

VCube
HD VIDEO SYSTEM

Installation Guide

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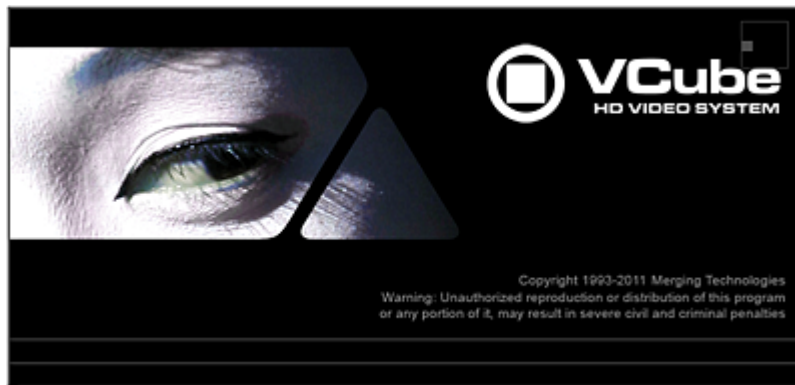
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Installation Guide

Installation Guide : Contents

1 Introduction	6
Thank you!	6
Scope	6
2 VCube Overview	7
3 For Users Performing Upgrades	9
4 System Requirements	10
VCube Native	10
5 PC Setup	11
Motherboard Drivers and Utilities	11
Display Settings	11
Power Management	11
Aero graphics	11
Indexing	11
Other Applications	11
Recommended options	11
6 Sync Board and Video Card Installation	12
Sync Board	12
7 VCube Software Installation	14
Installation Overview:	14
Driver Signing	14
Running the Installer	15
8 VCube Software Registration	18
9 Troubleshooting	19
10 Lost or Stolen Merging Technologies Security Keys	20
11 Contacting Merging	21
International Office:	21
UK:	21
USA:	21
12 Index	22

Installation Guide



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1 Introduction

Thank you!

Congratulations on your purchase of the **VCube** Highdefinition Video System
You have joined a worldwide community of users who have already discovered the Merging Technologies advantage.

Note: IMPORTANT! - The first thing you need to do is register your software to be included in our user support list.

<http://www.merging.com/register/>

Please also subscribe to the User Forum at:

<http://forum.merging.com/>

Scope

This document is intended to get you up and running with VCube as quickly as possible. For more detailed information about Ovation, Pyramix and VCube please see the PDF User Guides which are installed with the software.

If you have purchased VCube as an integrated (Turnkey) system, the installation information in this guide will be redundant, since these systems come with all hardware and software pre-installed. If you are configuring your own system, please refer to the following instructions.

2 VCube Overview

VCube is a hard-disk based video player / recorder solution designed specifically for use in audio post production and anywhere where high quality playout is required. VCube can operate as a standalone unit, or as part of a multi-system network, fully integrated with Pyramix or Ovation, through standard Ethernet. Like Pyramix it offers sync to PAL, NTSC, 24fps Film and all the HDTV frame rates. VCube can also be controlled via the 9-pin Sony P2 protocol by any third-party DAW system, as well as controlling any 9-pin controllable VTR for capturing. VCube fully supports the Merging Technologies Virtual Transport technology.

The integrated video editor with multi-track, multi-layer features enables the VCube user to remove, add or trim Media Files imported from a Composition (VCube native or OMF AAF, MXF and Apple XML are optional). VCube is able to mix different formats in the same Timeline. It is only necessary to specify the output format. All video Clips will be resized to this format in real time. Therefore it is possible to play out an HD file on a standard SD output... VCube is an open solution that can import OMF, AAF, MXF and Apple XML Compositions. VCube XE and SE are also able to convert, and render Media. A password protected watermark feature allows the administrator to tag both video and graphic outputs. The administrator can also protect VCube settings with a second password.

VCube will be your Swiss Army Knife in the video jungle.

Items included with VCube:

- Installation Media with VCube software.
- Sentinel USB security dongle. The security dongle authorizes both the VCube application and any optional features.
- This Installation Manual
- An appropriate video card (depending on purchase)
- Video card breakout cable. (depending on purchase)

If you have purchased VCube as an integrated (Turnkey) system, the installation information in this guide will be redundant, since these systems come with all hardware and software pre-installed. If you are configuring your own system, please refer to the following instructions.

