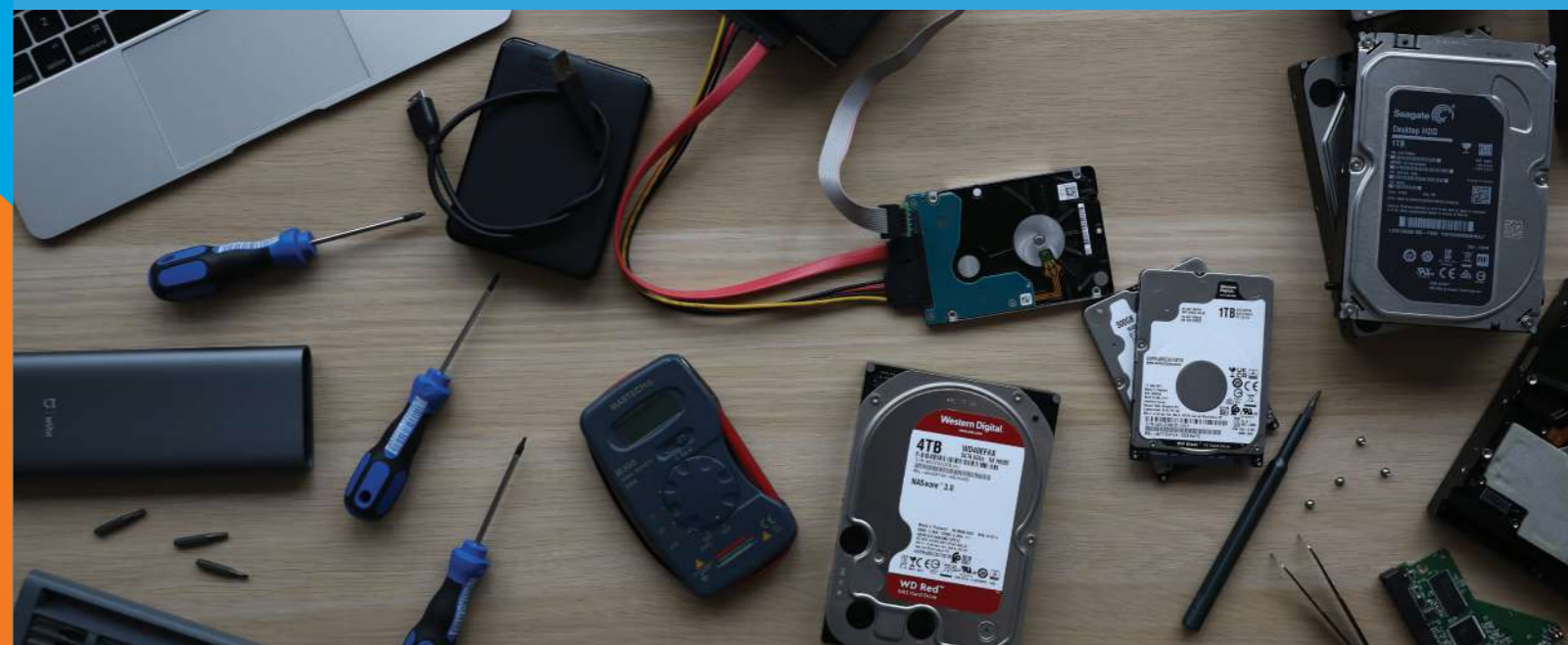


PC-3000 – the ultimate standard for all areas of data recovery:



Top
Data Recovery
Solutions

PC-3000



SATA/PATA/USB
HDD



SAS/SCSI HDD



SATA/PCIe SSD



RAID



NAND Flash
devices



Mobile devices

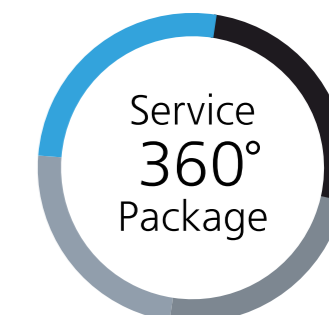
— Every serious data recovery engineer uses PC-3000!

ACE Lab, being the leader of the industry, is always the first to apply all of the latest innovations. The PC-3000 Tools deliver breakthrough technologies, up-to-date methods, and techniques for data recovery and drive repair. Only with ACE Lab universal data recovery solutions can you recover maximum data from ALL storage devices, solving a variety of cases from simple to the most complex ones. For the convenience of our users, the software is available in four languages: English, Japanese, Chinese, and Korean.

PC-3000 is more than just a set of essential tools:

You may be certain that with the PC-3000 you'll get the 360-degree approach to your needs:

- ▶ Constant development and perfection of the hardware
- ▶ Regular software updates with many useful features
- ▶ Comprehensive technical support to help you with especially difficult cases
- ▶ A variety of training opportunities to master your skills in data recovery



Find PC-3000 that will suit your needs

Product name	Storage media type					RAID	NAND Flash devices	Monoliths	Mobile devices
	SATA/PATA/USB HDD	SATA SSD	PCIe SSD	SAS HDD					
PC-3000 Portable PRO System	✓				✓ <i>SAS adapter required</i>		✓ <i>for logical issues</i>	✓ <i>for SD/mSD logical issues</i>	
PC-3000 Portable PRO SSD System	✓	✓	✓		✓ <i>SAS adapter required</i>		✓ <i>for logical issues</i>	✓ <i>for SD/mSD logical issues</i>	
PC-3000 Portable PRO RAID System	✓				✓ <i>SAS adapter required</i>	✓	✓ <i>for logical issues</i>	✓ <i>for SD/mSD logical issues</i>	
PC-3000 Portable PRO Ultimate System	✓	✓	✓		✓ <i>SAS adapter required</i>	✓	✓ <i>for logical issues</i>	✓ <i>for SD/mSD logical issues</i>	
PC-3000 Portable PRO All-In-One	✓	✓	✓		✓	✓	✓ <i>for logical issues</i>	✓ <i>for SD/mSD logical issues</i>	
PC-3000 Express System	✓								
PC-3000 Express SSD System	✓	✓							
PC-3000 Express RAID System	✓					✓			
PC-3000 Express Ultimate System	✓	✓				✓			
PC-3000 UDMA System	✓								
PC-3000 UDMA SSD System	✓	✓							
PC-3000 UDMA RAID System	✓					✓			
PC-3000 UDMA Ultimate System	✓	✓				✓			
PC-3000 SAS System					✓				
PC-3000 SAS RAID System					✓	✓			
PC-3000 Flash Basic Package							✓	✓	
PC-3000 Flash All-in-One Package							✓	✓ <i>more convenient</i>	
PC-3000 Mobile PRO <i>only for LEA</i>									✓
PC-3000 Complete Bundle	✓	✓	✓		✓	✓	✓	✓	
PC-3000 Standard Forensic System <i>only for LEA</i>	✓	✓	✓		✓	✓	✓ <i>for logical issues</i>	✓ <i>for SD/mSD logical issues</i>	✓
PC-3000 Ultimate Forensic System <i>only for LEA</i>	✓	✓	✓		✓	✓	✓	✓	✓



