



Stellar Data Recovery - Technician



1. Overview

Stellar Data Recovery – Technician is a complete solution to recover lost data from your hard disks and removable drives. It is a complete solution for all your data loss problems. The powerful scan engine of the software does a thorough scan of the selected storage device, shows a preview of files found during the scanning process and finally saves them to specified destination. Separate options to recover documents, folders, mails or multimedia files from the storage media is also available.

Stellar Data Recovery – Technician allows you to save scan information to resume recovery process from the same point, at a later stage. It also has an option to create an image of a complete hard drive or volume/partition on the drive. This image file can be used to recover lost data even when the actual hard drive is not available. This is very helpful, in case there is a probability of hard drive failure during the recovery process or the drive has lot of bad sectors.

Listed below are some of the new and key features of the product.

Key Features

- Simultaneous Scan of multiple File System (NTFS, FAT, FAT16, FAT32 and ExFat) in a logical drive.
- Support of all types of CD/DVD with CDFS, UDF, HFS+ file system
- Support to search specific type of files in a logical drive/specific folder.
- Support to search specific folder for lost & deleted data.
- Automatic switching from Quick Scan to deep scan if the result of quick scan is not up to mark.
- Raw Recovery support of HD-MOV (Cannon Camera model).

- Raw Files Recovery is done automatically with advance search.
- Support of Windows 10 including all previous Windows OS.
- Preview of files before recovery
- Raw recovery of volumes and hard drives to search data based on signatures
- Recovers data from accidentally deleted volumes
- Recovers data from formatted volumes
- Recovers deleted files and folders
- Recovers from hard disk, removable media such as pen drives, memory cards etc
- Resume recovery option to recover data later on
- Supports 300 or more File types
- Tabbed view of scanned Tree – File Type / Tree View / Deleted List
- User can add / edit their file types which makes it more robust
- User can create image of hard disk and volumes for recovery
- User Friendly Interface.
- Multiple DPI Supported (100%, 125%, 150%).
- Improved Unicode support.
- Faster & more efficient scan engine.
- Better & fast Quick scan engine for searching lost partition.
- Option to turn On/ turn Off preview of files while scanning is in progress.
- Enhanced Scanning Progress and Details scanning status- scanning status, Time elapsed and Time Left.
- In Advanced Settings : Enhanced Support of Add New Header/Edit Header.
- Improved preview support.
- Categorization of scanned results

2. Getting Started

- Installation Procedure
- Launching the Software
- User Interface
- Ordering the Software
- Registering the Software
- Updating the Software
- Stellar Support

2.1. Installation Procedure

Before installing the software, please ensure that your system meets the following minimum system requirements:

Minimum System Requirements:

Processor : Pentium Processors

RAM : 1 GB minimum

Hard Disk : 50 MB

Operating Systems : Windows 10 / 8.1 / 8 / 7 / Vista / XP

To install the software:

1. Double-click **StellarDataRecovery-Technician.exe** file.
2. **Select Setup Language** dialog box is displayed. From the drop-down list, select the desired language to use during the installation.
3. **Setup – Stellar Data Recovery – Technician** dialog box is displayed. Click **Next** to proceed.
4. **License Agreement** dialog box is displayed. Select **I accept the license agreement** option in the **License Agreement** dialog box. Click **Next**.
5. **Select Destination Location** dialog box is displayed.
6. Specify a destination in the text box or click **Browse** to select a destination. Click **Next**. **Select Start Menu folder** dialog box is displayed.
7. Specify a destination in the text box or click **Browse** to select a destination. Click **Next**. **Select Additional Tasks** dialog box is displayed.
8. Select the required check boxes for creating desktop icon and quick launch icon of the software. Click **Next**.
9. In the **Ready to Install** dialog box, verify the settings. Click **Back** to make any changes, or click **Install** to install the software.

10. After successful installation of the software, the “**Completed installation of Stellar Data Recovery – Technician**” screen opens. Click **Finish**.

***Note:** Clear **Launch Stellar Data Recovery – Technician** check box to prevent the software from launching automatically.*

2.2. Launching the Software

To launch Stellar Data Recovery – Technician in Windows 10:

- Click Start icon -> All apps -> **Stellar Data Recovery – Technician** -> **Stellar Data Recovery – Technician**. Or,
- Double click **Stellar Data Recovery – Technician** icon on the desktop. Or,

To launch Stellar Data Recovery – Technician in Windows 8.1 / 8:

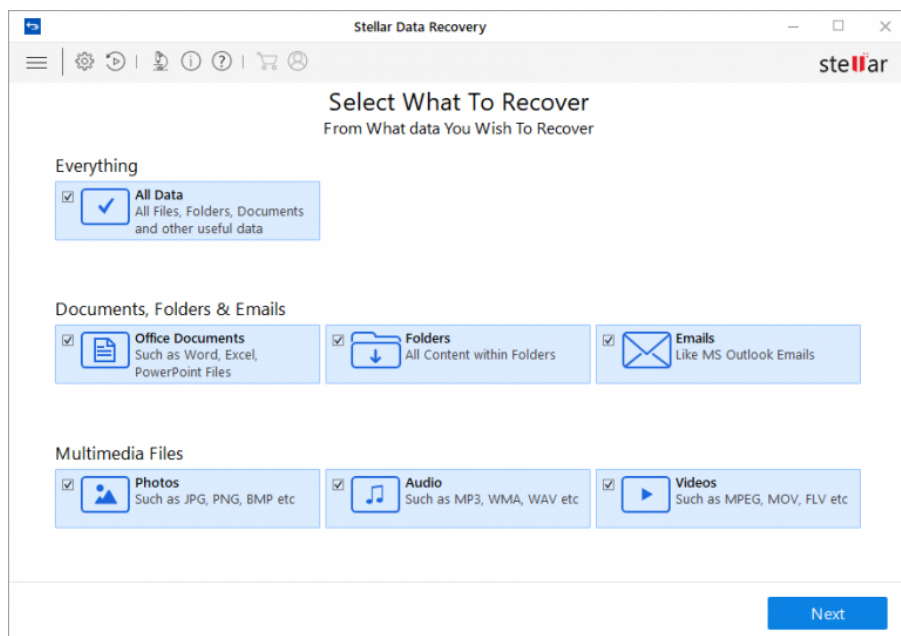
- Double click **Stellar Data Recovery – Technician** icon on the desktop.