3 For Users Performing Upgrades

Note: New V6 Keys have been issued for VCube V6 users. Be aware that V5 keys will only work with the Beta versions of VCube 6.

Note: Windows 7 64-bit and Windows 8.1 64-bit are the only operating systems supported.

VCube

We recommend uninstalling any previous version of VCube before installing VCube 6.

- From the Windows Control Panel select **Programs and features**.
- Remove the installed version of VCube.
- Reboot the PC.

4 System Requirements

Wintel platforms tend to increase in number of cores, speed and performance at a tremendous rate. New and faster processors are released almost on a monthly basis. Therefore we have not included suggested Motherboard or Processor specifications here.

We maintain a list of up to date PC configurations in the Support Section of our website at:

<http://www.merging.com/pages/pconfig>

Other Components

- **Graphics Card:** The recommended graphics cards are the **ATI FIREPRO** series of PCIe graphics cards.
- We recommend disks should be formatted as **NTFS** volumes.
- **DVD/CD-ROM** combo drive or better
- SXGA 17" monitor or better. Multiple 19" monitors highly recommended.
Minimum resolution 1280x1024
- 3 button mouse

VCube Native

Certified Operating Systems

- **OS:** We recommend and certify **VCube Version 6.x** under **Windows 7 Professional 64-bit** and **Windows Professional 8.1 64-bit**.

5 PC Setup

Motherboard Drivers and Utilities

Motherboard drivers should be updated to current versions.

Motherboard Utilities should NOT be installed.

Display Settings

VCube requires a minimum display resolution of 1280x1024 in 256 colors which **MUST** be set to **small fonts** mode. In Windows 7 environments we strongly recommend turning **OFF** the Aero feature for maximum performance.

Power Management

N.B. As with other Digital Audio Workstations and Non-Linear Editors, we recommend setting the PC to the **High Performance** Power management scheme.

Aero graphics

Disable AERO themes for maximum performance.

Indexing

In the interests of better performance we recommend turning Indexing OFF for all Data drives in the system.

Other Applications

Like all real-time applications, VCube works best when there are no other unnecessary applications or services running.

Recommended options

Internet Connection (this will allow you to upgrade the software easily by connecting to our Web site, and to communicate queries or suggestions to Merging by Email).

6 Sync Board and Video Card Installation

IMPORTANT NOTICE:

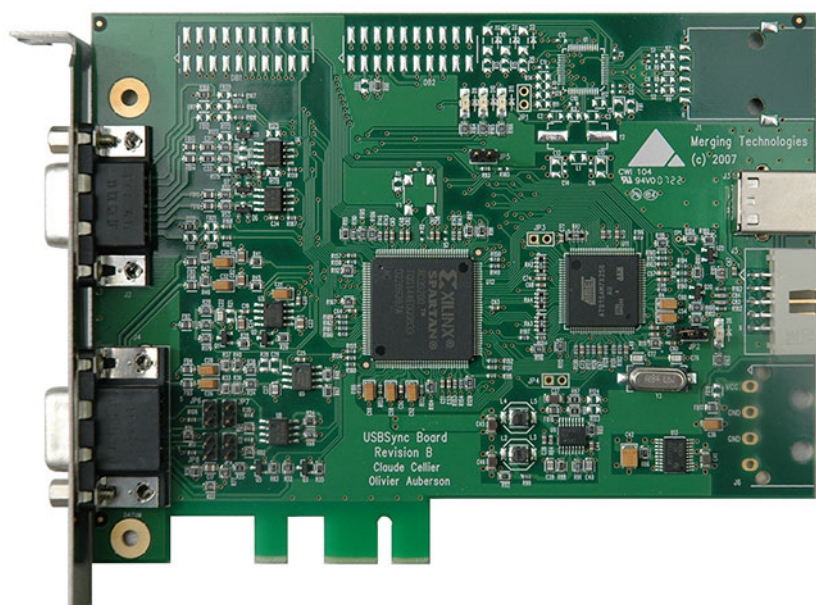
Please read the following information very carefully before attempting installation. Failure to comply with the precise instructions may result in damage to your hardware. Please read the entire chapter carefully before installation.

STATIC DANGER NOTICE:

Please note that the sync and video cards contain delicate electronic components that can be damaged or even destroyed when exposed to static electricity. Please take all of the necessary precautions when handling the video card and all other PC computer cards.

If you are in any doubt about your competence to install PC hardware please consult your Merging technologies Sales Partner.

