



USER MANUAL





Please make sure you remember your PIN (password), without it there is no way to access the data on the drive.

If you are having difficulty using your diskAshur DT² drive please contact our technical department by email - support@istorage-uk.com or by phone on +44 (0) 20 8991 6260.

iStorage diskAshur DT^{2} Manual – v 1.8







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Introduction

The diskAshur DT² is an easy to use, ultra-secure, hardware encrypted desktop hard drive with capacities of up to 8TB. Simply switch the power on and connect the USB 3.1 cable to any computer and enter a 7-15 digit PIN, if the correct PIN is entered, all data stored on the drive will be decrypted and accessible. To lock the drive and encrypt all data, simply eject the diskAshur DT² from the host computer and the entire contents of the drive will be encrypted (full disk encryption) using military grade AES 256-bit hardware encryption (XTS mode). If the drive is lost or stolen and an incorrect PIN is entered 15 consecutive times, the drive will reset, the encryption key will be deleted and all data previously stored on the drive will be lost forever.

One of the unique and underlying security features of the GDPR compliant diskAshur DT² is the dedicated hardware based secure microprocessor (Common Criteria EAL4+ ready), which employs built-in physical protection mechanisms designed to defend against external tamper, bypass attacks and fault injections. Unlike other solutions, the diskAshur DT² reacts to an automated attack by entering the deadlock frozen state, which renders all such attacks as useless. In plain and simple terms, without the PIN there's no way in!

Box Contents

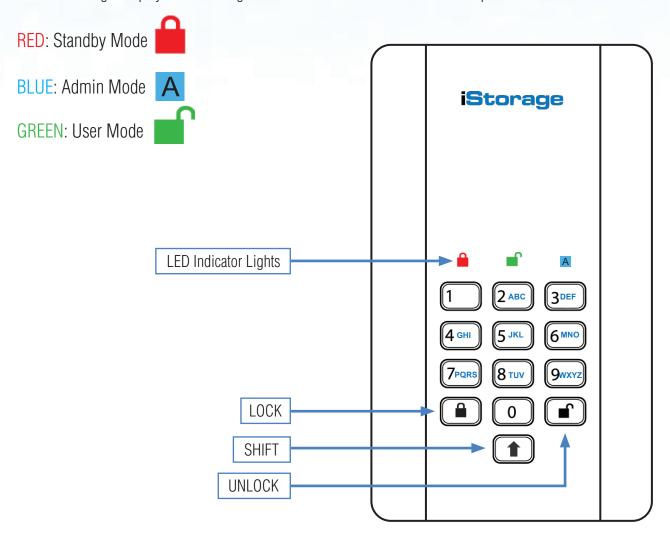
- diskAshur DT² Drive
- 2. USB Cable
- 3. Universal Mains Adapter
- Quick Start Guide





1. diskAshur DT² Layout

The indicator light displays the following colours to indicate the various modes of operation:



The "**UNLOCK**" button is used to access the diskAshur DT² and it can also be used as an OK acknowledgement in the following operations:

- Entering a PIN
- Confirming a new PIN
- Accessing various command settings

The "**SHIFT**" button can be used for additional combinations. **SHIFT** + **1** is a separate value than just **1**. To create a PIN using additional combinations, press and hold down the SHIFT button whilst entering your 7-15 digit PIN. e.g. SHIFT + 26756498.

To lock diskAshur DT² and return it to Standby State (♠) press the "**Lock**" button.





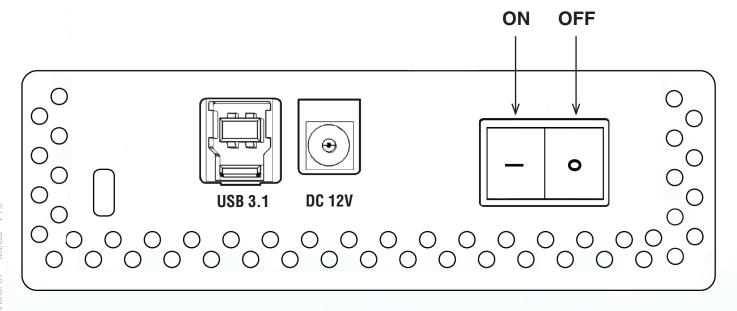
2. Connecting your diskAshur DT²

Be sure to read the following information before you begin to use the diskAshur DT².



Attention: Use only the cables provided with your diskAshur DT². You may damage the drive if you use a cable not included with the diskAshur DT².

- 1. Ensure that the power switch on the back of the diskAshur DT² is in the **OFF** position.
- 2. Connect the diskAshur DT² to a power outlet using the included AC Adapter.
- 3. Attach the USB cable to the diskAshur DT² drive and to an available USB port on your computer.
- 4. Turn the power switch on the back of the diskAshur DT² to the **ON** position.
- 5. The LED indicator light should turn **RED**, indicating that the drive is now ready to use.