To launch Stellar Data Recovery – Technician in Windows 7 / Vista / XP:

- Click Start -> Programs -> **Stellar Data Recovery – Technician** -> **Stellar Data Recovery – Technician**. Or,
- Double click **Stellar Data Recovery – Technician** icon on the desktop. Or,

2.3. User Interface

Main user interface of **Stellar Data Recovery – Technician** software is quiet simple, easy to use and effective. On launching the software **Select What To Recover** screen is displayed:



Main user interface contains 3 major recovery options:

1. **Everything** : This option recovers all the data from a particular drive or location selected for recovery.
2. **Documents, Folders & Emails** : This option recovers office documents, files, folders and mails from various email clients.
3. **Multimedia Files** : Select this option to recover photos, audio and videos.

It also has user-friendly buttons to quickly access the menus.

2.3.1. Buttons

Some other general buttons/icons that you will encounter while using **Stellar Data Recovery – Technician** software are as follows:



Home

Click this button to return to main screen at any point.



**Advanced
Settings**

Click this button to configure general, file types and recovery settings.

**About**

Click this button to display information about the application.

**Back**

Click this button to move to previous screen from current window.

**Help**

Click this button to open user help guide.

**Buy Online**

Click the button to buy the software online.

**Register**

Click this button to register the software.

Next

Click this button to move to the next window.

Recover

Click this button to save the recovered data.


Scan

Click this button to start the scanning process.

Stop

Click this button to stop the scanning process at any time.

2.4. Ordering the Software

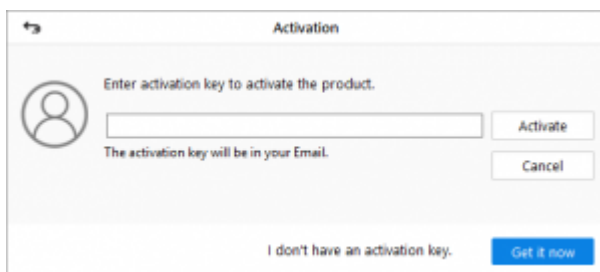
You can purchase **Stellar Data Recovery – Technician** software online. For pricing details and to place an order, if you have already downloaded and installed the demo version of the software, click directly on the  (*Buy*) button on the main user interface.

2.5. Registering the Software

The demo version is for evaluation purpose only. You need to activate the software to use its full functionality. Use the Activation Key received via email after purchasing the software to activate it.

To activate the software:

1. Run the demo version of **Stellar Data Recovery – Technician** software.
2. Click the **Activation** button. Activation window is displayed as shown below:





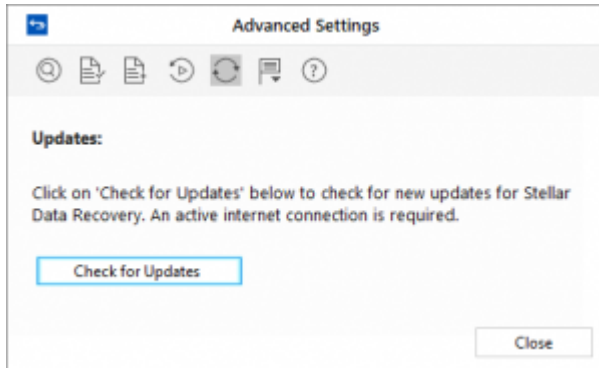
3. If you don't have the activation key, click **Get it now** button in the window to purchase the software.
4. Once the order is confirmed, an Activation Key is sent to the email that you have provided while purchasing the software.
5. Paste or type the **Activation Key** (received through email after purchasing the product) and click **Activate** button (**Please ensure an active Internet connection**).
6. **Stellar Data Recovery – Technician** automatically communicates with the license server to verify the entered key. If the entered key is valid, activation is completed successfully.
7. **'Stellar Data Recovery Activated Successfully'** message is displayed. Click **OK**.

2.6. Updating the Software

Stellar Data Recovery – Technician Update Wizard keeps your copy up-to-date. The wizard runs the update process and automatically checks for updates. You need an active internet connection to check for updates using Update option of the application. Using **Update** option, you can check for both, latest minor and major versions available online. You can easily download minor versions using the update wizard. However, you need to purchase any major version updates whenever they are available.

To start Stellar Data Recovery – Technician Update Wizard:

1. Run **Stellar Data Recovery – Technician** software.
2. On the main screen, click **Advanced Settings**  button.
3. In the **Advanced Settings** menu, click **Update**  button.



4. From **Updates** dialog box select **Check for Updates** option.
5. '**Stellar Data Recovery – Technician Update Wizard**' window pops up. Click **Next** to proceed.
6. The wizard will start searching for the latest updates and if it finds any new version, a window will pop up indicating the availability an update.
7. Click **Next** and the software will start downloading update files from the server. When the process is complete, the software will updated to the latest version.

Live Update may not happen due to following reasons:


- Internet connection failure
- Unable to download configuration files
- Unable to locate updated files or version
- Unable to locate executable file

Tip: *You need to purchase the major version updates of the software, whenever they are available.*

2.7. Stellar Support

Our Technical Support professionals will provide solutions for all your queries related to Stellar Products.

You can either **Call Us** or **Go Online** to our support section at <http://www.stellarinfo.com/support/>

For **price details** and to **place an order**, click directly on the  (*Buy*) button on the main user interface.

Chat Live with an **Online technician** at <http://www.stellarinfo.com>

Search in our extensive **Knowledgebase**

at <https://www.stellarinfo.com/support/kb/index.php/category/raid-data-recovery>

Submit enquiry at <http://www.stellarinfo.com/support/enquiry.php>

E-mail to Stellar Support at support@stellarinfo.com

3. How To

- Recover Data
- Recover Lost Partition
- Recover Data from Disk Images
- Deep Scan
- Configure Advanced Settings
- RAID Recovery

3.1. Recover Data

Stellar Data Recovery – Technician provides you different options to recover your data. To recover data, you have to first scan the hard disk or volume. If you want to recover data using a previously scanned information or an image file, **Stellar Data Recovery – Technician** has an option of scanning them as well. After scanning, you can preview scanned files before recovery. You can also filter, find, and select the files you want to recover. You can then recover and save selected files to a destination folder of your choice.