PC-3000 Portable PRO Systems

Universal for any drives
EVEN MORE POWERFUL NOW!



4 diagnostics ports to recover data

Connect your storage media directly via the PC-3000 Portable PRO source ports: USB, SATA, PATA, PCIe (NVMe/AHCI, PCIe x16, Apple Macbook, U.2, Intel Optane, CFexpress).

Use 3 universal PCIe/SATA ports and 1 USB HOST port at the same time

BREAKTHROUGH: Now You Can Work with 3 PCIe NVMe at Once!

The PC-3000 Portable PRO Kit*:



Top tool for any data recovery challenge

Years of research and development in Data Recovery tools production have helped ACE Lab engineers to accumulate all knowledge and TOP data recovery technologies in one universal device – the PC-3000 Portable PRO, the world's only tool for extracting all-device data whatever the damage is.

Diagnostic ports with write protection



Diagnostic ports with write protection

PC-3000 Portable PRO allows recovering data and digital evidence from:

- ▶ SATA HDD
- ▶ PATA HDD
- ▶ SAS HDD
- ▶ USB HDD
- ▶ RAID
- ▶ PCIe/NVMe SSD
- ▶ M.2 NVMe/AHCI
- ▶ Apple SSD
- ▶ PCIe x16 SSD
- ▶ Intel Optane SSD
- ▶ U.2 SSD
- ▶ CFexpress cards SSD
- ▶ SATA SSD
- ▶ USB Flash
- ▶ mSD/SD cards

1.	PC-3000 Portable PRO device	1 pc.	11.	SATA Port Protector Adapter	1 pc.
2.	PC USB TERMINAL 5 adapter	1 pc.	12.	2-in-1 SD/microSD Card Reader adapter	1 pc.
3.	SATA-micro SATA adapter	1 pc.	13.	USB 2.0 cable Type C	1 pc.
4.	PC-SAMSUNG adapter	1 pc.	14.	USB 3.1 cable	1 pc.
5.	PC-SEAG.SATA adapter	1 pc.	15.	SATA/POWER cable	3 pcs.
6.	PC-SEAGATE adapter	1 pc.	16.	IDC10 (30 cm) cable	1 pc.
7.	PC-TOSH.SATA adapter	1 pc.	17.	Power supply unit	1 pc.
8.	PC-WD 3.5" adapter	1 pc.	18.	Stylus	1 pc.
9.	PC-WD 2.5" adapter	1 pc.	19.	PC-3000 Portable PRO software, resource database**	1 pc.
10.	M.2 PCIe NVMe/AHCI SSD & M.2 SATA SSD adapter	2 pcs.	20.	User manual***	1 pc.

Handle any type of storage media using just one tool!

* This is the basic PC-3000 Portable PRO delivery kit. All-in-One kit containing more adapters can be purchased optionally.

** Available in the Technical Support Portal.

*** Available electronically.



Superb for on-site and in-lab data recovery

The most multifunctional tool



Make your own workstation out of one device

Use the PC-3000 Portable PRO to quickly and easily diagnose practically any type of storage media devices, find the reason of damage, make images and recover as much data as possible. Two active licenses for a desktop computer/ laptop along with a Standalone Mode to work without a host computer allow you to arrange your workstation wherever you need it!

