



# Firmware Upgrade Instructions for Taktis Vision Repeater Panels

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## Important!

Panel firmware upgrades must only be carried out by competent fire engineers who have been trained on the Taktis system.

Before proceeding with any firmware updates use Loop Explorer LE2 to get the most recent download of the system configuration file.

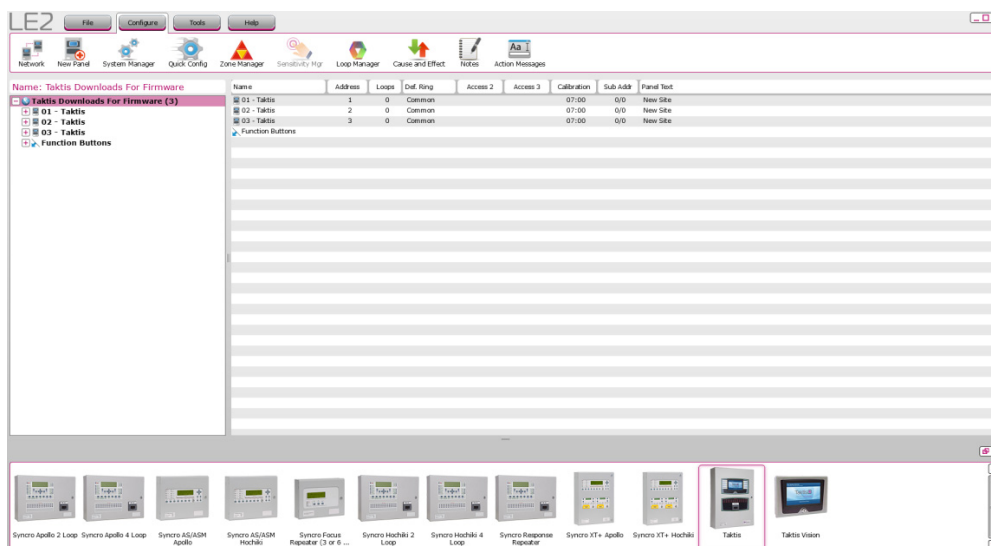
As part of the Update process all Inputs will default to Fire Inputs so be aware if Active i.e., Tech Alarms, Disablesments are present then this will default to a Fire condition.

Note: These instructions are for upgrading firmware in Vision repeaters only. Taktis panel firmware upgrades require a different manual

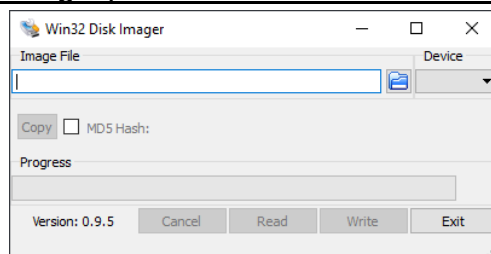
Pre-Firmware upload list of requirements:

**STEP 1 - Ensure you have a laptop installed with the following:**

**Loop explorer LE2 (Downloadable through <https://virtualresource.global>).**



**WIN32 Disk Imager (Free software downloadable from internet)**

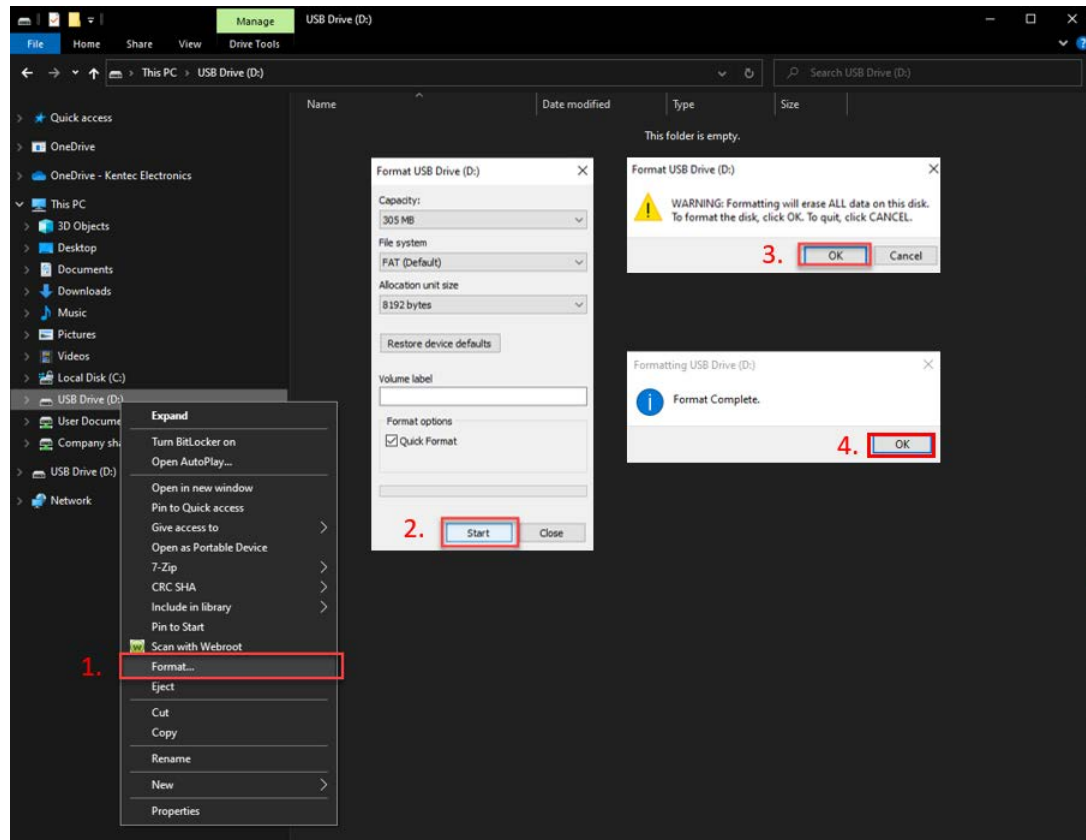




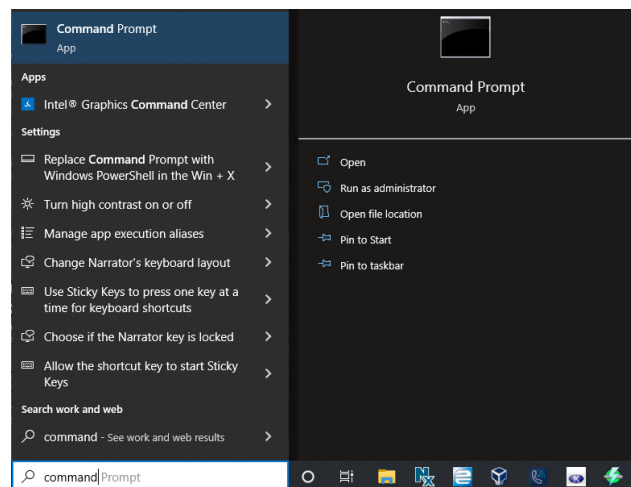
# Firmware Upgrade Instructions for Taktis Vision Repeater Panels

## STEP 2 – Clean the USB Flash Drive:

Follow the shown below processes from 1 to 4 to Format the USB Stick



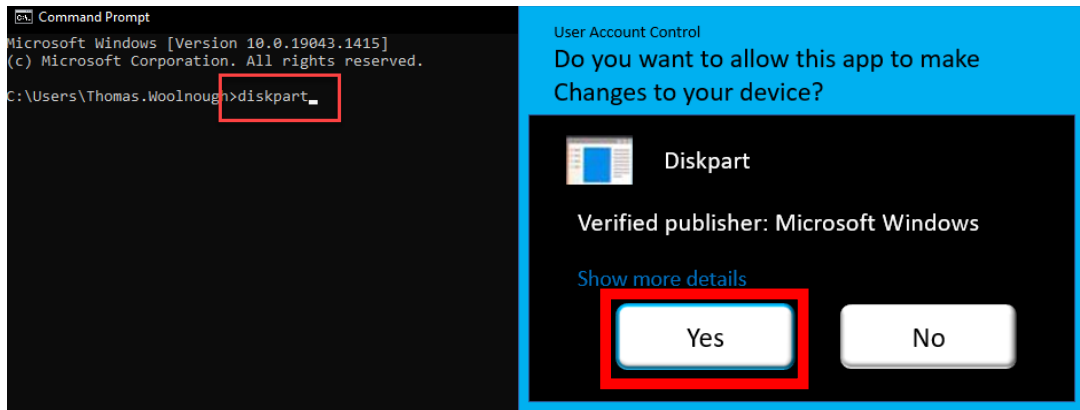
Then go to Command prompt:



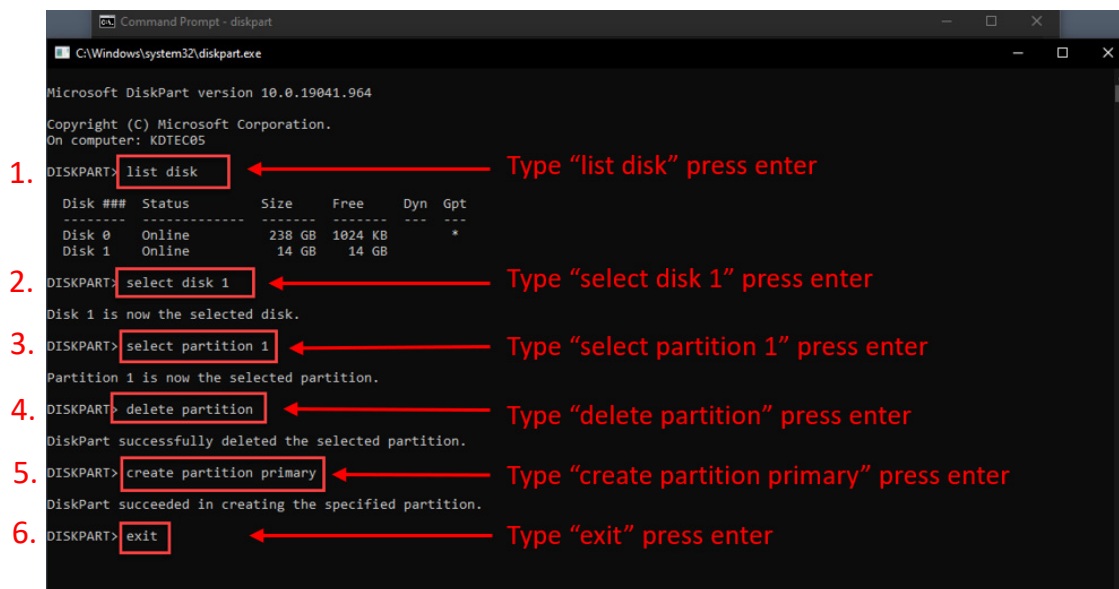


## Firmware Upgrade Instructions for Taktis Vision Repeater Panels

When in the Command Prompt, type the phrase “diskpart” then press enter this is case sensitive. A window will appear, click “yes”. As shown below.



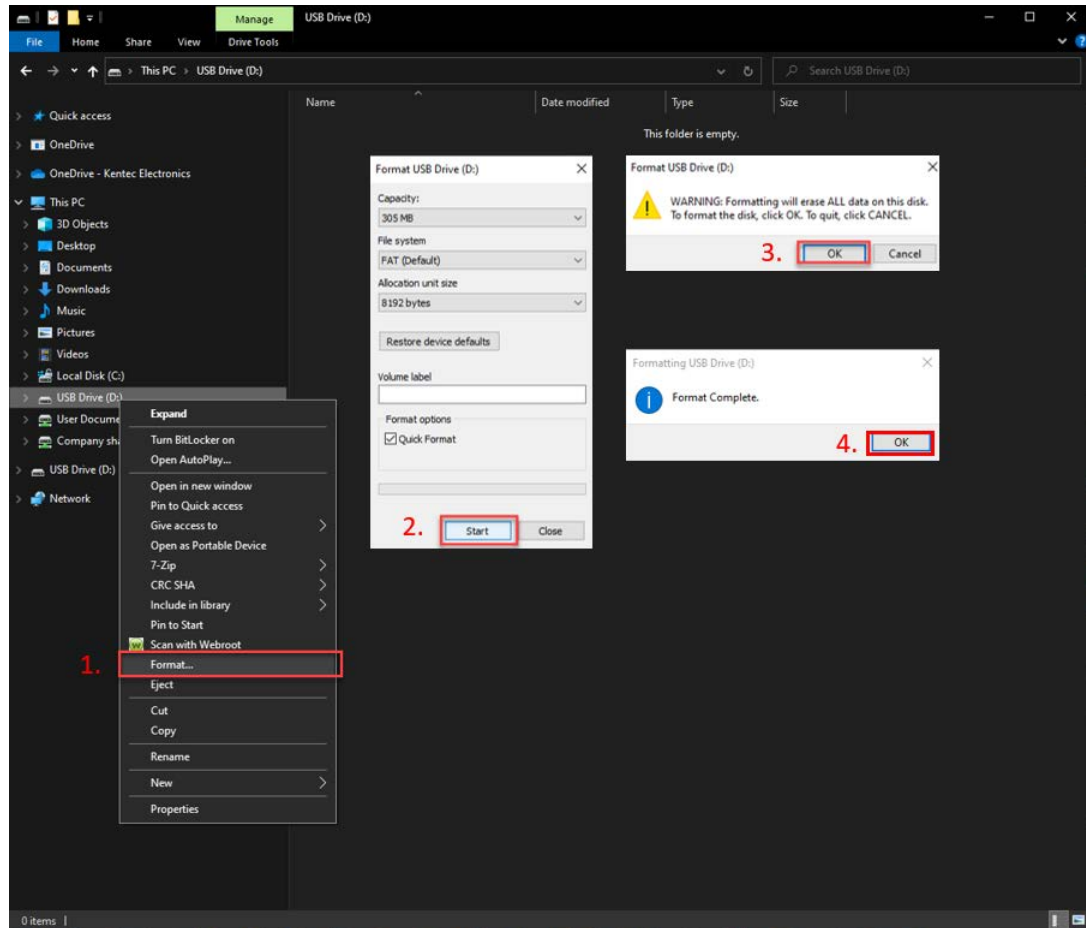
Follow the steps 1 to 6 in the new window.