Sync Board



The Sync Board hardware option enables RS-422, LTC, MIDI (MTC) input and optional Bi-Phase input to control or to be controlled by VCube.

Note: Please see also the documentation accompanying the Sync Board before attempting installation.

The PCI(e) slot is only used to support the board mechanically. The connection to the mother board is via a USB link. USB 1.1 is sufficient but a USB 2 socket can be used if available.

Inserting the Sync Board:

Make sure the computer is turned off (and unplugged) before installing the Sync Board.

- To avoid the possibility of static electricity damage to the PC or the Sync Board please use an anti-static strap to connect yourself to a known good earth.
- Remove the computer covers required to gain access to the peripheral slots.
- Identify a vacant PCI(e) slot. Remove the slot / bracket for the chosen PCI(e) slot.
- Insert the Sync Board into the PCI(e) slot.
- Fasten the mounting screw to secure the Sync Board back-plate to the PC frame.

- Identify a vacant USB socket and insert the 5-pin plug of the USB cable (supplied), the red wire being pin 1. (This leaves one half of the dual USB port free for another connection if required.)
- Insert the other end of the cable (10-pin) into connector on the Sync Card.

Inserting the Video Card

- Make sure the computer is turned off (and unplugged) before installing the video card.
- To avoid the possibility of static electricity damage to the PC or the video card please use an anti-static strap to connect yourself to a known good earth.
- Remove the computer covers required to gain access to the peripheral slots.
- Locate a free PCIe x4 slot. Remove a slot / bracket for the chosen PCIe slot.
- Insert the video card into the chosen PCIe slot.
- Fasten the card in place with the screw removed earlier.
- Replace the computer covers.

7 VCube Software Installation

Note: You must have full Administrator Access to install VCube.

Installation Overview:

Note: Note: If you have purchased hardware options such as the Sync Board, or a video card, please install these first following the instructions in the accompanying documentation.

Installer

The VCube software uses an automated installer wizard which will install all necessary prerequisites. We use a unified installer package containing the current versions of Pyramix, VCube and Ovation. The initial installer screen offers the choice of Pyramix, VCube and Ovation. Choosing Ovation will also install Pyramix.

You may exclude the installation of any of the individual components in the wizard, if the device in question is not present on your machine or if you do not intend to use an item, by un-ticking the tick boxes next to the items listed in the wizard.

Note: The security dongle must be in place and the security keys entered before attempting to launch VCube

Driver Signing

There is no **Driver Signing Options** dialog in Windows 7.

Windows throws up a warning dialog when unsigned drivers are installed. To avoid the necessity of clicking on **OK** several times you may wish to check the **Always Trust Drivers from Merging Technologies** box.

Running the Installer

Note: If you have a **SafeNet** dongle please remove this before installing VCube and replace it after installation is complete.

Note: The AJA video card drivers are installed automatically when the machine is re-booted after a fresh VCube software install. You should ALWAYS use the Merging Technologies versions of the AJA drivers and not those included with an AJA retail board or downloadable from the AJA website to avoid conflicting driver versions with VCube.

Note: The BlackMagic video card drivers have to be downloaded from the BlackMagic website and installed separately.