3. diskAshur DT² LED States

When the diskAshur DT² is plugged in, there are three possible behaviours for the LED indicators as shown in the table below.

RED	GREEN	BLUE	diskAshur DT ² State
Solid	Off	Off	Factory Reset ¹
Solid	Solid	Solid	Brute Force ²
Solid	Off	Off	Standby ³

- 1. In Factory Reset State, the drive is waiting for the operation to set up an Admin PIN.
- 2. In Brute Force state, the drive is waiting for an operation to get more PIN entry attempts.
- 3. In Standby state, the drive is waiting for an operation to unlock the drive, or enter Admin mode, or reset the drive.

4. How to use the diskAshur DT² for the first time

The diskAshur DT² is shipped with a default Admin PIN of **11223344** and although it can be used straight out of the box with the default Admin PIN, for security reasons we **highly recommend a new Admin PIN be created immediately** by following the instructions under section 8 'Changing the Admin PIN'.

Please follow the 3 simple steps in the table below to unlock the diskAshur DT² for the first time with the default Admin PIN.

Instructions - first time use	LED	LED State
1. Connect the diskAshur DT ² to a USB port		RED LED will be solid awaiting PIN entry
2. Enter Admin PIN (default - 11223344)		RED LED remains solid
3. Within 10 seconds press the " UNLOCK " button once to unlock diskAshur DT ²	3 → 3	GREEN and BLUE LEDs will alternately blink several times and then to a solid BLUE LED changing to a blinking GREEN and finally solid GREEN LED



Note: Once the diskAshur DT² has been successfully unlocked, the GREEN LED will remain on and in a solid state. It can be locked down immediately by pressing the "**LOCK**" button once or by clicking the 'Safely Remove Hardware/Eject' icon within your operating system. To ensure no data is corrupted, we recommend using 'Safely Remove Hardware/Eject'.







5. Unlocking the diskAshur DT²

The diskAshur DT² can be unlocked with either an Admin or User PIN whilst in standby state (solid RED LED).

- 1. To unlock as the Administrator, enter the **Admin** PIN and press the "**UNLOCK**" button.
- 2. To unlock as a **User**, first press the "**UNLOCK**" button (all LEDs, blink on and off) and then enter the **User** PIN and press the "**UNLOCK**" button again.
- 3. If correct User PIN is entered, both GREEN and BLUE LEDs will blink alternately and then return to a solid GREEN LED.
- 4. If correct Admin PIN is entered, both GREEN and BLUE LEDs will blink alternately, then to a solid BLUE for 1 second and then to the unlocked state, a solid GREEN LED.
- 5. If correct PIN is entered, the drive displays as "iStorage diskAshur DT² USB Device" under "Computer Management/Device Manager".

In an unlocked state (GREEN LED), there are two possible behaviours for the LED indicators, shown in the table below.

RED	GREEN	BLUE	diskAshur DT ²
Off	Solid	Off	No data transfer
Off	Blink	Off	Data transfer in progress

6. Locking the diskAshur DT²

To lock the drive, press the "**LOCK**" button once or by clicking the 'Safely Remove Hardware/Eject' icon within your operating system. If data is still being written to the drive, please wait until all data has been written to the drive before pressing the 'LOCK' button or safely ejecting from the Operating System. When the unattended Auto-Lock timeout is activated, the drive will automatically lock after a predetermined amount of time.



Note: The diskAshur DT² cannot be recognized by the operating system in standby state.

7. Entering Admin Mode

To enter the Admin Mode, do the following:

1. In standby state (solid RED LED), press and hold down "UNLOCK + 1" buttons	3	Solid RED LED will change to blinking GREEN and BLUE LEDs
2. Enter the Admin PIN (default - 11223344) and press "UNLOCK" button	3 →	GREEN and BLUE LEDs blink rapidly together for a few seconds then to a solid GREEN and finally a solid BLUE LED indicating the diskAshur DT ² is in "Admin Mode"

To exist Admin mode, press the "**LOCK**" button.





8. Changing the Admin PIN

PIN requirements:

- Must be between 7-15 digits in length
- Must not contain only repetitive numbers, e.g. (3-3-3-3-3-3)
- Must not contain only consecutive numbers, e.g. (1-2-3-4-5-6-7), (7-8-9-0-1-2-3-4), (7-6-5-4-3-2-1)

Password Tip: You can create a memorable word, name, phrase or any other Alphanumerical PIN combination by simply pressing the key with the corresponding letters on it.