Connected drives are isolated from possible OS changes

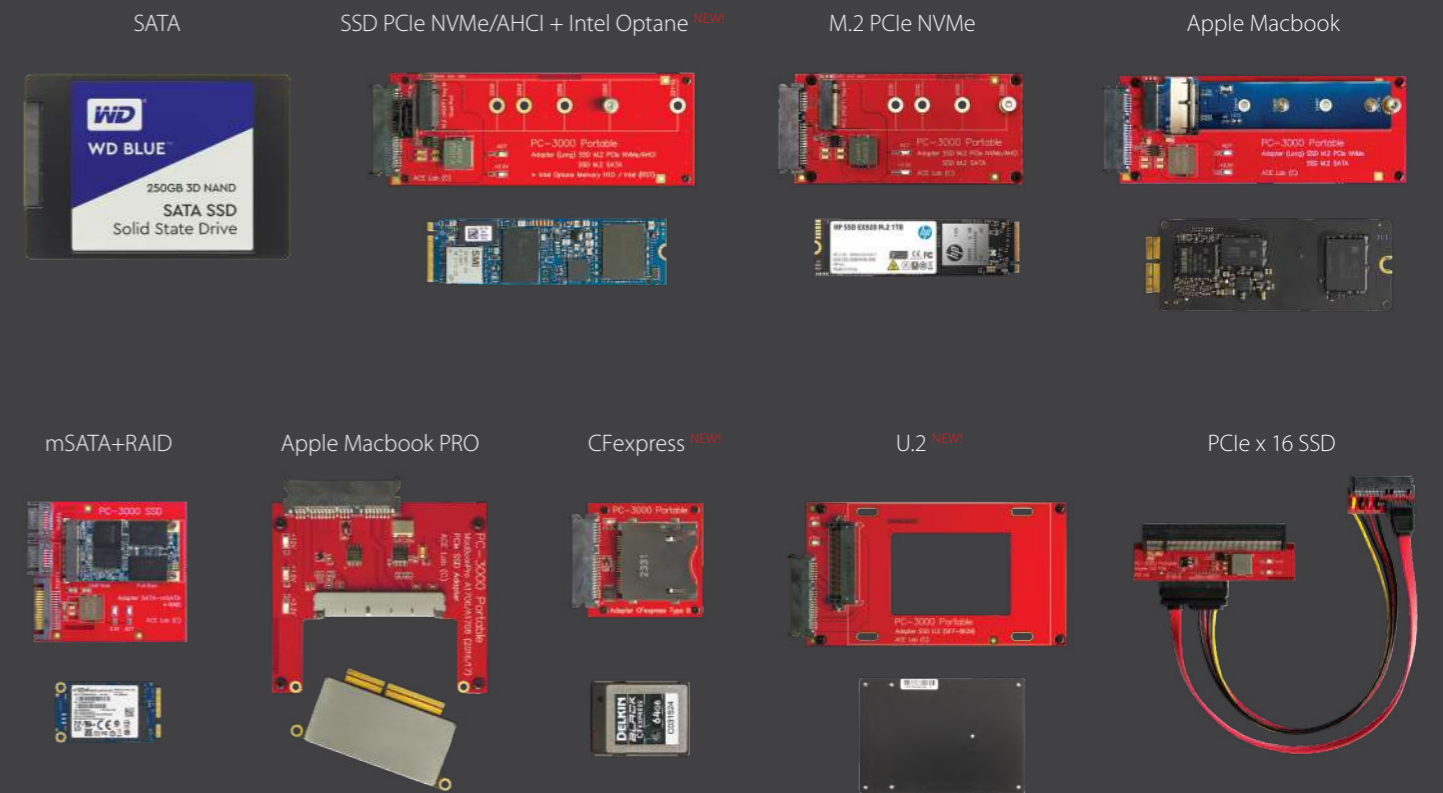


Hardware Write Protection

Logging and reports generation



SSD



HDD



Flash



PC-3000 Portable PRO handles any drives!!



What's new in PRO version?

USB 3.1
even faster,
even more reliable



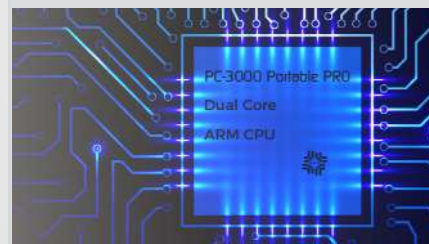
TOUCH SCREEN
Increased visible area



NEW GUI
in the Standalone mode



**INCREASED RAM
AND ROM SIZE**



**OSCILLOSCOPE
FUNCTION**



PCIe SUPPORT
for all diagnostic ports



Data Recovery is Easier and Faster Now

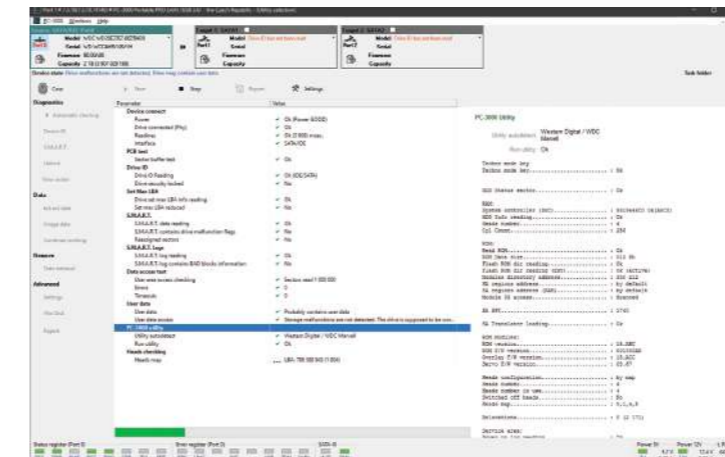
Independent STANDALONE MODE

To diagnose a drive quickly without a host PC and create an image.

- ▶ Hash-sum calculation at reading or copying data
- ▶ S.M.A.R.T. View for connected storage media
- ▶ Sector View for visual data analysis stored on a plugged drive

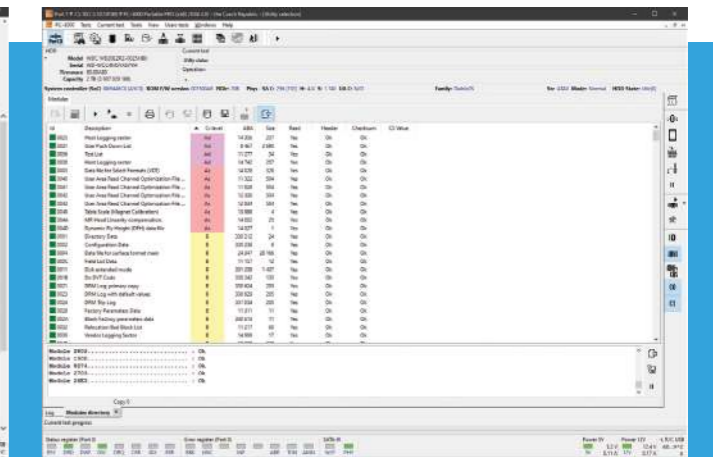
Convenient EASY MODE

To solve simple cases in a few clicks.



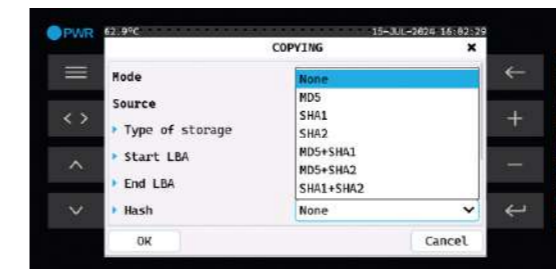
High-end FULL-FEATURED MODE

for recovering as many cases of various complexity as possible.