With **Stellar Data Recovery – Technician** you can recover specific data. The software provides the following recovery options:

- **Everything** – This option recovers complete data from the selected hard drive or storage media. All documents, files and folders present or deleted from the drive/media can be recovered using this option.
- **Documents, Folders and Emails** – Use to option to recover lost or deleted documents, folders and their content and mail items.
- **Multimedia Files** – Using this option you can recover deleted or lost multimedia files like photos, audios and videos.

The software also allows you to select any connected drive or a specific location on a drive or storage media connected to the system. Following selection options are provided by the software:

- **Common Locations** – Common Locations include Desktop, My Documents and Choose Location.
- **Connected Drives** – These include all the drives and external storage media connected to the system.
- **Other Locations** – These include lost or deleted partitions and existing disk images.

You can also recover data from deleted and lost volumes of your computer's hard disk.

Recover Lost Partition option will list all volumes that have been deleted from your hard disk.

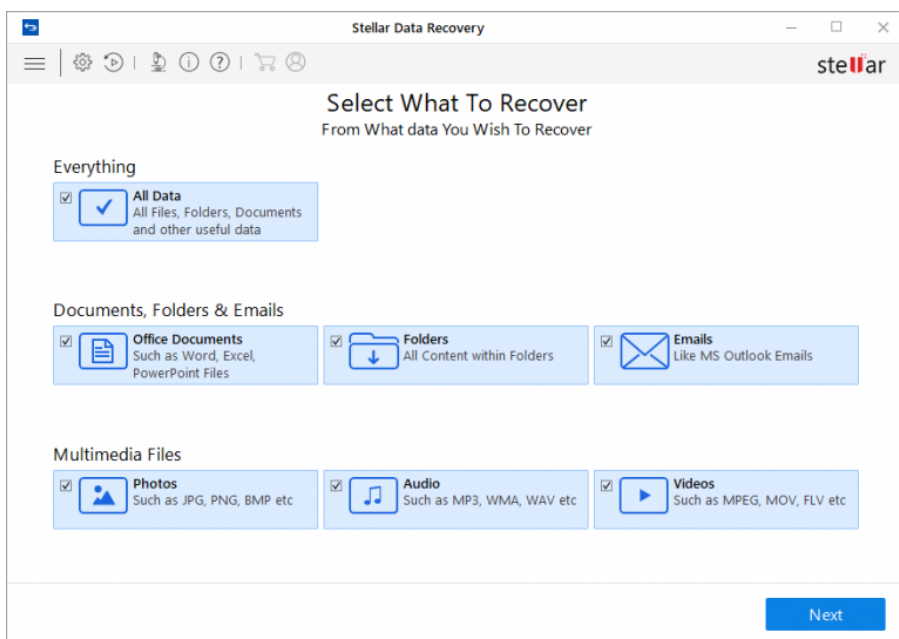
- Scan Existing Volume
- Scan CD/DVD
- Save Scan Information
- Preview Scan Result
- Recover Files
- Advanced Settings

3.1.1. Scan Existing Volume

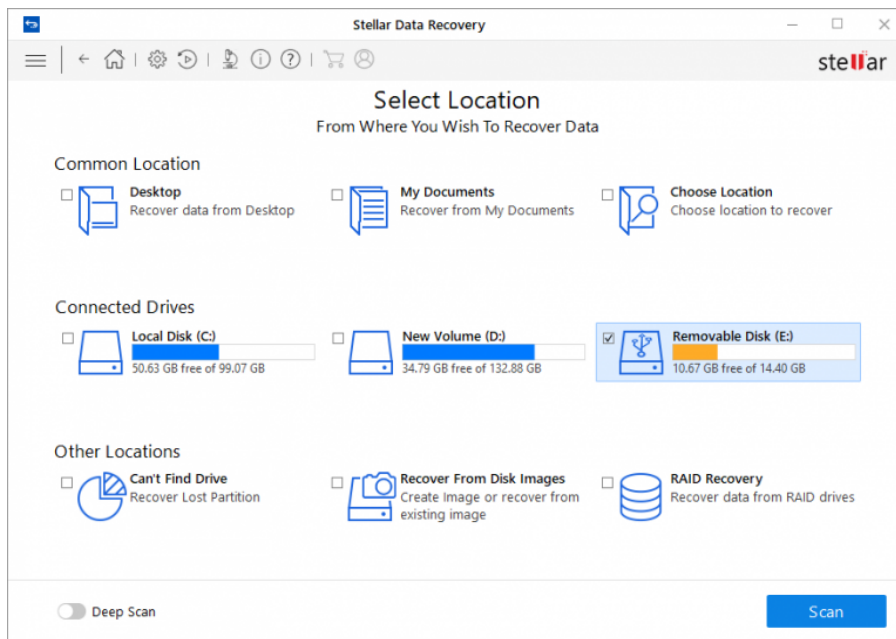
With **Stellar Data Recovery – Technician** you can recover your deleted or lost data from the hard drive or external storage media connected to the system. Almost all data of the volume can be found by performing recovery on selected volume or removable media. **NTFS, FAT, FAT16, FAT32 and ExFat** file systems are supported by the application.

To Scan Existing Volume:

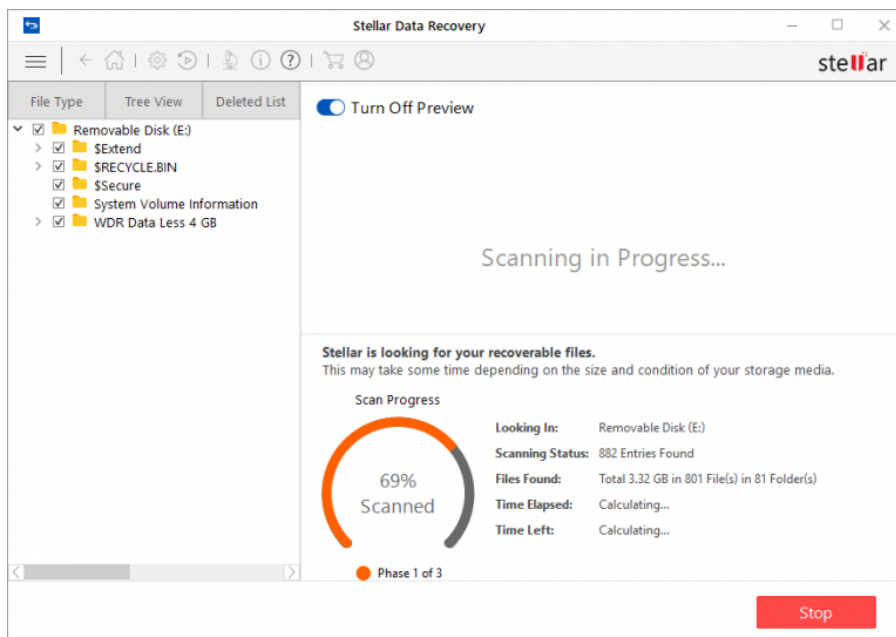
1. Run **Stellar Data Recovery – Technician**.
2. From **Select What to Recover** screen, select the type of data i.e. **Everything**, **Documents, Folders & Emails** or **Multimedia Files**, you want to recover.