Examples of these types of Alphanumerical PINs are:

- For "password" you would press the following keys:
 7 (pqrs) 2 (abc) 7 (pqrs) 7 (pqrs) 9 (wxyz) 6 (mno) 7 (pqrs) 3 (def)
- For "istorage" you would press:
 4 (ghi) 7 (pqrs) 8 (tuv) 6 (mno) 7 (pqrs) 2 (abc) 4 (ghi) 3 (def)

Using this method, long and easy to remember PINs can be created.



Note: The SHIFT key can be used for additional combinations. SHIFT + 1 is a separate value than just 1. To create a PIN using additional combinations, press and hold down the SHIFT button whilst entering your 7-15 digit PIN. e.g. SHIFT + 26756498.

To change the Admin PIN, first enter the "**Admin Mode**" as described in section 7. Once the drive is in **Admin Mode** (solid BLUE LED) proceed with the following steps.

1. In Admin mode, press and hold down "UNLOCK + 2" buttons	→	Solid BLUE LED will change to blinking GREEN and solid BLUE LEDs
2. Enter NEW Admin PIN and press " UNLOCK " button	***	Blinking GREEN and solid BLUE LEDs will switch to a single GREEN LED blink and then back to blinking GREEN and solid BLUE LEDs
3. Re-enter the NEW Admin PIN and press " UNLOCK " button	3	Blinking GREEN and solid BLUE LEDs change to a rapidly blinking BLUE LED and finally to a solid BLUE LED indicating the Admin PIN has been successfully changed





9. Adding a new User PIN in Admin Mode

To add a **New User**, first enter the "**Admin Mode**" as described in section 7. Once the drive is in **Admin Mode** (solid BLUE LED) proceed with the following steps.

1. In Admin mode, press and hold down "UNLOCK + 3" buttons	3 ->	Solid BLUE LED will change to blinking GREEN and solid BLUE LEDs
2. Enter New User PIN and press "UNLOCK" button	**	Blinking GREEN and solid BLUE LEDs will switch to a single GREEN LED blink and then back to blinking GREEN and solid BLUE LEDs
3. Re-enter the New User PIN and press " UNLOCK " button	3 →	GREEN LED rapidly blinks for a few seconds then changes to a solid BLUE LED indicating the User PIN has been successfully created

10. Changing the User PIN in Admin Mode

To change an existing **User PIN**, first enter the "**Admin Mode**" as described in section 7. Once the drive is in **Admin Mode** (solid **BLUE** LED) proceed with the following steps.

1. In Admin mode, press and hold down "UNLOCK + 3" buttons	3 ->	Solid BLUE LED will change to blinking GREEN and solid BLUE LEDs
2. Enter New User PIN and press "UNLOCK" button	3 ->	Blinking GREEN and solid BLUE LEDs will switch to a single GREEN LED blink and then back to blinking GREEN and solid BLUE LEDs
3. Re-enter the New User PIN and press " UNLOCK " button	3 →	GREEN LED rapidly blinks for a few seconds then changes to a solid BLUE LED indicating the User PIN has been successfully changed

11. Deleting the User PIN in Admin Mode

To delete a **User PIN**, first enter the "**Admin Mode**" as described in section 7. Once the drive is in **Admin Mode** (solid **BLUE** LED) proceed with the following steps.

1. In Admin mode, press and hold down "SHIFT + 3" buttons and release	→	Solid BLUE LED will change to blinking RED LED
2. Press and hold down "SHIFT + 3" buttons again.		Blinking RED LED will change to solid RED LED and then to a solid BLUE LED indicating the User PIN was successfully deleted





12. Set Read-Only in Admin Mode



Important: If data has just been copied to the diskAshur DT², make sure to properly disconnect the drive first by clicking 'Safely Remove Hardware/Eject' the diskAshur DT² from the Operating System before reconnecting and setting the diskAshur DT² as 'Read-Only/Write-Protect'.

When Admin writes content to the diskAshur DT² and restricts access to read-only, the User cannot change this setting in User mode. To set the diskAshur DT² to Read-Only, first enter the "**Admin Mode**" as described in section 7. Once the drive is in **Admin Mode** (solid BLUE LED) proceed with the following steps.

1. In Admin mode, press and hold down " 7 + 6 " buttons. (7= R ead + 6= 0 nly)	***	Solid BLUE LED will change to blinking GREEN and BLUE LEDs
2. Release 7+6 buttons and press " UNLOCK "	x →	GREEN and BLUE LEDs will change to a solid GREEN LED and then to a solid BLUE LED indicating the drive is configured as Read-Only

13. Enable Read/Write in Admin Mode

To set the diskAshur DT² to Read/Write, first enter the "**Admin Mode**" as described in section 7. Once the drive is in **Admin Mode** (solid BLUE LED) proceed with the following steps.