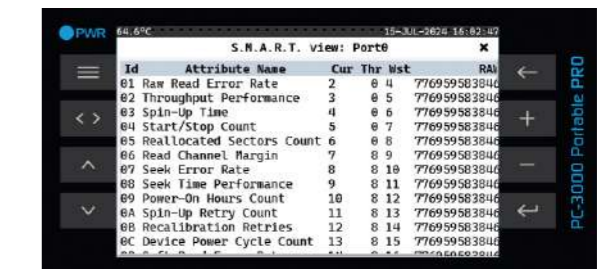


Standalone mode for onsite recovery

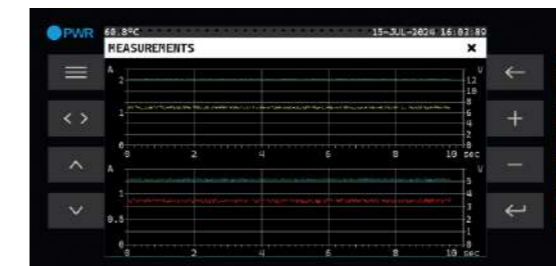
▶ Hash-sum calculations when copying and reading data



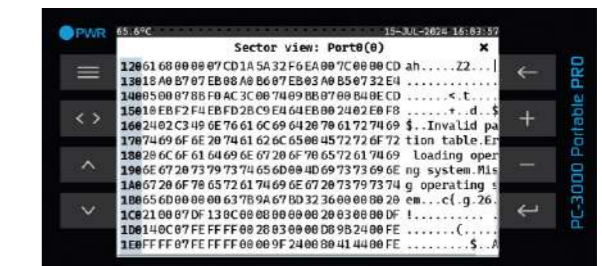
▶ Drive settings SMART view



▶ Oscilloscope function

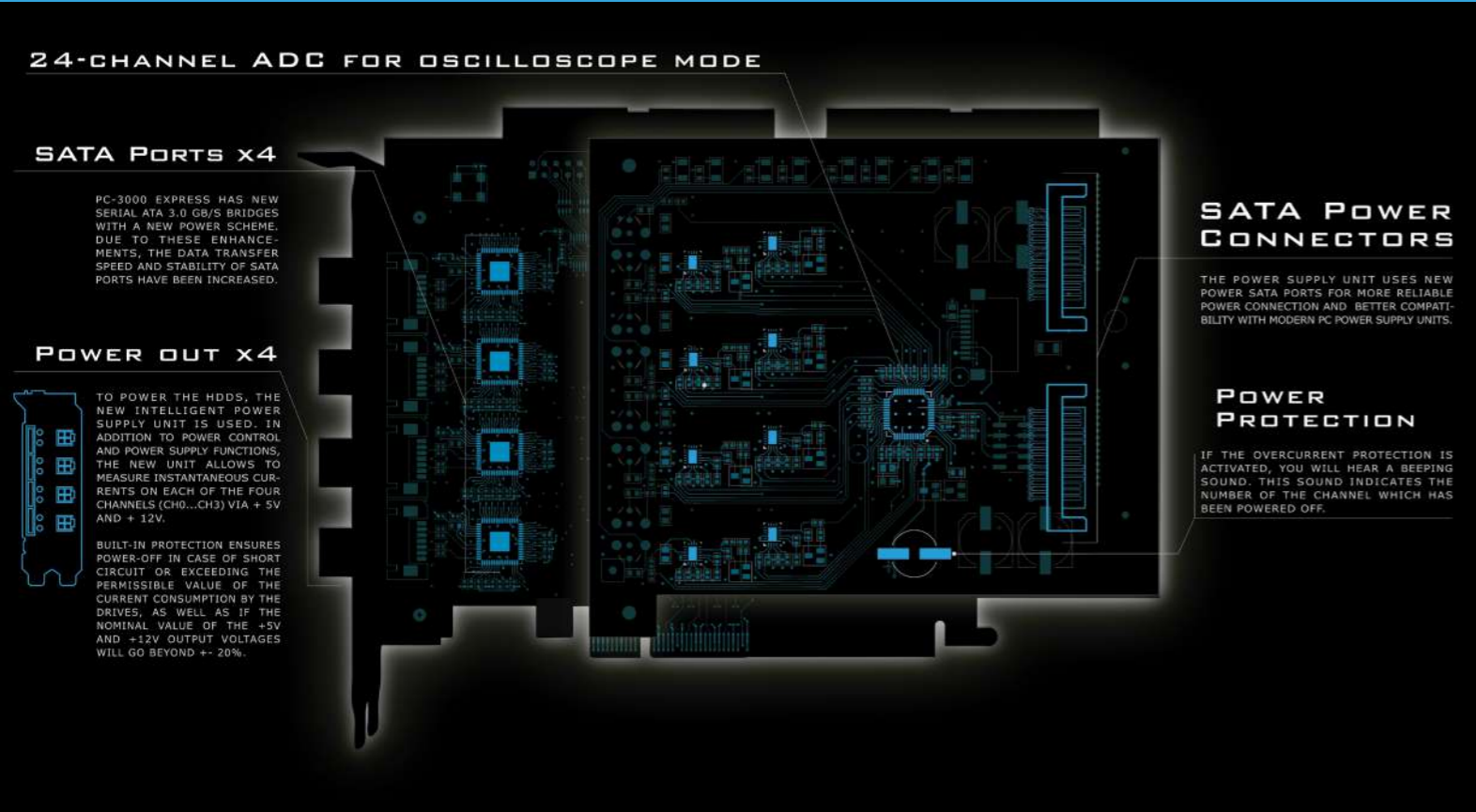


▶ Sector view





PC-3000 Express Systems



Equally fast speed for all four ATA connected devices

The PC-3000 Express Kit:



Most powerful tool for HDD and RAID

**6-port*
tester-board** + **4 SATA
ports
with speed up to
150 MB/s** + **2 PATA
ports
with speed up to
133 MB/s**

The PC-3000 Express as part of various PC-3000 Express systems allows recovering data and digital evidence from SATA HDD, PATA HDD, SATA SSD, RAID.

Work with 4 damaged HDD/SSD simultaneously.