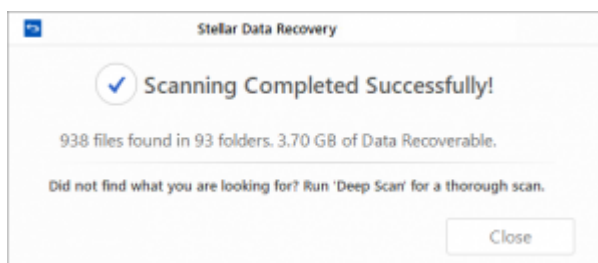
3. Click **Next**.
4. From **Select Location** screen, select a location from **Common Locations** or any of the **Connected Drives**. In case you want to scan a specific folder, from **Common Locations** select **Choose Location**. Browse to any desired location, select a folder you want to scan and click **Select Folder**.



5. Click **Scan**. A screen showing the scanning process is displayed. Click **Stop** to stop the scan at any point.



6. Once the scanning process is completed, details of the files and folder found are displayed in a dialog box as shown below:



Deep Scan an Existing Volume:

Running deep scan enables you to scan the selected volume thoroughly, when you are unable to locate data that you want to recover.

1. Run **Stellar Data Recovery – Technician**.
2. From **Select What to Recover** screen, select the type of data i.e. **Everything**, **Documents, Folders & Emails** or **Multimedia Files**, you want to recover.



3. Click **Next**.
4. From **Select Location** screen, select a location from **Connected Drives**.
5. Enable deep scan which is on bottom left of your screen.

6. Click **Scan**. A screen showing the scanning process is displayed.

7. Once the scanning process is completed, details of the files and folder found are displayed in a dialog box.

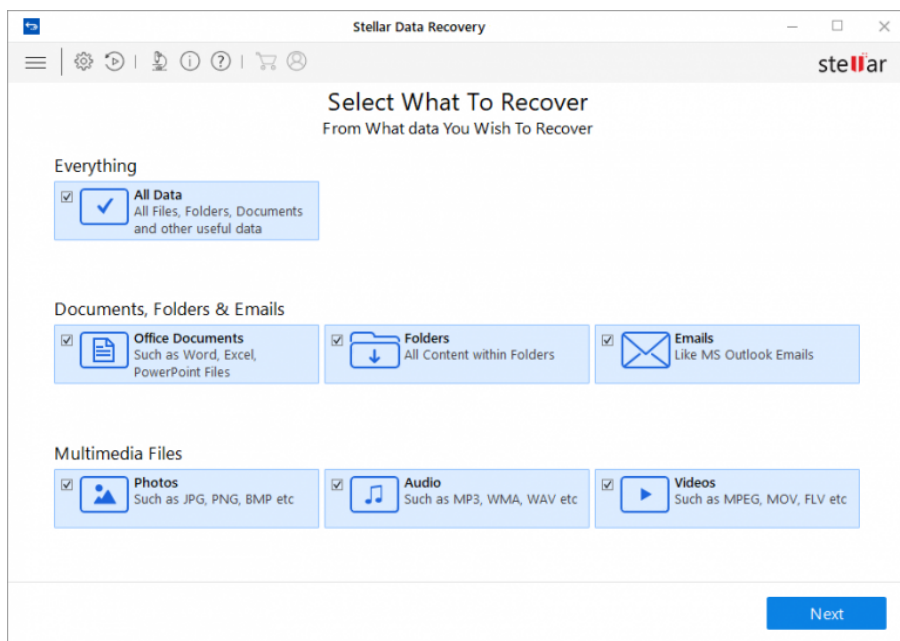
Note: You can select only one volume at a time for recovery. Deep scan is applicable only for connected drive. You can disable deep scan if you want to perform Quick scan.

3.1.2. Scan CD/DVD

A CD/DVD disk might become unreadable or corrupt due to a number of factors, such as heat, dust, scratches on the disk. **Stellar Data Recovery – Technician** software can recover data from damaged CD-ROM, CD-RW, DVD and DVD-RW discs. **Stellar Data Recovery – Technician** application supports recovery from corrupt optical media disks burnt on Windows, Linux, UNIX, and Macintosh systems. The application performs a scan on the selected optical media for recovery.

To scan CD/DVD:

1. Run **Stellar Data Recovery – Technician**.
2. From **Select What to Recover** screen, select the type of data i.e. **Everything**, **Documents, Folders & Emails** or **Multimedia Files**, you want to recover.



3. Click **Next**.

4. From **Select Location** screen, select the connected CD/DVD drive from **Connected Drives**. Click **Scan**. Click **Stop** to stop the scan at any point.

Note: You can select only one CD/DVD at a time for recovery.

3.1.3. Save Scan Information

You can save scan result of any scanning process as DAT file. You can save scan result of a complete or incomplete recovery process.

Saving scan information saves your time. You can resume recovery by selecting the DAT file without scanning the drive again.

To save scan information:

1. In '**Scan Results**' window. Click **Back** button or close the application.
2. You will be prompted to save scan information.

3. Click **Yes**.

4. In '**Save scan information**' dialog box, browse to the location where image file should be saved. Type the name of the image file in the **File name** text box. Click **Save**.

Scan Information file will be saved with DAT extension.