1. In Admin mode, press and hold down " 7 + 9 " buttons. (7= R ead + 9= W rite)	3 →	Solid BLUE LED will change to blinking GREEN and BLUE LEDs
2. Release 7+9 buttons and press "UNLOCK"	→	GREEN and BLUE LEDs change to a solid GREEN LED then to a solid BLUE LED indicating the drive is configured as Read/Write

14. How to create a Self-Destruct PIN

The self-destruct feature allows you to set a PIN which can be used to perform a crypto-erase on the entire drive. When used, the self-destruct PIN will **delete ALL data**, **Admin/User PINs** and then unlock the drive. Activating this feature will cause the Self-Destruct PIN to become the new User PIN and the diskAshur DT² will need to be partitioned and formatted before any new data can be added to the drive.

To set the Self-Destruct PIN, first enter the "**Admin Mode**" as described in section 7. Once the drive is in **Admin Mode** (solid BLUE LED) proceed with the following steps.

1. In Admin mode, press and hold down "UNLOCK + 6" buttons	3 →	Solid BLUE LED will change to blinking GREEN and solid BLUE LEDs
2. Create a 7-15 digit Self-Destruct PIN and press the "UNLOCK" button	» ·	Blinking GREEN and solid BLUE LEDs will switch to a single GREEN LED blink and then back to blinking GREEN and solid BLUE LEDs
3. Re-enter the PIN and press the "UNLOCK" button	3 ->	GREEN LED will rapidly blink for several seconds and then changes to a solid BLUE LED to indicate the Self-Destruct PIN has been successfully configured







How to Delete the Self-Destruct PIN

To delete the Self-Destruct PIN, first enter the "Admin Mode" as described in section 7. Once the drive is in Admin Mode (solid BLUE LED) proceed with the following steps.

1. In Admin mode, press and hold down "SHIFT + 6" buttons	■ 3→	Solid BLUE LED will change to a blinking RED LED
2. Press and hold down "SHIFT + 6" buttons again	m→	Blinking RED LED will become solid and then change to a solid BLUE LED indicating the Self-Destruct PIN was successfully deleted

16. How to Unlock with the Self-Destruct PIN

When used, the self-destruct PIN will delete the encryption key, ALL data, Admin/User PINs and then unlock the drive. Activating this feature will cause the **Self-Destruct PIN to become the new USER PIN** and the diskAshur DT² will need to be partitioned and formatted before any new data can be added to the drive.

To activate the Self-Destruct mechanism, the drive needs to be in the standby state (solid RED LED) and then proceed with the following steps.

1. In standby state, press the "UNLOCK" button	3→	RED LED switches to all LEDs, RED, GREEN & BLUE blinking on and off
2. Enter your Self-Destruct PIN and press the "UNLOCK" button	3 → 3	RED, GREEN and BLUE blinking LEDs will change to GREEN and BLUE LEDs alternating on and off for approximately 15 seconds and finally shifts to a solid GREEN LED



Important: When the Self-Destruct mechanism is activated, all data, the encryption key and the Admin/User PINs are deleted. The Self-Destruct PIN becomes the User PIN. No Admin PIN exists after the Self-Destruct mechanism is activated. The diskAshur DT² will need to be reset (see 'How to perform a complete reset' Section 25, on page 16) first in order to create an Admin PIN with full Admin privileges including the ability to create a User PIN.





17. How to Create an Admin PIN after a Brute Force attack or Reset

It will be necessary after a Brute Force attack or when the diskAshur DT² has been reset to create an Admin PIN before the drive can be used. If the drive has been brute forced or reset, the drive will be in a standby state (solid RED LED). to create an Admin PIN proceed with the following steps.

PIN requirements:

- Must be between 7-15 digits in length
- Must not contain only repetitive numbers, e.g. (3-3-3-3-3-3-3)
- Must not contain only consecutive numbers, e.g. (1-2-3-4-5-6-7), (7-8-9-0-1-2-3-4), (7-6-5-4-3-2-1)



Note: The **SHIFT** key can be used for additional combinations. **SHIFT** + 1 is a separate value than just 1. To create a PIN using additional combinations, press and hold down the **SHIFT** button whilst entering your 7-15 digit PIN. e.g. **SHIFT** + 26756498.

1. In Standby state, press and hold down "SHIFT + 1" buttons	3→	Solid RED LED will change to blinking GREEN and solid BLUE LEDs
2. Enter NEW Admin PIN and press " UNLOCK " button	***	Blinking GREEN and solid BLUE LEDs will switch to a single GREEN LED blink and then back to blinking GREEN and solid BLUE LEDs
3. Re-enter the NEW Admin PIN and press " UNLOCK " button	3 →	Blinking GREEN LED and solid BLUE LED change to BLUE LED rapidly blinking for a few seconds and then to a solid BLUE LED indicating the Admin PIN was successfully configured.