<https://www.blackmagicdesign.com/support>

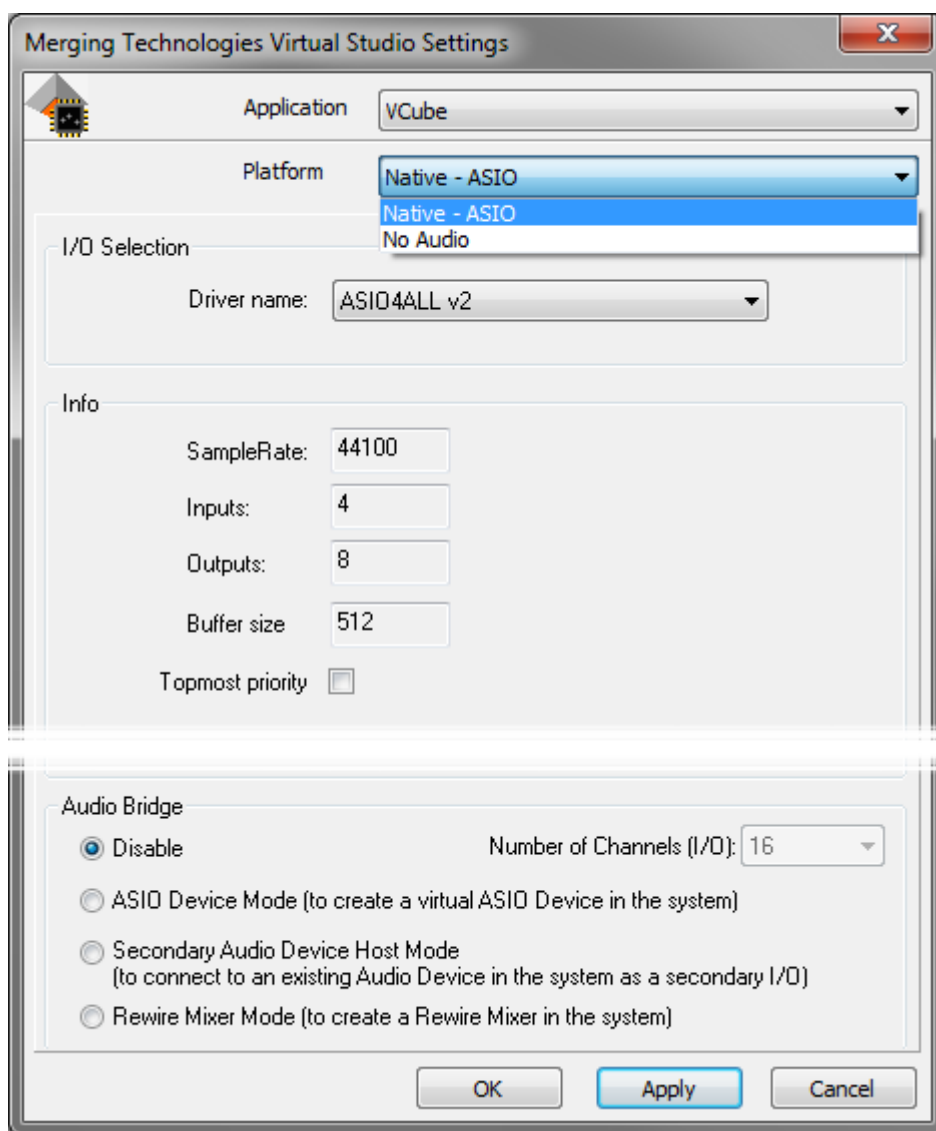
1. Insert the VCube installation media into a suitable drive/USB socket.
2. If the combined installer does not auto-run double-click on the USB stick icon
3. De-select any items you do not require.
4. Override any warnings about uncertified drivers during the installation process..
5. Reboot the PC manually if necessary (see below

Note: If the installation appears to freeze for a long period please check that the **Driver Signing** warning dialogue is not hidden behind another Window. Installation will not continue until you click **OK** in this dialog.

WARNING: Certain computers do not shut down properly despite the reboot command issued by the installer but only perform a log off. In this case, please activate a full shut down manually.

6. Plug in the security USB dongle.
7. Enter the optional keys in MT Security Settings, if necessary.
8. Restart the PC.
9. Launch the VS3 Control Panel.

10. Launch the **VS3 Control Panel**. The VS3 Control Panel is a separate application. It can be found in **Start > All Programs > Merging Technologies > VS3 Runtime**. It must be used to select and set up the Audio Engine before launching VCube for the first time.

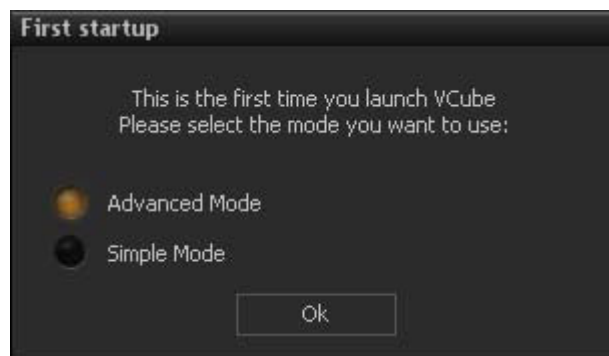


VS3 Control Panel

- Application** In a system with a Pyramix in addition to VCube choose VCube from the drop-down list.
- Platform** The drop-down list will contain options for all **ASIO** devices on the system, **Mass-Core RAVENNA** if installed and **No Audio**. Select the desired output **Audio Engine** from the list.
- I/O Selection** Select the appropriate **Driver** from the drop-down list.
- Info** Keep the default settings here.
- Audio Bridge** If you are using an **ASIO device** choose **ASIO Device Mode**.
- Click on **OK** to apply the settings and close the dialog. When the VS3 panel **Do you want to save routing?** dialog box appears, click on **OK**.