Note: *If you stopped a scanning process, you can save scan information up to that point. However, you should perform complete scan, and then save scan result.*

Tip: *It is recommended that you should save 'scan information file' and 'hard disk image' at different locations with proper name such that you can easily retrieve the required DAT file.*

3.1.4. Preview Scan Result

Stellar Data Recovery – Technician shows the preview of the files and folders present in the scanned physical volume or the removable media. All files and folders that are found in the scanned volume or removable media are shown in a three pane structure. The three panes are the left, top-right, and the bottom-right pane.

- In the left-pane, a tree structure according to folders is created.
- Top right-pane shows preview of file that are supported by the software.
- In bottom-right pane, all files and folders that are in the selected folder in the tree view are listed.

To preview a file:

- After the scanning process is completed, all the files are listed in a **Preview** window as shown below:

- Click a tab in the left pane.
 - **File Type:** In this view, files/folders are listed according to their type such as Document, Audio, Video, Archive, etc.
 - **Tree View:** In this view, folders are listed in a hierarchical arrangement.
 - **Deleted List:** All the files and folders deleted from the drive are listed in this view.
- Click a folder in the left pane to list files of that folder in the bottom right pane.
- Double-click the folder to move deeper into the folder.
- Click a file in the bottom-right pane to preview the file. Only supported files can be previewed.

Note: *If you can't find your desired file/folder in the list of scanned and detected files, you can choose **Deep Scan** option to perform a comprehensive scan of the selected drive or location.*

3.1.5. Recover Files

Stellar Data Recovery – Technician can recover all files of supported file formats. You can save files and folders listed under the preview section at a location of your choice.

To recover lost files:

1. From the **Preview** window, select the files and folders you want to recover. You can narrow the search result by selecting only specific files or type of files to view or recover from the **File Type** tab or to recover deleted files select the files from the **Deleted List**.

- **To search for specific files**
 - Enter the name of the file in **Search Files** field and hit To move to the next found entry **click** or press **CTRL + g**
- **To save all files**
 - Check the root node in the left pane and then click **Recover** or from the file list pane select the check box besides the **File Name** tab and then click **Recover**.
- **To save individual files(s)**
 - Click a folder in the left pane to view files stored in it.
 - Check the file(s) in the bottom right pane and then click **Recover**.
- **To recover individual file**
 - Right-Click the file in the file-list and select Recover option.

To recover files of specific category:

- Click **File Type List** tab. Check the **File Types** category folders as per your choice. The files of the selected '**file types folders**' will be listed in the file list pane. You can select the individual files in the list.
- Click **Recover**.

2. A Recover dialog box is displayed. Click Browse to select a destination to save data or click on Advanced Settings to configure advance recovery options. Specify the destination and choose the options as per requirement.

3. Click Start Saving to start saving process. If the destination files have same names then you can overwrite, rename or skip. Choose as per the case.

The selected files will be recovered and saved at the specified location. Navigate to the destination to view files.

3.1.6. Advanced Settings

Stellar Data Recovery – Technician lets you configure the recovery options while saving the files. With Advance Settings you can

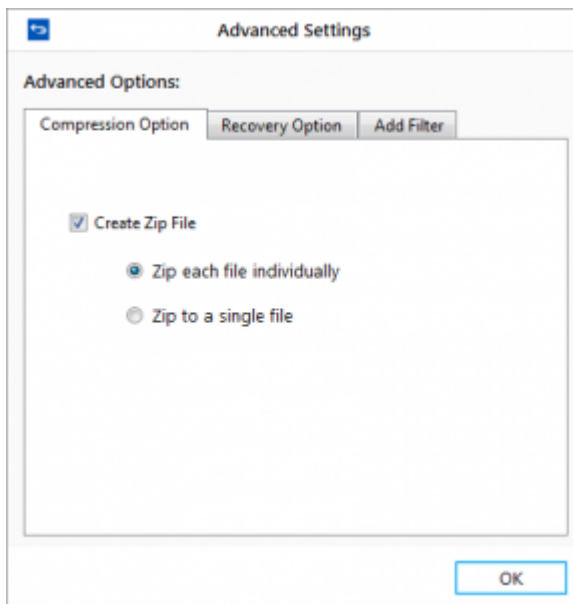
- Apply Compression
- Change Recovery Option
- Specify file filters

Apply Compression

You can save recovered files in compressed zip folders. However, compression can be applied only if recovered files are being saved to a local disk or drive.

To apply compression:

- From the **Advanced Options** select **Compress** Option.



- Check the Create zip file check box. Select:
 - **Zip each file individually:** This option saves all selected file in their corresponding zip folder.
 - **Zip to a single file:** This option saves all recovered files in a single zip folder.
- Click OK.

Change Recovery Option

This section is shown when all the files and folders are selected for recovery. You can choose to exclude or include the deleted files while recovery.

To change recovery option:

- From the **Advanced Options** select **Recovery Option**.

- Select any one of the following options:
 - **All files & folders (Exclude deleted):** Choose this option to exclude the deleted files while recovering the selected files and folders.
 - **All files & folders (Include deleted):** Choose this option to include the deleted files and folders while recovering the selected files and folders.
 - **Only deleted files & folders:** Choose this option to recover only deleted files and folders.
- Click **OK**.

Specify Filters

You can add a filter according to your requirement.

To apply filter:

- From the **Advanced Options** select **Add Filter**.

- Select a group of file types from the drop down box and click **Add** button, to include it in the list.
- To remove any extension from the list simple select the extension and click **Remove** button.
- Select **Include these files only** to include the listed file types during recovery or **Exclude these files only** to leave the listed file types during recovery. Click **OK**.

3.2. Recover Lost Partition

Stellar Data Recovery – Technician software allows you to search and recover data from lost and deleted partitions of a hard disk. You should use this option to recover data from an accidentally deleted partition. This option will search and list all the deleted and lost partitions in the hard disk along with existing volumes.

To recover lost partition:

1. Run **Stellar Data Recovery – Technician**.
2. From **Select What to Recover** screen, select the type of data i.e. **Everything**, **Documents, Folders & Emails** or **Multimedia Files**, you want to recover.
3. Click **Next**.
4. On **Select Location** screen, select **Can't Find Drive** from **Other Locations**.

5. Click **Scan**. The following screen is displayed:

6. In the **Select Drive** section all the hard drives connected to the system are listed with their details. From this section, choose a hard drive you want to scan for lost partitions and click **Search**. A scan for lost or deleted partitions will be performed in the selected disk or drive.