18. Setting the Unattended Auto-Lock Clock

To protect against unauthorised access if the drive is unlocked and unattended, diskAshur DT² can be set to automatically lock after a pre-set amount of time. In its default state, the diskAshur DT² Unattended Auto Lock feature is turned off. The Unattended Auto Lock can be set to activate between 5 - 99 minutes.

To set the Unattended Auto Lock, first enter the "**Admin Mode**" as described in section 7. Once the drive is in **Admin Mode** (solid BLUE LED) proceed with the following steps.

1. In Admin mode, press and hold down "UNLOCK + 5" buttons	***	Solid BLUE LED will change to blinking GREEN and BLUE LEDs
2. Enter the amount of time that you would like to set the 5 minutes and the maximum being 99 minutes (5-99 minutes)	Auto-Lock timeou nutes). For examp	at feature for, the minimum time that can be set is le enter:
05 for 5 minutes 20 for 20 minutes 99 for 99 minutes		
3. Press the "SHIFT" button	**	Blinking GREEN and BLUE LEDs will change to a solid GREEN for a second and then finally to a solid BLUE LED indicating the Auto-Lock time out is successfully configured





19. Turn off the Unattended Auto-Lock Clock

To turn off the Unattended Auto Lock, first enter the "**Admin Mode**" as described in section 7. Once the drive is in **Admin Mode** (solid BLUE LED) proceed with the following steps.

1. In Admin mode, press and hold down "UNLOCK + 5" buttons	→	Solid BLUE LED will change to blinking GREEN and BLUE LEDs
2. Enter " 00 " and press the " SHIFT " button	■ →	Blinking GREEN and BLUE LEDs will change to a solid GREEN for a second and then finally to a solid BLUE LED indicating the Auto-Lock time out has been successfully switched off

20. How to Unlock diskAshur DT² with User PIN

In the standby state (solid RED LED) Press the "UNLOCK" button	***	RED LED switches to all LEDs, RED, GREEN & BLUE blinking on and off
2. Enter User PIN and press the "UNLOCK" button	→	RED, GREEN and BLUE blinking LEDs will change to alternating GREEN and BLUE LEDs then to a rapidly blinking GREEN LED and finally shifts to a solid GREEN LED indicating drive successfully unlocked in User mode

21. Changing the User PIN in User Mode

To change the **User PIN**, first unlock the diskAshur DT² with a User PIN as described above in section 20. Once the drive is in **User Mode** (solid GREEN LED) proceed with the following steps.

1. In User mode press and hold down "UNLOCK + 4"	→	Solid GREEN LED will change to a blinking GREEN LED and a solid BLUE LED
2. Enter New User PIN and press the "UNLOCK" button	***	Blinking GREEN and solid BLUE LEDs will switch to a single GREEN LED blink and then back to blinking GREEN and solid BLUE LEDs
3. Re-enter New User PIN and press the " UNLOCK " button	**	Blinking GREEN and solid BLUE LEDs will switch to a rapidly blinking GREEN LED and then to a solid GREEN LED indicating successful User PIN change





22. Set Read-Only in User Mode



Important: If data has just been copied to the diskAshur DT², make sure to properly disconnect the drive first by clicking 'Safely Remove Hardware/Eject' the diskAshur DT² from the Operating System before reconnecting and setting the diskAshur DT² as 'Read-Only/Write-Protect'.

To set the diskAshur DT² to Read-Only, first enter the "**User Mode**" as described in section 20. Once the drive is in **User Mode** (solid GREEN LED) proceed with the following steps.

1. In User mode, press and hold down " 7 + 6 " buttons. (7= R ead + 6= O nly)		Solid GREEN LED will change to blinking GREEN and BLUE LEDs
2. Release 7+6 buttons and press " UNLOCK "	→	GREEN and BLUE LEDs will change to a solid GREEN LED indicating the drive is configured as Read-Only



Note: 1. This setting is activated the next time the drive is unlocked.

- 2. If a User set the drive as Read-Only, Admin can override it by setting the drive as Read/Write in Admin mode.
- 3. If Admin set the drive as Read-Only, the User cannot set the drive as Read/Write

23. Enable Read/Write in User Mode

To set the diskAshur DT² to Read/Write, first enter the "**User Mode**" as described in section 20. Once the drive is in **User Mode** (solid GREEN LED) proceed with the following steps.

1. In User mode, press and hold down " 7 + 9 " buttons. (7= R ead + 9= W rite)	3 →	Solid GREEN LED will change to blinking GREEN and BLUE LEDs
2. Release 7+9 buttons and press " UNLOCK "		GREEN and BLUE LEDs will change to a solid GREEN LED indicating the drive is configured as Read/Write



Note: 1. This setting is activated the next time the drive is unlocked.