Key Features:

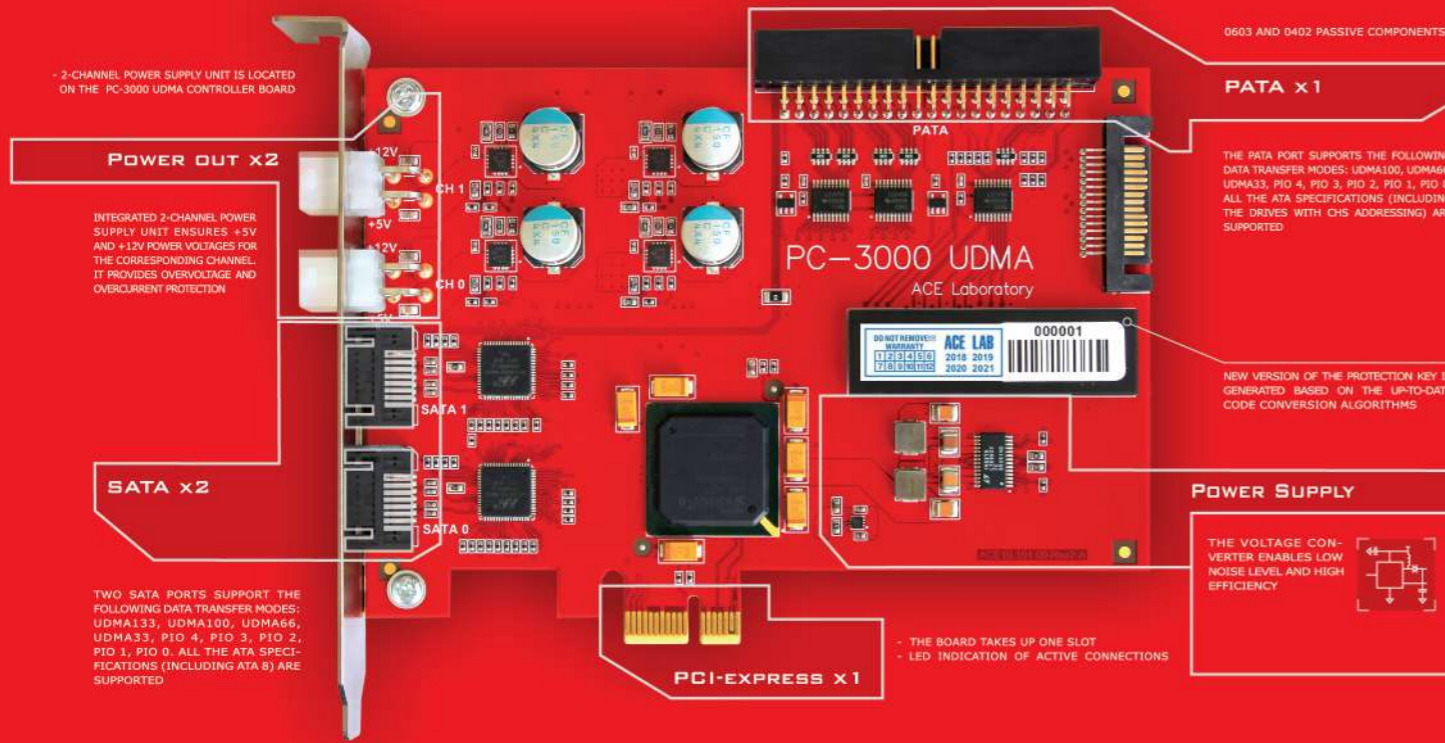
- ▶ If you specialize in the HDD data recovery, the PC-3000 Express systems are the world's best, time-trusted tools for any types of HDD recovery
- ▶ Of all the PC-3000 systems, the PC-3000 Express systems are one of the best for SATA RAID recovery. You can work with 4 damaged HDDs in a RAID at the same time and any number of drives in a RAID connected in a standard way
- ▶ If you have an intensive flow of RAID cases, the best solution is the PC-3000 Express RAID System + the PC-3000 SAS System or the PC-3000 Express System + the PC-3000 SAS RAID System. You have 8 diagnostic ports to work with 8 HDD simultaneously and you can handle both damaged SATA and SAS drives in a RAID
- ▶ Efficient HDD diagnostics due to the oscilloscope functions of the Intelligent Power Supply Unit
- ▶ The majority of HDDs are fully supported in a techno mode for deep HDD firmware recovery!

1. PC-3000 Express controller	1 pc.	14. PC-WD 3.5" adapter	1 pc.
2. PC-USB PWR adapter	1 pc.	15. PC-WD 2.5" adapter	1 pc.
3. PC USB TERMINAL 3 adapter	2 pcs.	16. ATCS, ATDA probe unlock	1 pc.
4. PC-2" adapter	1 pc.	17. USB 2.0 cable	2 pcs.
5. SATA-micro SATA adapter	1 pc.	18. SATA RAID edition (100 cm) cable	4 pcs.
6. MX-SAFE adapter	1 pc.	19. UDMA80 (80 cm) flat cable	2 pcs.
7. PATA-SATA (15 cm) power adapter	2 pcs.	20. IDC10 (30 cm) cable	2 pcs.
8. PC-FUJ.SATA adapter	1 pc.	21. MX-SAFE power cable	1 pc.
9. PC-QUANTUM adapter	1 pc.	22. SATA HDD (100 cm) power cable	2 pcs.
10. PC-SAMSUNG adapter	2 pcs.	23. PATA HDD (85 cm) power cable	2 pcs.
11. PC-SEAG.SATA adapter	2 pcs.	24. PC-3000 Express software, resource database**	1 pc.
12. PC-SEAGATE adapter	2 pcs.	25. User manual	1 pc.
13. PC-TOSH.SATA adapter	2 pcs.		