7. Any 'lost partition' detected, will be listed in the **Partition Found** section as shown below:

8. From the list of partitions found, select any desired partition and click **Scan** to continue with the recovery process.

Note: *If you can't find your desired partition in the **Partition Found** section, you can choose **Deep Scan** option to perform a comprehensive scan of the selected drive for deleted or lost partition.*

3.3. Recover Data from Disk Images

Disk Image is a mirror image of any storage device from which you wish to recover data, such as “Internal or External Hard Disks”, “Pen Drives”, “Volumes”, “Storage Cards” etc. When you create an image, scanning process is not performed; instead a copy of the selected source is saved as IMG file. You can start recovery either after completion of drive imaging or at later time by using ‘**Recovery from Disk Images**’ option.

Stellar Data Recovery – Technician allows you to recover data from any previously created disk images or create a disk image of any drive, partition or volume and perform the recovery process on the newly created image. Additionally, you can also perform the recovery process on any previously saved scan information.

- Create Image
- Recover from Existing Image or Scan Information

3.3.1. Create Image

You can create an image of different storage devices and save them as IMG file by using the **Create Image** option of **Stellar Data Recovery – Technician**. The storage devices whose image you can create are:

- Hard Disks
- Existing logical volumes in hard disks
- Removable media such as pen drives, external hard disks etc.

Images, of all sources listed earlier, are saved as IMG file. This IMG file is of same size as of the source. You can use the image files to resume recovery later.

The image you create by using **Stellar Data Recovery – Technician** will be of same size as the selected hard disk, pen drive, or volume. Ensure that the location where image file needs to be saved has sufficient space to store the image file.

To create image file of hard disk, volume, or removable media:

1. Run **Stellar Data Recovery – Technician** software.
2. From **Select What to Recover** screen, select the type of data i.e. **Everything**, **Documents, Folders & Emails** or **Multimedia Files**, you want to recover. Click **Next**.
3. On **Select Location** screen, select **Recover from Disk Images** from **Other Locations** and click **Scan**.

Tip: *It is recommended that you should save 'scan information file' and 'hard disk image' at different locations with proper name such that you can easily retrieve the required image file.*

3.3.2. Recover from Existing Image or Scan Information

With **Stellar Data Recovery – Technician** you can perform the recovery operation on a newly created disk image using Create Image option or on any previously created disk image.

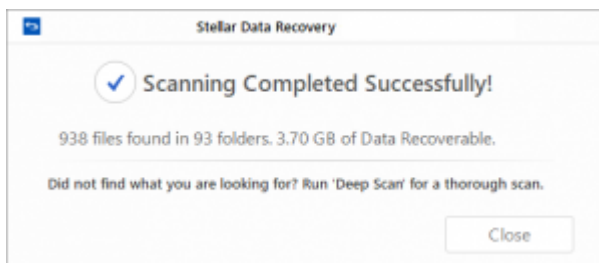
To recover data using any disk image:

1. Run **Stellar Data Recovery – Technician** software.
2. From **Select What to Recover** screen, select the type of data i.e. **Everything, Documents, Folders & Emails** or **Multimedia Files**, you want to recover.
3. Click **Next**.
4. On **Select Location** screen, select **Recover from Disk Images** from **Other Locations** and click **Scan**.

5. From the displayed dialog box select **Recover from Existing Image** option and click **Next**.

6. All the disk images and saved scan information are listed on **Recovery from Image** screen with their respective size. Select the image from which you wish recover data and click **Add**. Alternatively, to remove any image select that image and click **Remove**. To remove all the images, click **Reset**.
7. After adding the images click **Scan** to start the recovery process.
8. A screen showing the scanning process is displayed. Click **Stop** to stop the scan at any point.

9. Once the scanning process is completed, details of the files and folder found are displayed in a dialog box as shown below:



3.4. Deep Scan

Deep Scan allows you to recover data from hard disk, pen drive or volumes of a hard disk. It does a comprehensive scan of the volume to recover each and every bit of lost or deleted data. It searches for lost files on the basis of file signature. This recovery option recovers everything that is found in the selected source. This option is especially helpful in case of severely corrupted volume.

In case, after the quick scan process is completed and your desired file is not included in the list of files detected, you can opt for **Deep Scan** to perform a comprehensive scan of the selected drive or location.

To perform Deep Scan:

- Once quick scan is completed, in the preview window choose **Click Here** option given at the bottom of the window to start **Deep Scan**.









- In case you can't find your desired partition in the **Partition Found** section, you can choose **Deep Scan** option to perform a comprehensive scan of the selected drive for deleted or lost partition.

- Files found during **Deep Scan** can be viewed in the preview window and saved at any desired location.

3.5. Configure Advanced Settings

Advanced Settings can be configured to run **Stellar Data Recovery – Technician** according to personal requirement. This option make this software exceptional and easy to operate.


To set advanced settings:

1. Run **Stellar Data Recovery – Technician**.
2. Click **Advanced Settings** . Using this you can configure following settings:
 - To set preference for preview window, click Preview  button
 - To select file types for recovery, click File list  button
 - To set preferences for file type, click Add File Type  button
 - To resume a recovery process, click Resume Recovery  button
 - To check for updates, click Updates  button
 - To change the software language, click Languages  button
 - To access help manual for this software, click Help  button

3.5.1. Preview

Preview option allows you to apply settings for preview window of the application.

To apply preview settings:

1. Run **Stellar Data Recovery – Technician**.
2. Click **Advanced Settings** button.
3. Click **Preview**  button from **Advanced Settings** window.

4. From the options displayed, select required settings.

3.5.2. Selecting File Format

File types give information about the type of file such as video, audio and its extension. You can select file types while performing signature search such that, scanning process should search only for the specified file types. Various file types are listed in the file list option of **Stellar Data Recovery – Technician**. You can select the required file types for their recovery.

To select file type:

1. Run **Stellar Data Recovery – Technician** software.
2. Click **Advanced Settings** button.
3. Click **File List** button from **Advanced Settings** window.

4. A list of all supported file formats is shown. Select the file types you want to recover.

3.5.3. Header Preferences

Stellar Data Recovery – Technician allows you to add additional file types apart from those already mentioned in **File Lists**. Using **Add File Type** option you can add a new file type or edit an existing file type to facilitate the recovery process.

