

The Disk Imager



Key Features

- ✓ Drive to Drive Imaging on a hardware registers level (Bypassing BIOS/OS)
- ✓ Stores Configuration Parameters and Map of good/bad sectors on the destination drive (allows imaging process to be interrupted at any time to be continued later)
- ✓ Supports all DMA/UDMA modes (up to 4.5 GB per minute imaging speed)
- ✓ Controls Sector Read Timeout (to skip problematic sectors without processing delays)
- ✓ Turns off Auto-Reallocation (G-list remapping) & Disables SMART operations (to pre-configure the drive for imaging)
- ✓ Real Time Data Evaluation (recognizes files of known types "on the fly" and displays the files' counters)
- ✓ Retrieves bad sectors in "Read Ignoring ECC" mode
- ✓ Customizable imaging algorithm by Event/Action definition
- ✓ Re-powers the drive when it's not responding
- ✓ Sets / Resets HPA
- ✓ Multi-Pass imaging (allows processing of different imaging algorithms in each pass)
- ✓ Ability to image the drive in Hot-Swap Mode
- ✓ Drive Express Diagnostics

ACE Data Recovery Engineering Inc. is proud to present the Disk Imager. This first product release represents nearly two years of research and development.

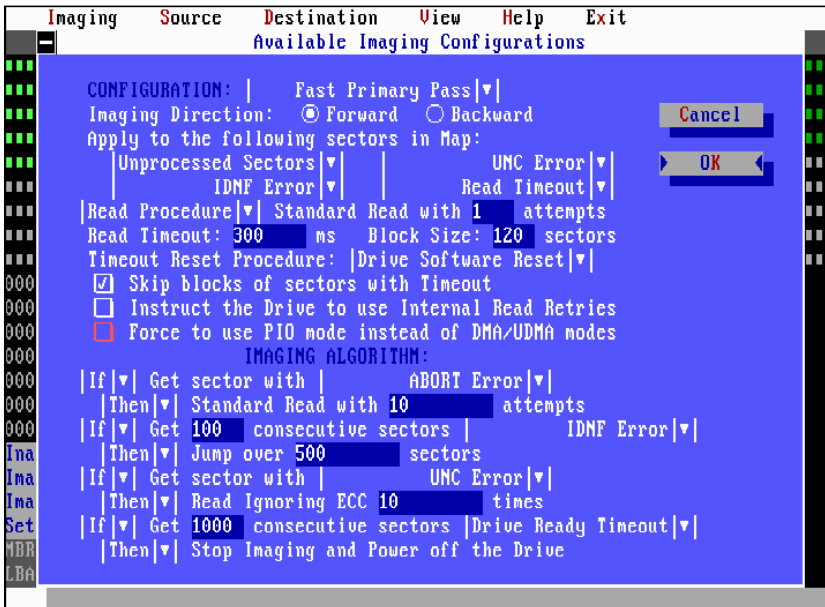
By listening to our client's needs and challenges, and combining our own extensive knowledge of Data Recovery, ACE Data Recovery Engineering Inc. has created the first truly professional, commercially available data recovery hard drive imager.

The Disk Imager goes far beyond typical drive cloning software utilities. It is specifically designed to image problematic drives that are so typically presented for data recovery. With highly configurable parameters, high speed UDMA support, read timeout control, and the ability to appropriately handle all possible sector errors, data recovery professionals finally have a disk imager that will greatly increase recovered data and exponentially improve productivity and efficiency.



Disk Imager Kit Includes:

- ✓ Disk Imager Hardware
- ✓ SATA Hard Drive Adapter
- ✓ 2.5" Hard Drive Adapter
- ✓ Modified IDE cable
- ✓ Instruction Manual
- ✓ 1 year full warranty
- ✓ One of either motherboard with NVIDIA nForce4 chipset or Adaptec ATA controller card
- ✓ Power cables



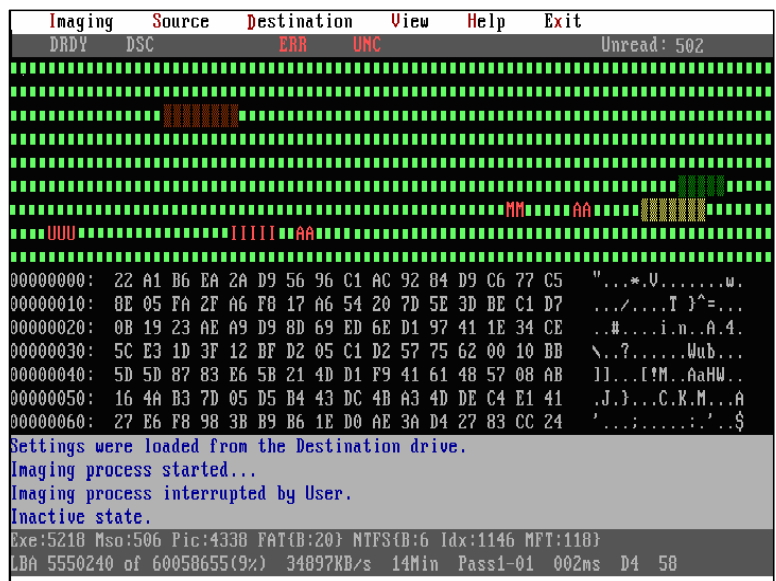
The Disk Imager gives the imaging technician the ability to create simple or complex multi-pass imaging algorithms. By specifying which sectors to process in each different pass, and how those sectors should be processed, the user assumes total control of the imaging process.

The Disk Imager also has multiple Event/Action ("If"/"Then") definitions for each separate imaging pass that allow the user to define how the imager will respond to various errors and events.

As we can see in the image to the left, the imager has the ability to respond to different sector errors as well as hard drive errors. This means that the

technician can comfortably leave the imager to process its tasks unattended by programming the imager to shut down the hard drive should certain events or errors occur.

The image on the right shows the main imaging screen that is displayed during the imaging process. This map identifies every sector that the imager reads, how it was read, any errors that occurred, and whether or not sectors were skipped and how the drive was reset. This entire map is stored on the destination drive so that multi-pass imaging can be done to target specific errors and sectors and so that the imaging process can be stopped and continued without having to start over. Additionally, we can see a hex representation of each sector's data as it is being read by the imager. Below the log, there is also a count of the most common file types that have been imaged thus far in the process. This allows the user to know "on the fly" that actual data is being imaged from the source drive. At the bottom of the main imaging window a progress count is kept along with other statistical information.



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