- 2. If a User set the drive as Read-Only, Admin can override it by setting the drive as Read/Write in Admin mode.
- 3. If Admin set the drive as Read-Only, the User cannot set the drive as Read/Write





24. Brute Force Protection

If an incorrect PIN is entered 15 (3 x 5 PIN clusters) consecutive times, then all Admin/User PINs, the encryption key and all data will be deleted and lost forever. The diskAshur DT² will then need to be formatted and partitioned before it can be reused.

- 1. If a PIN is entered incorrectly 5 (five) consecutive times, all LEDs RED, GREEN, BLUE will light up and become solid.
- 2. Switch the **ON/OFF** power button **OFF** and then back **ON** again to get five more PIN attempts. If PIN is incorrectly entered 5 more times. (10 in total - 5 from step 1 and 5 from step 2) all LEDs - RED. GREEN. BLUE will light up and become solid again.
- **3**. Switch the **ON/OFF** power button **OFF**, then hold down the "**SHIFT**" button while switching the power back **ON** again, all LEDs - RED, GREEN, BLUE will light up and blink together.
- **4**. With all LEDs blinking, enter "**47867243**" and press the "**UNLOCK**" button to get 5 final attempts.



Caution:

After 15 consecutive incorrect PIN entries the Brute Force Defence Mechanism activates and deletes all Admin/User PINs, the encryption key and data. A new Admin PIN must be created, refer to Section 17 on page 13 on 'How to Create an Admin PIN after a Brute Force attack or Reset', the diskAshur DT² will also need to be partitioned and formatted before any new data can be added to the drive.

How to perform a complete reset **25.**

To perform a complete reset, the diskAshur DT² must be in a standby state (solid RED LED). Once the drive is reset then all Admin/User PINs, the encryption key and all data will be deleted and lost forever and the drive will need to be formatted and partitioned before it can be reused.

To reset the diskAshur DT² proceed with the following steps.

1. In standby state, press and hold down " 0 " button until all LEDs blink alternately on and off	Solid RED LED will change to all LEDs, RED, GREEN and BLUE blinking alternately on and off	
2. Press and hold down "2 + 7" buttons until all LEDs become solid for a second and then to a solid RED LED	RED, GREEN and BLUE alternating LEDs will change to all solid for a second and then to a solid RED LED indicating the drive has been reset	



Important: After a complete reset a new Admin PIN must be created, refer to Section 17 on page 13 on 'How to Create an Admin PIN after a Brute Force attack or Reset', the diskAshur DT² will also need to be partitioned and formatted before any new data can be added to the drive.





26. Initialising and formatting the diskAshur DT²

After a 'Brute Force Attack' or a complete reset of the diskAshur DT² will delete all data, encryption key and partition settings. You will need to initialise and format the diskAshur DT² before it can be used.

To initialise your diskAshur DT², do the following:

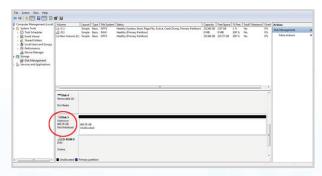
- 1. Attach the diskAshur DT² to the computer.
- 2. Create a new Admin PIN see page 13, section 17, 'How to create an Admin PIN after a Brute Force attack or reset'.
- 3. With the diskAshur DT² in standby state (RED LED) enter New Admin PIN to unlock (GREEN LED).
- 4. Windows 7: Right click Computer and then click Manage and then select Disk Management Windows 8: Right-click left corner of desktop and select Disk Management Windows 10: Right click on the start button and select Disk Management
- 5. In the Computer Manage window, click **Disk Management**. In the Disk Management window, the diskAshur DT² is recognised as an unknown device that is uninitialised and unallocated.



Note: If the Initialise Disk Wizard window opens, click Cancel.



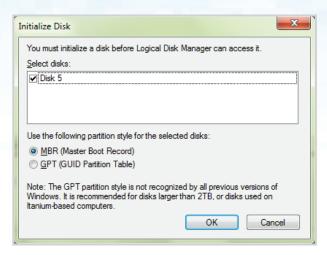
6. Right-click Unknown Disk, and then select Initialise Disk.







7. In the Initialise Disk window, click **OK**.



8. Right-click in the blank area under the Unallocated section, and then select New Simple Volume. The Welcome to the New Simple Volume Wizard window opens.



- 9. Click Next.
- 10. If you need only one partition, accept the default partition size and click **Next**.
- 11. Assign a drive letter or path and click **Next**.
- 12. Create a volume label, select Perform a quick format, and then click **Next**.
- 13. Click Finish.
- 14. Wait until the format process is complete. The diskAshur DT² will be recognised and it is available for use.







27. diskAshur DT² Setup for Mac OS

Your diskAshur DT² is preformatted in NTFS for Windows. To reformat the drive to a Mac compatible format please read below.