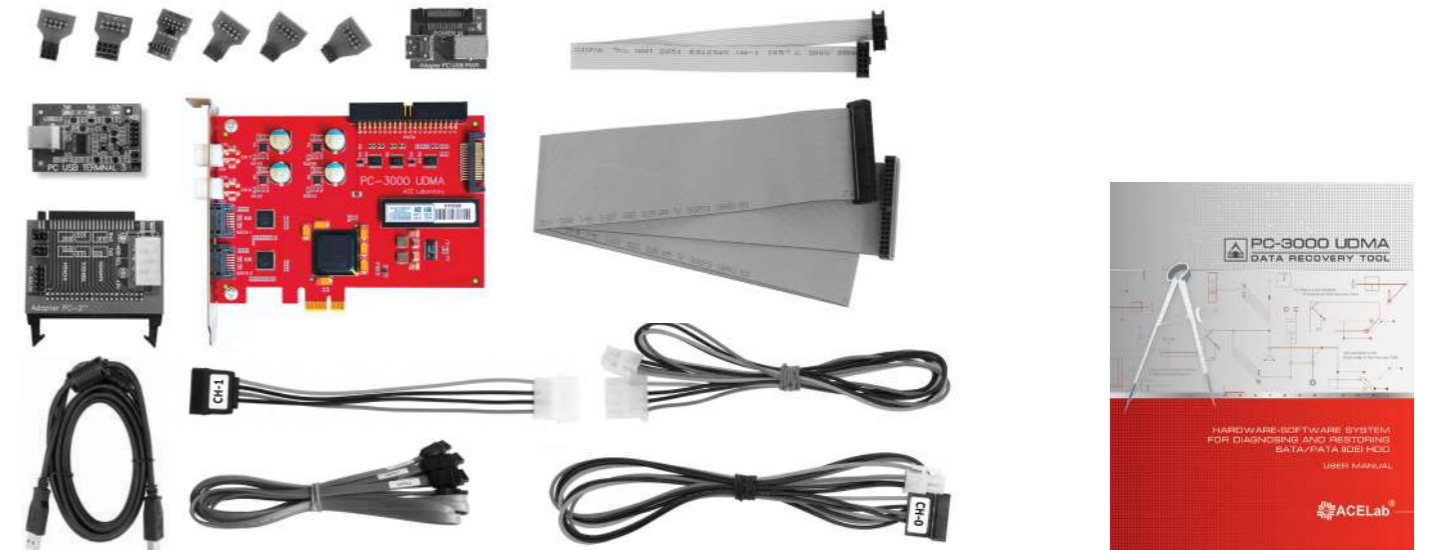
* SATA0 and SATA1 are the primary ports, SATA2 and SATA3 ports are switchable with the PATA ports (PATA0 and PATA1).

** Available in the Technical Support Portal.

PC-3000 UDMA Systems



The PC-3000 UDMA Kit:



Optimal for start-ups and daily data recovery

**3-port*
tester-board** + **2 SATA** ports with speed up to **150 MB/s** + **1 PATA** port with speed up to **133 MB/s**

The PC-3000 UDMA as part of various PC-3000 UDMA systems allows recovering data and digital evidence from SATA HDD, PATA HDD, SATA SSD, RAID.

Work with 2 damaged HDD/SSD simultaneously.

Key Features:

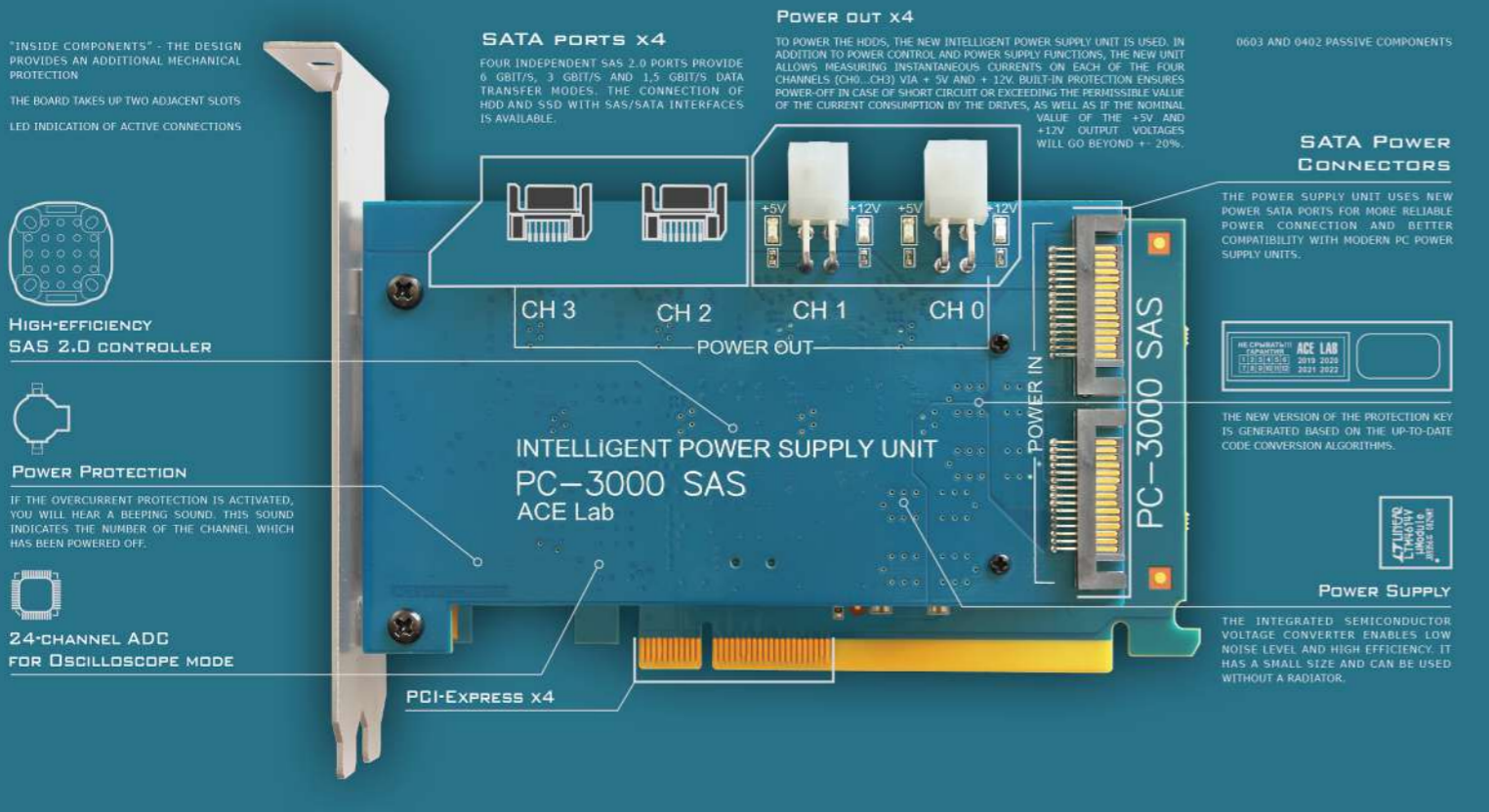
- ▶ The best cost-effective way to get started with the PC-3000 technology, having the full PC-3000 techno mode functionality
- ▶ You can upgrade your basic PC-3000 UDMA workstation with SSD and RAID add-ons later
- ▶ The "main workhorse" for data recovery companies, as it combines high efficiency and reasonable price
- ▶ The PC-3000 UDMA systems perfectly fit for standard, day-to-day tasks
- ▶ The majority of HDDs are fully supported in a techno mode for deep HDD firmware recovery!

