GUIDE

Who is this guide for

This guide is intended for the user who as physical access to the Kaleido series and as basic knowledge of this type of equipment.

What is this guide for

To give user of KaleidoX frame the knowledge how to upgrade the firmware using a USB connector on the device using a USB KEY!. This is good for ALL Kaleido-X frame type. Frame 4, Frame 7 or Frame 14.
This guide is also for system that have no issue, and are simply undergoing normal update procedure to keep up to date with latest GrassValley technology.

What will I need to perform the UPDATE

- Physical access to the Kaleido Frame
- Access to a microsotf Windows Computer
- 1 Usb Stick (1 gig minimum)
- The latest firmware from Grassvalley support.
- Custom KaleidoX software to prepare the usb stick
- SSH program like putty

What is this Custom KaleidoX software doing?

The program will upgrade the cards firmware for the Kaleido-X, XFR4,7,14.
The procedure implies the use of 2 files.
- Firmware file
- Program to prepare a usb key to push the firmware into the Kx Upgrading firmware will automatically propagate it the other cards.

How much down time should I expect?

Be prepared for a 5 minutes shutdown window when you decide to use the reboot button that will show on the kaleido screen at the end of the firmware update.
20-35 minutes is needed between every card Updating
The reboot button will show up after the firmware is completely integrated in the memory.
All important information is also displayed in the main screen of the Kaleido in a kind of dashboard on the lower left corner.
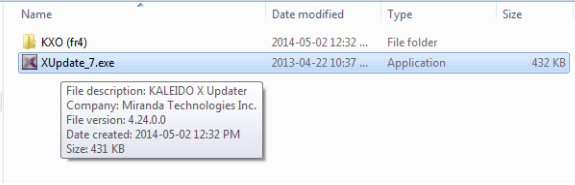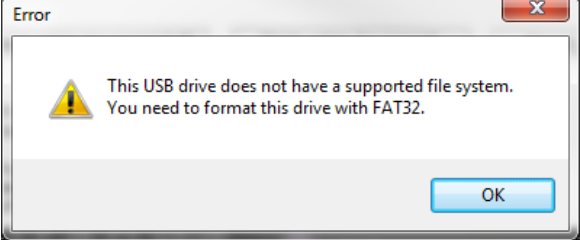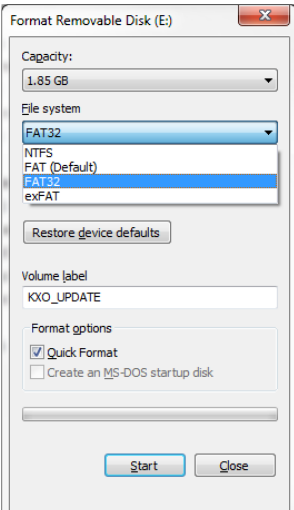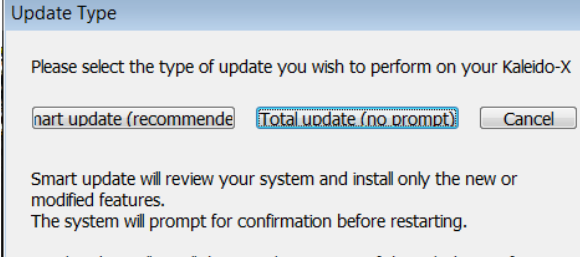
Why do I need to upgrade?

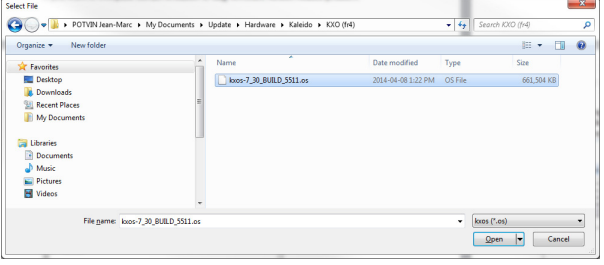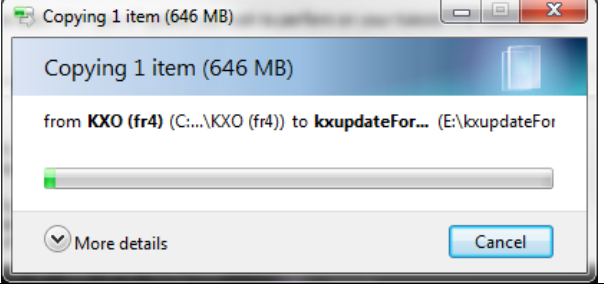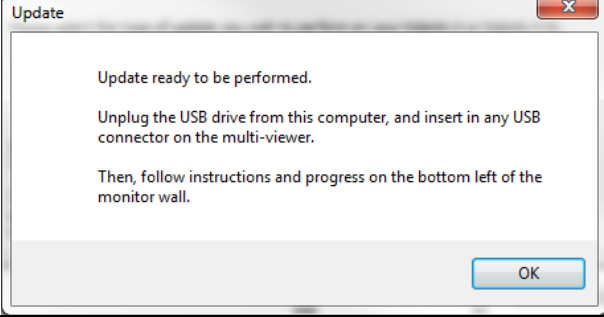If you have to replace a broken board with a newer one.
If you want to follow up with newest technologies brake through.
If you want to overpass certain limitation or bug firmware version related problem.
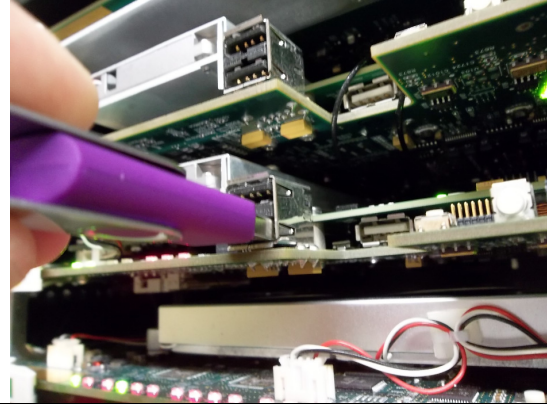
Step by step procedure?

