence other than two consecutive Scroll Locks, there is also one convenient way to configure it. **(1)**Hit ScrollLock + ScrollLock + H, then two beeps will signal readiness for new preceding sequence selection [or Press and hold down the last front-panel button (Button 2) until you hear two beeps, then release the button.] **(2)** Select and press the key you would like to use as your preceding sequence (**SCROLL LOCK**, **CAPS**, **ESC**, **F12 or NUM LOCK** keys are available for selection) and you'll hear a beep for selection confirmation. Now you can use the new preceding sequence to execute your hotkey commands.

Each keystroke within a hotkey sequence should be pressed within 2 seconds. Otherwise, the hotkey sequence will not be validated.

For detailed Hotkey sequences and their corresponding functional commands, please refer to the Quick reference sheet.

FC CE **RoHS Compliant**

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Quick Reference Sheet

2/4-port Dual Monitor DVI KVM Switch w/ 7.1 surround sound support -- Operation Commands for Hotkeys / Front-Panel Buttons

Hotkey sequence = [ScrLk]* + [ScrLk]* + *Command key(s)* `* User-definable Preceding sequence = SCROLL LOCK, CAPS, ESC, F12 or NUM LOCK`

Command	Hotkeys[1]	Front-panel Buttons	Description
Select PC Channel [2] (Joint-select PC port/hub port control/audio&mic, if binding is enabled)	ScrLk + ScrLk + (x) (x is a top-row number key) x = 1~2 / x = 1~2 for PC channel no	Press the corresponding button to select the active PC channel	Select the active PC channel (Joint-select *PC port/hub port control/audio&mic* , if binding is enabled)
Select Hub Port Control [2] (Joint-select PC & Hub port control, if binding is enabled)	ScrLk + ScrLk + (Fx) *For hub ports (the bottom two USB hub ports)* *Fx = F1~F2 / Fx = F1~F4 ;* Fx is a function key ; *x = 1~2/ x = 1~4 for PC channel no*	*(Press the corresponding button to select the specific PC+USB hub port control --works only if PC port/hub port control binding enabled)*	Select the PC channel that control all USB hub ports (Joint-select PC & Hub port control, if PC/hub port control binding is enabled)
Select Audio&Mic Channel [4] (Joint-select PC port & audio/mic , if binding is enabled)	ScrLk + ScrLk + (Fy) *Fy = F5~F6/ Fy = F5~F8 ;* Fy is a function key ; *y = 5~6/ y = 5~8 for audio channel no*	--	Select the active Audio&Mic channel (Joint-select PC & audio&mic channel, if binding is enabled)
Bind PC & Hub Port Control Switching [2] [Default]	ScrLk + ScrLk + Z	--	Enable the binding of PC port and hub port control switching. (Once this feature is enabled, any pc and/or hub port control switching is bound together) ***(factory default)***
Unbind PC & Hub Port Control Switching [2]	ScrLk + ScrLk + X	--	Disable the binding of PC port and hub port control switching
Bind PC & Device Port Control Switching [Default]	ScrLk + ScrLk + D	--	Enable the binding of PC port and DEVICE port control switching. (Once this feature is enabled, any pc and/or DEVICE port control switching is bound together) ***(factory default)***
Unbind PC & Device Port Control Switching [4]	ScrLk + ScrLk + F	--	Disable the binding of PC port and DEVICE port control switching
Select Device Port Control [2] (Joint-select PC & Device port control, if binding is enabled)	ScrLk + ScrLk + (Fz) *Fz = F9~F10 / Fz = F9~F12 ;* Fx is a function key ; *z =9~10/ x =9~12 for PC channel no*	--	Select the PC channel that control the DEVICE port (Joint-select PC & DEVICE port control, if PC/DEVICE port control binding is enabled)
Bind PC & Audio/Mic Switching [4] [Default]	ScrLk + ScrLk + Q	--	Enable the binding of PC port and audio&mic switching. (Once this feature is enabled, any pc and/or audio&mic switching is bound together) ***(factory default)***
Unbind PC & Audio/Mic Switching [4]	ScrLk + ScrLk + W	--	Disable the binding of PC port and audio&mic switching
Next lower PC channel [2] (Joint-select PC /hub port control/audio&mic, if binding is enabled)	ScrLk + ScrLk + ↑ *(arrow up)*	--	Select the next lower connected PC channel (Joint-select PC/hub port control/audio&mic, if binding is enabled)
Next higher PC channel [2] (Joint-select PC /hub port control/audio&mic, if binding is enabled)	ScrLk + ScrLk + ↓ (*arrow down*)	--	Select the next higher connected PC channel (Joint-select PC/hub port control/audio&mic , if binding is enabled)
Previous PC channel	ScrLk + ScrLk + ← *(Backspace)*	--	Toggle between the previous channel and current channel
Beep Sound On/Off	ScrLk + ScrLk + B	--	Toggle on/off the beep sound while autoscanning
Define Hotkey Preceding Sequence	ScrLk + ScrLk + H + (y) *y = SCROLL LOCK, CAPS, ESC, F12 or NUM LOCK*	Press and hold down last button (Button 2) till two beeps, release the button, then press (y) key	Select the hotkey preceding sequence among 5 alternative keys
Autoscan	ScrLk + ScrLk + S	--	Autoscan through every connected channel for quick screen browsing of each channel (scan delay = 5 sec.).
Autoscan with Programmable Delay Time	ScrLk + ScrLk + S + (z) *z =* 0~9 1 → 10" ; 2 → 20" ; 3 → 30" ; 4 → 40" ; 5 → 50" 6 → 60" ; 7 → 70" ; 8 → 80" ; 9 → 90" ; 0 → 100"	--	Autoscan with a user-defined delay time within a range of 10 ~ 100 seconds
Stop Autoscan	*Press any key on keyboard*	*Press any button*	Terminate Autoscan activity

Notes:

1. The USB keyboard hotkeys allows you a faster and broader control for your KVM switching operation in addition to the front-panel buttons. ***If you have configured a hotkey preceding sequence other than two consecutive scroll locks, you should change your hotkey sequence accordingly*.(For preceding sequence key configuration, please refer to Quick Installation Guide)**

2. When the binding of PC & USB hub port control switching is enabled by the hotkey sequence: ScrLk + ScrLk + Z, any PC and hub port control switching are bound together. To remove this binding, use the hotkey sequence: ScrLk + ScrLk + X.

3. When the binding of PC & Audio&Mic switching is enabled by the hotkey sequence: ScrLk + ScrLk + Q, any PC and audio&mic switching are bound together. To remove this binding, use the hotkey sequence: ScrLk + ScrLk + W.

LED Information: *Green LED indicates PC port status: solid green – active port; flashing green – PC not connected; Red LED indicates hub port control status: solid red – that PC has the control of all hub ports.*

Important Note*: The USB hub control status LED (red) indicates not the connected status of each USB device, but indicates which PC port has the control of all hub ports and their connected devices. For example, when USB LED 1 is lit, it means PC port 1 has the current control of all hub ports and their connected USB devices.*