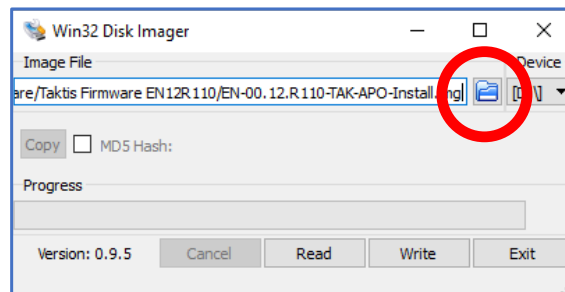
# Firmware Upgrade Instructions for Taktis Vision Repeater Panels

Follow the shown below processes from 1 to 4 to Format the USB Stick



Run the WIN32 Disk Imager program, the following window will appear:

Click on the blue folder icon (circled below) this will open the “Select a disk image” window.





## Firmware Upgrade Instructions for Taktis Vision Repeater Panels

**\*CAUTION\***

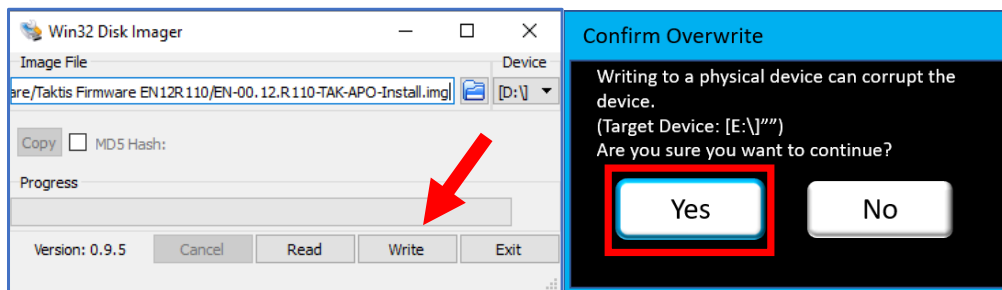
**DO NOT SELECT TAK-APO & TAK-HOC THIS IS FOR TAKTIS  
PANELS AND WILL CORRUPT YOUR VISION REPEATER**

APO – For Apollo Protocol, HOC – For Hochiki and VIS – For Vision Repeater.

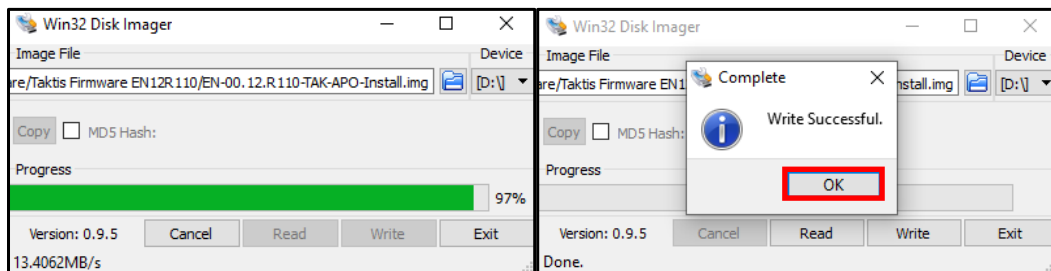
Name	Status	Date modified	Type	Size
EN-00.12.R110-TAK-APO-Install.img	✓	24/09/2021 07:44	Disc Image File	321,300 KB
EN-00.12.R110-TAK-HOC-Install.img	✓	24/09/2021 07:41	Disc Image File	321,300 KB
EN-00.12.R110-TAK-VIS-Install.img	✓	24/09/2021 07:42	Disc Image File	321,300 KB

Locate the firmware upgrade file required for the Vision control panel, click on the file to highlight it, and click the “open” button. This window will close and return you back to the main “WIN32 Disk Imager” window.