Once the drive is unlocked, open Disk Utility from Applications/Utilities/Disk Utilities.

To format the diskAshur DT2:

1. Select diskAshur DT² from the list of drives and volumes. Each drive in the list will display its capacity, manufacturer, and product name, such as 'iStorage diskAshur DT² Media' or 232.9 diskAshur DT².



2. Click the 'Erase' button (figure 1).



figure 1

3. Enter a name for the drive (figure 2). The default name is Untitled. The name of the drive will eventually appear on the desktop.

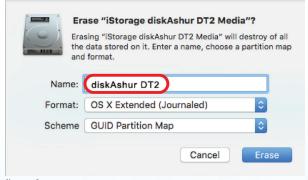


figure 2





4. Select a scheme and volume format to use. The Volume Format dropdown menu (figure 3) lists the available drive formats that the Mac supports. The recommended format type is 'Mac OS Extended (Journaled).' The scheme format dropdown menu lists the available schemes to use (figure 4). We recommend using 'GUID Partition Map' on drives larger than 2TB.

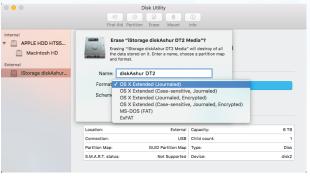


figure 3

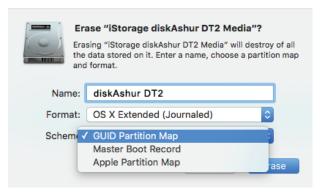


figure 4

5. Click the 'Erase' button. Disk Utility will unmount the volume from the desktop, erase it, and then remount it on the desktop.





28. diskAshur DT² Setup for Linux (Ubuntu 14.04)

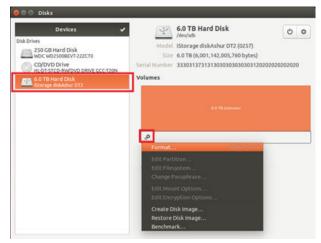
If your diskAshur DT² has been initialised and formatted in NTFS for Windows, you can directly use the drive on Ubuntu. If not, please read below.

To format the diskAshur DT² as FAT filesystem:

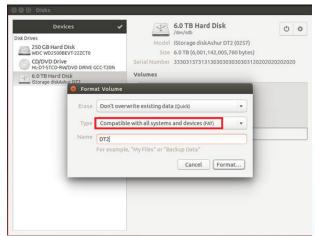
1. Open 'Unity Dash' and type 'Disks' in the search box. Click on the 'Disks' utility when displayed.



2. Click to select the drive (6.0 TB Hard Disk) under 'Devices'. Next click on the gears icon under 'Volumes' and then click on '**Format**'.



3. Select 'Compatible with all systems and devices(FAT)' for the 'Type' option. And enter a name for the drive, e.g. diskAshur DT². Then, click the 'Format' button.

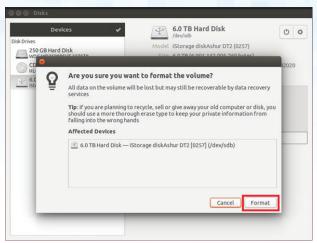




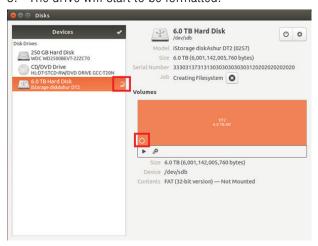




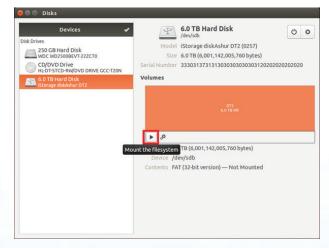
4. Click 'Format' again.



5. The drive will start to be formatted.



6. After the format process is finished, click to mount the drive to Ubuntu.

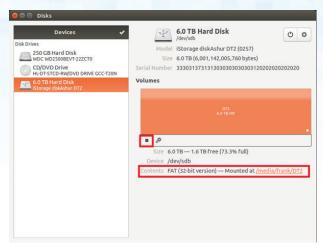








7. Now the drive should be mounted to Ubuntu and ready to use.

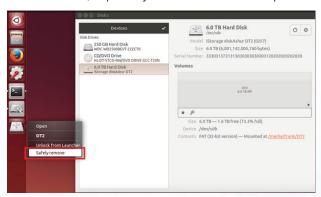


8. A disk icon will be shown as seen in the image below. You can click the disk icon to open your drive.



Lock diskAshur DT² for Linux (Ubuntu 14.04)

It is strongly recommended to right click your drive icon and then click '**Safely remove**' in the OS to eject (lock) your diskAshur DT², especially after data has been copied or deleted from the drive.