Add File Type include following options:

- To add new file types manually or automatically, click **Add File Type** button.
- To edit size of existing file types, click **Edit File Type** button.

Add File Type

You can add new file types to the predefined list of supported file types in **Stellar Data Recovery – Technician** using **Add File Type** functionality in **Advanced Settings** window.

You can add header either

- Automatically
- Manually

To add File Type automatically:

- Run **Stellar Data Recovery – Technician**.
- Click **Advanced Settings** button.
- Click **Add File Type** button from **Advanced Settings** window.
- Select '**I don't know how to add file type**'.

- Click **Add** button to browse to the location of file type you want to add.
- You need to add at least 10 or more sample files of the same type to include it in the list of supported file types.
- Name of the added file type will be listed in the left hand side box.
- Type in header file name in the dialog box and then select the header file type from **Select Group** drop down list and the size from **Put Average File Size** text box.
- Click **Add File Type** button.

To add file type manually:

- Run **Stellar Data Recovery – Technician**.
- Click **Advanced Settings** button.
- Click **Add File Type** button from **Advanced Settings** window.
- Select '**I know how to add file type**'.

- Enter the following:
 - Specify **Software Name**.
 - Specify **File Extension**.
 - Select **Group** from the drop down list.
 - Specify **Max File Size** in KB and MB.
 - Specify **Header** in hexadecimal.
 - Specify **At Offset** in decimal.
- Click **Add File Type** button.

Edit File Type

You can also edit an existing file type or newly added file type. You can change every setting of the file type.

To change size of supported file types/remove added file types:

- Run **Stellar Data Recovery – Technician**.
- Click **Advanced Settings** button.
- Click **Add File Type** button from **Advanced Settings** window.
- Click **Edit File Type** button from **Advanced Settings** window.

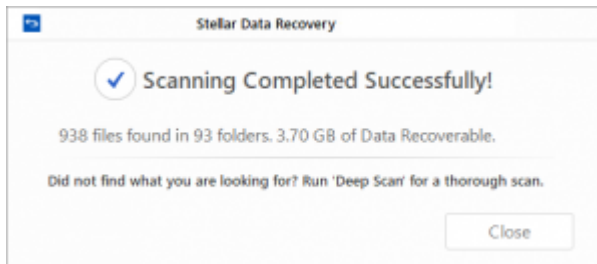
- Select the desired file type from the list and enter the new size of file type in **Put New Average Size** box.
- Click **Edit Size** button to save the size for your file type.
- Click **Remove** button in case you want to delete the selected file type from list.

3.5.4. Resume Recovery

Scan Information file contains information of a scan and is saved as a DAT file. You can save scan information file during any complete or incomplete recovery process. DAT file can be used to restart recovery later. For example, you saved DAT file of a scanning process and recovered only some files from that scan result. Later, you want to recover some more files from the same drive. You can use the saved DAT file to restart recovery.

Using a scan information file saves time, since scanning of each file does not take place. All files and folders shown after scan process will be shown on loading the DAT file created for that scan. In addition, if you have performed scanning process but not saved any files then you can use the DAT file to restart recovery at some other time.

To resume recovery by using scan information file:



3.5.5. Change the Software Language

In order to use **Stellar Data Recovery – Technician** software in your preferred language, the application provides an option to select any of the desired language. Using the **Languages** button in **Advanced Settings** dialog, you can change the entire application to a different language at any time/instance without having to re-install the application.

In order to change language of the application instantly, go through the following steps:

1. Run **Stellar Data Recovery – Technician**.
2. Click **Advanced Settings** button.
3. Click **Languages** button from **Advanced Settings** window.
4. From the options displayed, select the required language.

3.6. RAID Recovery

RAID, or Redundant Array of Independent Disks is a storage device made up of multiple disks. A RAID, connected to a system, is shown as one logical disk unit in the operating system. RAID is a way of storing the same data at multiple places (hard disks) to improve data access, data safety, performance, fault tolerance, and to increase the mean time between failures.

Stellar Data Recovery – Technician software supports data recovery from three RAID levels – **RAID 0**, **RAID 5**, and **RAID 6**.

RAID Reconstruction-Main User Interface screen

RAID 0 is the first level of RAID technology that uses block-level striping without parity or mirroring and has no (or zero) redundancy. RAID 0 improves performance and storage but has no fault tolerance. Any drive failure will lead to total data loss and the chances of failure increases with an increase in the number of hard disks.

RAID Reconstruction-RAID 0 Screen

RAID 5 is another level of RAID technology, which uses distributed parity and distributed data technique. This level requires at least three hard disks and a single disk failure does not lead to total data loss.

RAID Reconstruction-RAID 5 Screen

RAID 6 level uses block-level striping with double distributed parity. This level requires a minimum of four disks and it can tolerate up to two hard disk failures. This RAID level technology is intended for high-availability systems and makes larger RAID groups more practical.

RAID Reconstruction-RAID 6 Screen

In this section, you will learn, how to...

- Build RAID
- Scan RAID Volumes


3.6.1. Build RAID When Parameters are Known

To build RAID using **Stellar Data Recovery – Technician** software, you must preferably know the disk order, start sector of RAID in each disk, stripe/block size, parity repetition/delay, and parity order. Multiple possible RAIDs are constructed according to the combination of parameter options that you provide. User has to choose from any one of them. After the RAID is rebuilt, you can perform scanning and recovery operations on the RAID volumes.




To build RAID when parameters are known:

- Run **Stellar Data Recovery – Technician** software.
- Click the '**RAID Recovery**' button in the window. The **Stellar Data Recovery – Technician– RAID Reconstruction** window is displayed. All the RAID drives and a missing drive are shown in '**Select Hard Drives to Reconstruct RAID**' section.

RAID Reconstruction main screen

- In the '**Select Hard Drives to Reconstruct RAID**' section, click on a RAID hard disk and then click . Repeat this till all the RAID disks are shown in the **Move hard drives up/down for correct disk order** section.

Select Constructed RAID screen

- In the '**Move hard drives up/down for correct disk order**' section, click on a hard disk and then click  or  to change its order. Repeat this till all the drives are in the correct order. Click the block under RAID start sector to type the starting sector.
- In the '**Select Stripe/block size**' drop-down, select a block size.
- In the '**Select Parity Order/Rotation**' drop-down, select a rotation method.
- In the '**Select Parity Repetition/Delay**' drop-down, select a delay amount.
- Click . A single RAID is shown. Select it and click the **Show Volume List** button to continue recovery. The found volume and the RAID are shown under the RAID Recovery button on the main screen.