Table : step by step procedure to create the firmware usb key for KaleidoX series	
1. Copy the update files from the Miranda FTP link that Support will sent you On to the PC's hard drive, create a folder Miranda on your desktop.	
2. Insert a USB flash drive in to one of the PC's USB ports.	
3. Locate and double-click on the Kaleido-X Upgrade Manager application (It *has a filename of the form "XUpdate7.exe'):* 4. When the Welcome screen appears, click **on the type of kaleido that you would like to upgrade (Kaleido-X in your case)**	
5. When prompted to select a type of update, click **Smart Update or Force Update** Note: If you click **Forced Update (no confirm)**, then the update procedure, once initiated, cannot be aborted.	

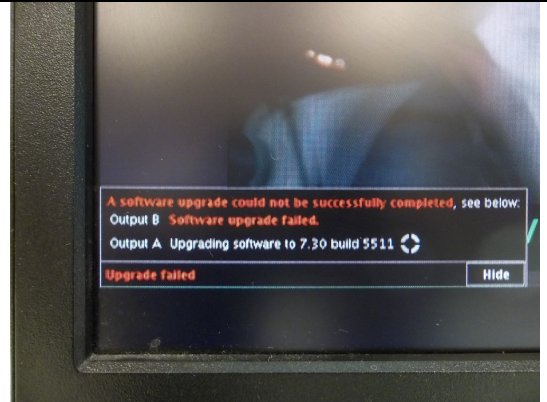|	
6. When prompted to select an update file, Browse to the Miranda folder that you have created on the desktop in step1 locate and double-click on the Kaleido-X operating system file (of the form "kxos-7_30_BUILD_5511.os"):	
7. The ".os" file will be copied to the USB drive. This may take a few minutes:	
8. When the copying process is finished, a confirmation message appears. Click **OK**:	
9. Click **Exit** on the Welcome screen.	

10. Connect the USB key to one of the available USB Connector on one of your KXO card in your multiviewer and Follow the instructions and Progress at the bottom left corner of your monitor wall.	
11. Go back to the monitor wall or the Kaleido screen. Form that scree you can follow on the update status for all the card connected to the frame. **Please note that a power failure during this procedure or stopping the procedure in the middle of an upgrade may cause permanent issue on the owl system like data loss or unable to bring the system back up.**	

Worst case scenario?

Very rarely but these things happens…

YOU DON'T HAVE A DATABASE BACKUP!

THE FIRWARE UPDATE STOP IN THE MIDDLE BECAUSE OF POWER FAILURE OR BECAUSE OFF MANIPULATION ERROR (USB DEFECT, OR UNPLUGING BEFORE END OF PROCESS

Worst case scenario can have your system offline for long hours… 24-48 maybe more if very complicated layouts have been lost.

What to do in a worst case scenario?

Call Grass Valey Support Line, they will send you an image file to reimage the memory Card on the board. We can also produce a new image file directly on a memory card and have it send to you.

This image is a image type file using "img" format from GNU Project compatible with : RaWrite & RaWrite2, RawWrite for Windows, and WinRawrite. The img format is used in many type of virtualization and reimaging software like :

- Microsoft Virtual Machine
- Microsoft Virtual Server
- QEMU
- VirtualBox
- WinImage
- Nero Burning ROM.
- Usb Toolls

     And others

PS :

Nothing can be done for database loss
You will be left having to use the default one.
DATABASE contains layout and all the hard work information put in by the Kaleido user to personalise your input to output environment.

If you want information about the latest release you should consult the document that Grassvalley support will have attached with the upgrade or image file that they will provide.

Enjoy your new kaleido features!