29. Hibernating, Suspending, or Logging off from the Operating System

Be sure to save and close all the files on your diskAshur DT² before hibernating, suspending, or logging off from the operating system.

It is recommended that you lock the diskAshur DT² manually before hibernating, suspending, or logging off from your system.

To lock, simply press the 'LOCK' button on the diskAshur DT² or by clicking the 'Safely Remove Hardware/Eject' icon within your operating system.



Attention: To ensure your data is secure, be sure to lock your diskAshur DT² if you are away from your computer.

30. How to check Firmware in Admin mode

To check the firmware revision number, first enter the "**Admin Mode**" as described in section 7. Once the drive is in **Admin Mode** (solid BLUE LED) proceed with the following steps.

1. In Admin mode press and hold down "3 + 8" until GREEN and BLUE LEDs blink together



Solid BLUE LED will change to blinking GREEN and BLUE LEDs

- 2. Press the "UNLOCK" button and the following happens;
- a. All LED's (RED, GREEN & BLUE) become solid for 1 second.
- b. RED LED blinks indicating the integral part of the firmware revision number.
- c. GREEN LED blinks indicating the fractional part.
- d. All LED's (RED, GREEN & BLUE) become solid for 1 second.
- e. LEDs return to solid BLUE

For example, if the firmware revision number is '1.2', the RED LED will blink once (1) and the GREEN LED will blink two (2) times. Once the sequence has ended the RED, GREEN & BLUE LED's will blink together once and then return to a solid BLUE LED.





31. How to check Firmware in User Mode

To check the firmware revision number, first enter the "**User Mode**" as described in section 20. Once the drive is in **User Mode** (solid GREEN LED) proceed with the following steps.

1. In User mode press and hold down "3 + 8" until GREEN and BLUE LEDs blink together



Solid GREEN LED will change to blinking GREEN and BLUE LEDs

- 2. Press the "**UNLOCK**" button and the following happens;
- a. All LED's (RED, GREEN & BLUE) become solid for 1 second.
- b. RED LED blinks indicating the integral part of the firmware revision number.
- c. GREEN LED blinks indicating the fractional part.
- d. All LED's (RED, GREEN & BLUE) become solid for 1 second.
- e. LEDs return to solid GREEN

For example, if the firmware revision number is '1.2', the RED LED will blink once (1) and the GREEN LED will blink two (2) times. Once the sequence has ended the RED, GREEN & BLUE LED's will blink together once and then return to a solid BLUE LED.





32. Technical Support

iStorage provides the following helpful resources for you:

iStorage's Website https://www.istorage-uk.com

E-mail correspondence support@istorage-uk.com

Telephone support with our Technical Support Department on **+44 (0) 20 8991-6260**. iStorage's Technical Support Specialists are available from 9:00 a.m. to 5:30 p.m. GMT - Monday through Friday.

33. Warranty and RMA information

Two Year Warranty:

iStorage offers a 2-year warranty on the iStorage diskAshur DT² against defects in materials and workmanship under normal use. The warranty period is effective from the date of purchase either directly from iStorage or an authorised reseller.

Disclaimer and terms of warranty:

THE WARRANTY BECOMES EFFECTIVE ON THE DATE OF PURCHASE AND MUST BE VERIFIED WITH YOUR SALES RECEIPT OR INVOICE DISPLAYING THE DATE OF PRODUCT PURCHASE.

ISTORAGE WILL, AT NO ADDITIONAL CHARGE, REPAIR OR REPLACE DEFECTIVE PARTS WITH NEW PARTS OR SERVICEABLE USED PARTS THAT ARE EQUIVALENT TO NEW IN PERFORMANCE. ALL EXCHANGED PARTS AND PRODUCTS REPLACED UNDER THIS WARRANTY WILL BECOME THE PROPERTY OF ISTORAGE.

THIS WARRANTY DOES NOT EXTEND TO ANY PRODUCT NOT PURCHASED DIRECTLY FROM ISTORAGE OR AN AUTHORIZED RESELLER OR TO ANY PRODUCT THAT HAS BEEN DAMAGED OR RENDERED DEFECTIVE: 1. AS A RESULT OF ACCIDENT, MISUSE, NEGLECT, ABUSE OR FAILURE AND/OR INABILITY TO FOLLOW THE WRITTEN INSTRUCTIONS PROVIDED IN THIS INSTRUCTION GUIDE: 2. BY THE USE OF PARTS NOT MANUFACTURED OR SOLD BY ISTORAGE; 3. BY MODIFICATION OF THE PRODUCT; OR 4. AS A RESULT OF SERVICE, ALTERNATION OR REPAIR BY ANYONE OTHER THAN ISTORAGE AND SHALL BE VOID. THIS WARRANTY DOES NOT COVER NORMAL WEAR AND TEAR.

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