Create Virtual RAID Drive screen

- If **Stellar Data Recovery – Technician** is not able to build a RAID and no volume is found, a **Create Virtual Drive** option is shown. You can perform raw recovery or search for lost volumes in it. Click it to create virtual drive. Virtual drive is shown in '**Select Hard Drive to Search Lost volume**' in RAID, under the RAID Recovery button on the main screen.

Reconstruct RAID/Load Constructed RAID screen

- Click the **Reconstruct RAID** button to perform construction from once again, or click **Load Constructed RAID** button to select another constructed RAID from the list of probable RAIDs.

3.6.2. Build RAID When Parameters are Unknown

To build RAID using **Stellar Data Recovery – Technician** software, the user must preferably know the disk order, start sector of RAID in each disk, stripe/block size, parity repetition/delay, and parity order. If any of the RAID parameters are not known, the user can select the possible options provided in the recovery window. Multiple possible RAIDs are constructed according to the combination of parameter options provided by the user. The user can choose one of them. After the RAID is rebuilt, user can perform a scan and recovery on the RAID volumes.




To build RAID when parameters are unknown:

- Run **Stellar Data Recovery – Technician** software.
- Click the **RAID Recovery** button in the window. The **Stellar Data Recovery – Technician – RAID Reconstruction** window is displayed.

RAID Reconstruction main screen

- In the '**Select Hard Drives to Reconstruct RAID**' section, click on a RAID hard disk and then click Repeat this till all the RAID disks are shown in the '**Move hard drives up/down for correct disk order**' section.

Select Constructed RAID screen

- In **'Move hard drives up/down for correct disk order'** section, click on a hard disk and then click  or  to change its order. Repeat this till all the drives are in the correct order. Click the block under RAID start sector to type the starting sector.
- If you don't know the starting sectors, check **'Don't know start sector of drives. Show list of probable start sectors'**. In the Select one or more probable start sectors section, select all the possible start sectors. You can also use the **Add Sector** button to add a start sector, if it is not listed.
- In **'Select Stripe/block size'** drop-down, select a block size or select **'Don't know'** option to choose probable block sizes from a list.
- If you have selected the **'Don't know'** option, a **'Select one or more block sizes:'** list is displayed. Select the possible block sizes.
- In the **'Select Parity Order/Rotation'** drop-down, select a rotation method, or select **'Don't know'** option to choose probable rotation methods from a list.
- In **'Select Parity Repetition/Delay'** drop-down, select a delay amount.
- Click  . The recovered RAID is shown.
- If you have used the **'Don't know'** option for one or more of the RAID parameters, a list of probable RAID's are constructed and shown in a list. RAID information is also shown. Select one of the RAID's according to its score and click the **Show Volume List** button.
- RAID volumes are shown on the main screen, under the **Raid Recovery** button.

Reconstruct RAID/Load Constructed RAID screen

- Click the **Reconstruct RAID** button to perform construction once again, or click **Load Constructed RAID** button to select another constructed RAID from the list of probable RAIDs.

3.6.3. Scan RAID Volumes

After you have build a RAID, RAID and all RAID volumes will be displayed in the ‘RAID Recovery’ screen. You have to scan a RAID volume to recover data in that volume. You can select only one volume at a time for scanning. Almost all the data in the files and folders will be found by performing recovery on the selected volume or removable media. FAT, NTFS and ExFAT file systems are supported by the software.

To scan RAID volumes:

- After you build RAID, RAID volumes are displayed in the ‘**Select Volume to Recover RAID Data**’ section of **Raid Recovery**.
- Select the volume to be recovered.

Reconstruct RAID/Load Constructed RAID screen

- Click **Settings** in the application tool bar and configure the settings.
- In the flying pane, click a recovery option:
 - **Scan Existing Volume:** you can recover your deleted or lost data from the hard drive or external storage media connected to the system
 - **Deep Scan:** In case, your desired file is not included in the list of files detected, you can opt for Deep Scan to perform a comprehensive scan of the selected drive or location.

Note : *The option to save scan information is not available for RAID Recovery.*

4. FAQs

Are only audio, video, documents and photos recovered by this software?

No, all the files and folders in the selected volume can be recovered.

Can I recover a specific file by help of this software?

Yes, you can right-click the file and select **Recover** button.

I have deleted a volume. Can I recover the files in it?

Yes, choose the Recover Lost Partition option in the application to find the lost or deleted volumes. Then continue with the scan option to recover data from the deleted volumes.

What is quick scan and deep scan?

Quick scan is a faster scanning option. If the files are not recovered still, then you can use deep scan. Deep scan is a bit slower but results are better than quick scan.

How much time Stellar Data Recovery – Technician will take to recover data?

The recovery time depends upon the size of the hard disk or volume. If the process is running that means that software is still scanning the deleted files and you have to wait for recovery process to complete. Once the process is complete you can save the repaired

file at any selected location.

Can I recover data from my ExFAT partition?

Yes, you can recover data from ExFAT partition. **Stellar Data Recovery – Technician** software supports NTFS, FAT, FAT16, FAT32 and ExFat file systems.

How to find only a particular file type and recover them?

You can search for a specific file in the preview window or from **File Type List** tab check the **File Types** category folders as per your choice. The files of the selected '**file types folders**' will be listed in the file list pane. Select the file(s) and click Recover. The files are saved at the selected destination.

How can I recover only deleted data?

To recover deleted data

- Scan the drive or volume from which you want to recover data.
- Once the scanning process is completed, all the scanned files can be viewed in the **Preview** window.
- From list of scanned files, select the files you want to recover and click **Recover**. Select destination to save recovered files and click **Start Saving** to start saving process.

What is create image, why do I need it?

Using the Create Image option of **Stellar Data Recovery – Technician** you can create an image of different storage devices and save them as IMG file. This IMG file can be used to resume the recovery process at a later stage.

Can the software recover only images from a removable storage device?

Yes, you can recover only photos from removable devices like pen drive, memory card etc. Select *Photos* option from **Select What to Recover** screen to search the files according to your criteria.

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