Click on the “Write” button (highlighted below) and this will then prompt to Overwrite the Target Device, click “Yes”.



A progress bar will appear and upon completion a “Write Successful” Banner will appear, Click “Ok”

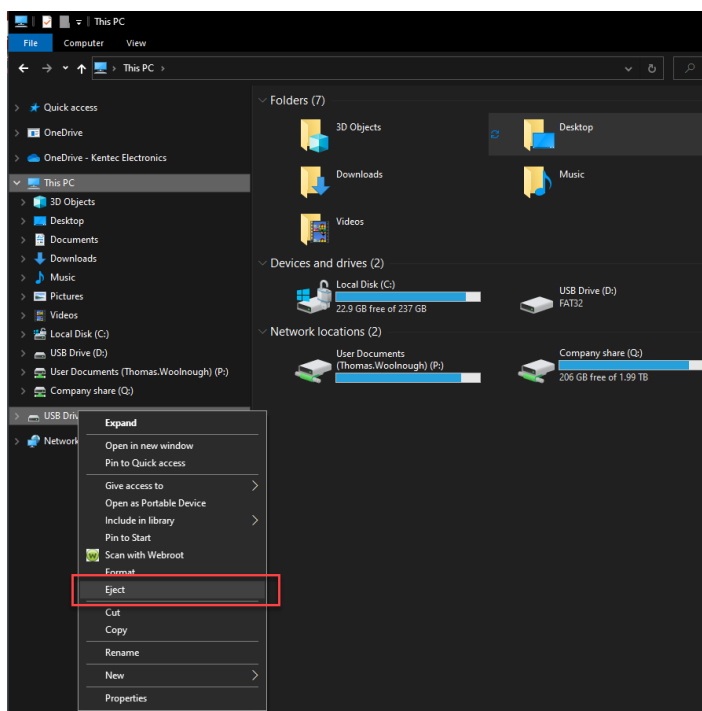


When the file has been written to the Flash drive **DO NOT OPEN**

Safely Eject the Formatted Disk (As shown below)

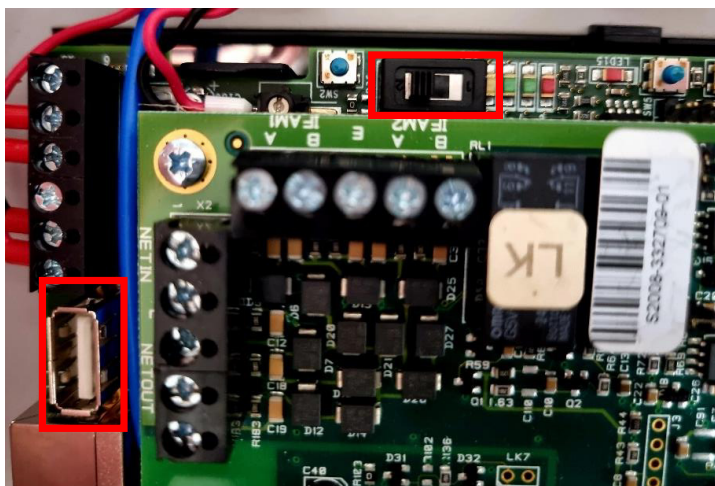


# Firmware Upgrade Instructions for Taktis Vision Repeater Panels



## Uploading the Firmware into the Vision Repeater

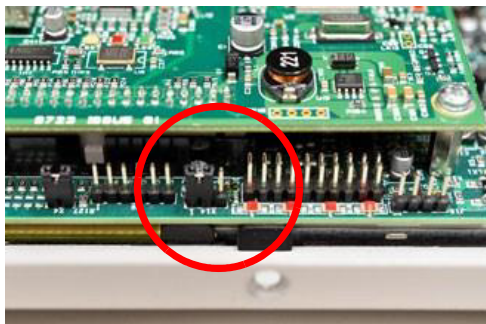
When the door is folded down e.g. screen facing the floor, put the Write Enable On (To the right), Insert the Preloaded USB stick with the Firmware (Which has been installed with Win32 Disk Imager) in the Port shown below:



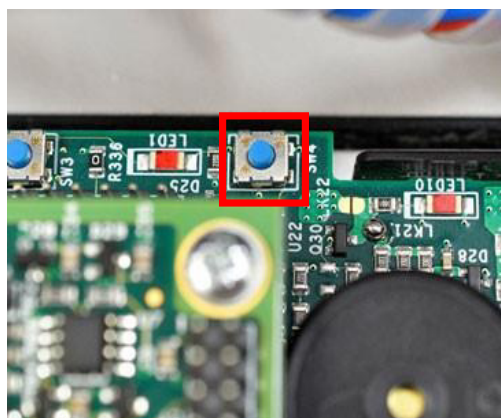
Place a Jumper Link on X14 the middle and Left (this is located on the PCB towards the top of the screen)



## Firmware Upgrade Instructions for Taktis Vision Repeater Panels



Reboot the repeater by pressing and releasing the blue “RESET” button (SW4) at the back of the display card



The Vision Screen will go black and after a few seconds display the header “Installing System”. Upon completion an image similar to the one shown below will be displayed, it will then instruct to “Power off, remove the installation jumper from the board, and reboot”, this will be the last line displayed in the process.





## Firmware Upgrade Instructions for Taktis Vision Repeater Panels

```
Installing System
Please wait while system is initialised ...
Erasing NAND Flash, creating file system ...
Mounting NAND Flash file system ...
Copying bin to file system ...
Copying dev to file system ...
Copying etc to file system ...
Copying kentec to file system ...
Copying lib to file system ...
Copying linuxrc to file system ...
Copying media to file system ...
Copying opt to file system ...
Copying root to file system ...
Copying sbin to file system ...
Copying tmp to file system ...
Copying usr to file system ...
Copying var to file system ...
Creating link mnt in file system ...
Creating folder proc in file system ...
Creating folder sys in file system ...
Erasing configuration ...
Configuration erased .
Power off, remove the installation jumper from the board, and reboot .
```

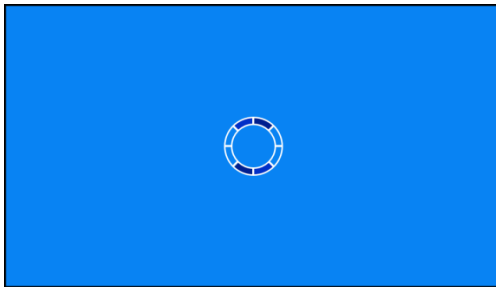
Once you have Removed the battery Power, and safely isolated the incoming Mains supply.

Remove the Jumper link on X14 and the USB firmware stick, wait 10 seconds.

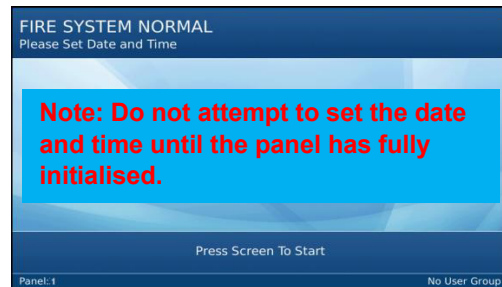
**Ensure the "Write Enable Switch" is left "On" (to the right) for the whole process**

Turn the mains back on and reconnect the batteries and let it carry out the necessary Vision updates.

1.



2.



3.



**Networked panels and repeaters will default their node address to "1" following an upgrade, therefore the nodes will need to be addressed.**





## Firmware Upgrade Instructions for Taktis Vision Repeater Panels

Panel Settings

Panel Name: AUTOLEARN

Panel Text: AUTO CONFIGURED P...

Address: ^ v 1

Submit

Once you have changed the Panel number an Autolearn process will need to be carried out, this ensures the new Panel number is learnt onto the Panel.

**In line with BS5839 part 1 the system must be tested following an upgrade to ensure the system is functioning correctly.**

### Firmware Upgrade Diagnostics

Fault Description	Diagnostic Action
Blank screen after Firmware Flash	This can occur if the wrong Jumper is removed after the Flash procedure. Reinstall Jumper and remove the correct Jumper then press the Processor Reset on the Panel
Display appears Normal but unable to access Menus or buttons	Wait a minute in case it is in the process of carrying out loading procedure, if after a couple minutes and this persists, then press the Processor Reset on the Panel
If Card update has failed	Turn the write Enable on and press the Processor reset, once it has finished all updates and learning of the loops, then turn the Write Enable off