11. Launch VCube.

- At the first launch a dialog will be displayed:



- Click on **OK**
- The **Simple Mode** has been designed to avoid inexperienced users destroying a correctly configured setup. But at this point, full access to settings is needed.

8 VCube Software Registration

The **VCube** software and its various software options are protected by an authorization key mechanism which uses a unique registration key number generated by Merging Technologies. Based on purchased software components, this key is unique to your security dongle, your Company Name and your User name. Once you have registered your software you will be provided with this Key or Keys (depending on the chosen options).

If you did not receive this key, have lost it or would like to change the user and/or company name, please contact your Merging Sales Partner with your dongle serial #, your User Name, your Company Name and the list of purchased software components. Usually, a key can be issued within one business day, after the verification of your personal data has been completed.

Entering your Key(s)

After the VCube installation process you will be prompted to enter your **Authorization Key**. If you click **Yes** the **MT Security Settings** dialog will be launched automatically, allowing the Key or Keys to be entered immediately. If you choose not to enter your Key at this point you can do so later by choosing one of the following procedures:

1. Double-click the file **YourPersonalKeyXXXXX.mtk**. This is attached to the email containing your Key(s).
2. Open the **MT Security Settings Control Panel** (Windows Task Bar **Start > Control Panel > MT Security Settings**), click the **Import Key** button and browse for your Key file called
YourPersonalKeyXXXXX.mtk
3. Open the **MT Security Settings Control Panel** (as above), in the **Registration** section select the dongle number corresponding to the SafeNet Key, click the **Enter Key** button and type your **User Name, Company Name** and **Key** then click **OK**. Repeat this step for each Keys listed in the email.

Changing or re-entering a Key

Should you need to subsequently change or re-enter a **Key**, follow the appropriate option above.

Keys

At any time you can check the serial number of your Security dongle(s) and the software options enabled in your system in the **MTSecurity** application.

9 Troubleshooting

Please visit regularly:

www.merging.com

for the latest Troubleshooting Guide and FAQ sections.

10 Lost or Stolen Merging Technologies Security Keys

(Sentinel / HASP USB Dongles)

The Merging USB Key carries all the value of your Merging software and the software licence authorization to use it. Please ensure you do not lose the USB key as Merging Technologies cannot be held responsible if this is lost or stolen.

If your USB key is lost or stolen then please make a claim on your insurance in the usual way just as you would for any other item you own. Merging will be happy to confirm the details and value of the software licence and USB key to your insurance company. If your USB key is lost or stolen and a different user should attempt to register for this key, Merging will notify you and the authorities in your country that an attempt has been made to register this stolen item.

If your USB key should become defective or is broken, please ensure this key is returned to merging after requesting and RMA (Return Merchandise Authorization.) Only after the receipt of this key in the Merging Offices will it be determined if it may be exchanged under warranty free-of-charge, or if the damage is outside the warranty scope. in which case only a modest fee to replace it with a new key will be charged (and not the entire value of the software.)

11 Contacting Merging

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Campbell Road

Bramley

Hampshire

RG26 5EG

UK

Phone: +44 (0) 118 402 5090

Fax: +44 (0) 870 1231747

Email: sales@merginguk.com

USA:

Merging USA (Independent Audio)

43 Deerfield Road

Portland,

ME 04101-1805

United States of America

Phone: +1 (207) 773 2424

Fax: +1 (207) 773 2422

For all documentation inquiries or suggestions for improvement:

<http://www.merging.com>

Index

A

Aero graphics 11

C

Changing or re-entering a Key 18
Contacting Merging 21

D

Display Settings 11
Dongle serial number 18
Driver Signing 14

E

Entering Keys 18

F

First launch
 Single board system 18

I

Import Key 18
Indexing 11
Introduction 6

K

Keys 18

M

MT Security Settings 18

N

Native Install 15

O

Other Applications 11

P

PC Setup 11
Power Management 11

R

Recommended options 11

S

SafeNet dongle 15
small fonts 11
Software Installation 14
Software Registration 18
System Requirements 10

T

Thank you 6
Troubleshooting 19

Y

YourPersonalKey 18