1. PC-3000 UDMA controller	1 pc.	11. PC-WD 2.5" adapter	1 pc.
2. PC-USB PWR adapter	1 pc.	12. USB 2.0 cable	1 pc.
3. PC USB TERMINAL 3 adapter	1 pc.	13. SATA RAID edition (100 cm) cable	2 pcs.
4. PC-2" adapter	1 pc.	14. UDMA80 (80 cm) flat cable	1 pc.
5. PATA-SATA (15 cm) power adapter	1 pc.	15. IDC10 (30 cm) cable	1 pc.
6. PC-SAMSUNG adapter	1 pc.	16. SATA HDD (100 cm) power cable	1 pc.
7. PC-SEAG.SATA adapter	1 pc.	17. PATA HDD (85 cm) power cable	1 pc.
8. PC-SEAGATE adapter	1 pc.	18. PC-3000 UDMA software, resource database**	1 pc.
9. PC-TOSH.SATA adapter	1 pc.	19. User manual	1 pc.
10. PC-WD 3.5" adapter	1 pc.		

* SATA0 is the primary port, SATA1 is switchable with the PATA port (PATA0).

** Available in the Technical Support Portal.

PC-3000 SAS 6 Gbit/s Systems



— Most efficient tool for SAS data recovery

— The PC-3000 SAS Kit:

4-port tester-board + **4 SAS ports with speed up to 600 MB/s** + **Fast imaging of healthy SAS/SCSI & SATA HDD/SSD drives**

The PC-3000 SAS as part of various PC-3000 SAS systems allows recovering data and digital evidence from SAS HDD, SCSI HDD, RAID.

Work with 4 damaged HDD simultaneously.

Key Features:

- ▶ Unique solution to work with firmware on SAS HDD drives
- ▶ More efficient diagnostics and analysis of the drives due to the oscilloscope functions of the Intelligent Power Supply Unit
- ▶ The ability for solving issues with servers and storage systems based on SAS/SCSI drives
- ▶ The PC-3000 SAS 6 Gbit/s is a must-have solution for companies that recover data from SAS and want to do it in the shortest time possible with the most efficient tools and techniques available



1.	PC-3000 SAS 6Gbit/s controller	1 pc.
2.	SAS SFF-8482/SATA/Molex (100 cm) cable	4 pc.
3.	HDD SCSI (50 cm) power cable	4 pc.
4.	PC-3000 SAS software, resource database*	1 pc.
5.	User manual	1 pc.

* Available in the Technical Support Portal.



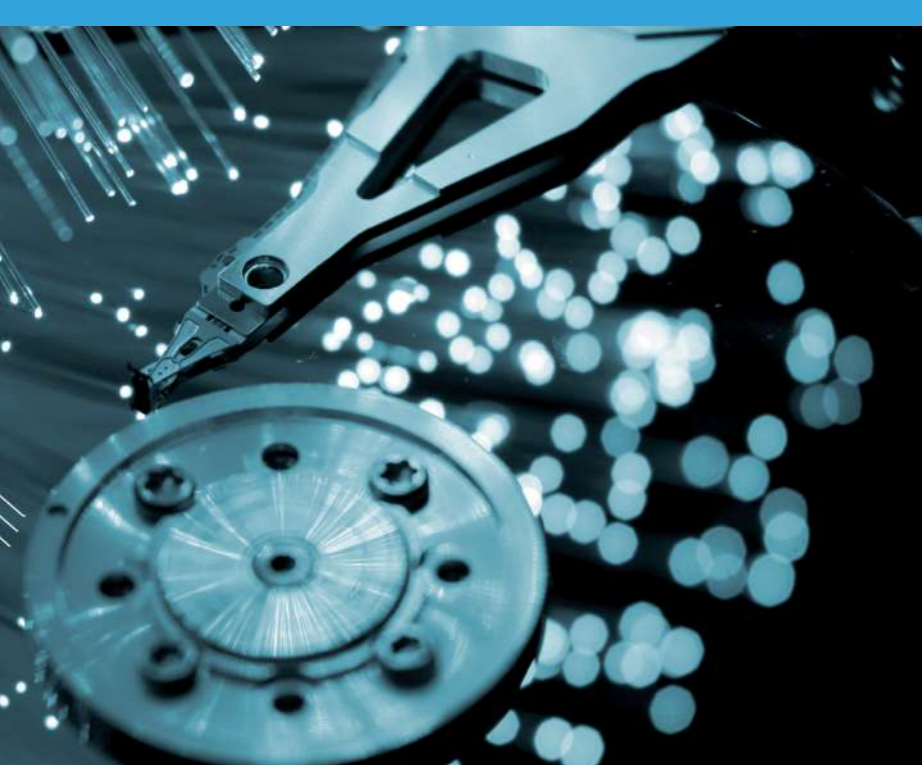
Data Recovery from HDD

```

0x0000: 46 49 54 20 20 20 20 20
0x0010: 41 30 09 00 9D 00 10 00
0x0020: B3 00 42 4F 4F 54 53 45
0x0030: 02 00 46 49 54 20 23 20
0x0040: 04 00 4D 4 9 53 54 20
0x0050: 00 00 46 53 49 20 20 20
0x0060: 9B 00 53 56 5F 54 42 4C
0x0070: B4 00 52 52 30 5F 54 42
0x0080: B5 00 52 45 53 4F 5F 54
0x0090: 68 00 46 44 54 5F 54 42
0x00A0: 0C 00 43 48 4E 5F 54 42
0x00B0: 06 00 43 4F 4E 46 49 47

```

DATA EXTRACTOR
THE BEST... EVER



The only tool to get maximum data at:

Physical Damages

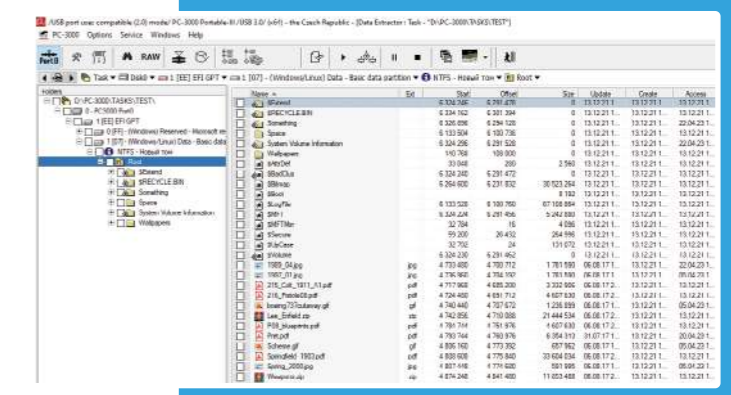
- ▶ Not detected in the OS/BIOS
- ▶ Damaged HDD heads
- ▶ Firmware corruption of HDD/SSD
- ▶ BSY state of HDD/SSD
- ▶ HDD/SSD password protection
- ▶ Damaged PCB

Logical Damages

- ▶ Deleted Files/Folders
- ▶ Formatted partitions
- ▶ Encrypted partitions
- ▶ Damaged File System
- ▶ Unknown RAID configuration
- ▶ Unstable reading of bad sectors

Firmware Issues

- ▶ Corrupted Translator
- ▶ SMART Issues
- ▶ Password Locked Issues
- ▶ Self-Encrypted Drives
- ▶ ROM Issues
- ▶ MC corruption (Seagate)
- ▶ 2nd level Translator damage (WD SMR)

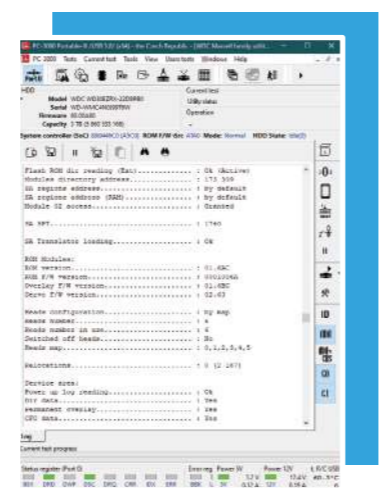
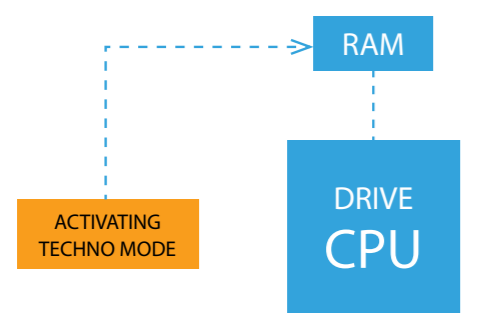


Recover most data from HDD with PC-3000 Systems

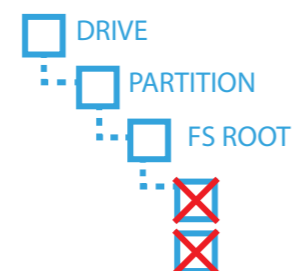
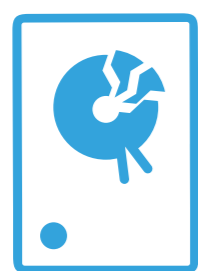
Within all types of the PC-3000 Portable III/PRO/Express/UDMA/SAS systems there are unique science-based proprietary technologies known as the Data Extractor software that allow to recover data from practically all types of physical and logical HDD issues.

Unique PC-3000 technology of low-level access to storage media

Recover data and evidence while all imagers and other tools fail!



Recover data from physically and logically damaged storage devices



Extended functionality for working with damaged HDD

- ▶ Reading HDD in technological mode
- ▶ Reading by head map
- ▶ Work with both old and new HDD including the latest modifications of WD and Seagate SMR drives
- ▶ HDD Trim bypassing
- ▶ Possibility to manage Seagate Media Cache
- ▶ Full support of the latest Seagate and WD families
- ▶ Reading mode selection (UDMA 133/100/66/33, PIO 4/3/2/1/0)
- ▶ Read forward and backward
- ▶ Read ahead (cache function) disabling
- ▶ Autorelocation disabling
- ▶ Reading with hardware and software retries
- ▶ Reading with ignoring ECC
- ▶ Power supply control
- ▶ Software and hardware resets
- ▶ Virtual translator mode for recovering data from HDDs with corrupted dynamic translators
- ▶ Flexible map operation functionality (separate map building for heads)

Wide range of supported File Systems

FAT, exFAT, NTFS, ReFS, HFS+, APFS, EXT2/3/4, XFS, F2FS, ReiserFS, BtrFS, VMFS, UFS1/2, ZFS, DHF4.1, WFS0.x (Digital Video Recorder).

Data recovery from virtual drives

flat, vmdk, vhd, vhdx, dmg.

Data recovery from encrypted partitions

FileVault, BitLocker, TrueCrypt.



Data Recovery from RAID



— The easiest, fastest and smartest systems to recover data from RAID

Coming with the PC-3000 Portable III/PRO/Express/UDMA/SAS systems, the RAID Add-on enables you to recover data from all types of RAID from the easiest cases to the most complex ones.

Assemble most of RAID configurations that are possible

Frequently it is not possible to use the original RAID controller, it means you need to emulate it. The PC-3000 RAID systems help you to assemble all popular RAID types:

- ▶ 0 (Stripe), 1 (Mirror), 1E Offset and Adjacent, JBOD, 4, 5, 5E, 5EE, 6 and 6-Adaptec, 10, 50, 60, WSS (Windows Storage Spaces), ZFS RAID-Z, Btrfs RAID, Apple Fusion Drive (HFS+, APFS), Intel SRT (NV Cache, Optane)
- ▶ custom RAID configurations based on graphical representation

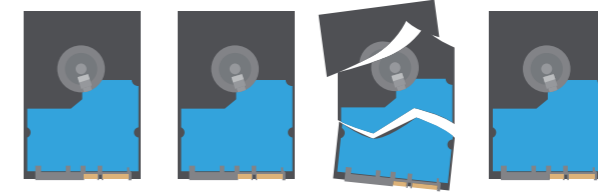


Assemble a RAID with no restrictions on the types of members:

- ▶ damaged drives connected to diagnostic ports
- ▶ storage devices connected to your PC
- ▶ image files
- ▶ previously created virtual RAID types

UNIQUE! Recover data even from RAID with physically damaged HDDs

Experience unparalleled data recovery potential through the seamless integration of the PC-3000 technology and RAID functionality, allowing you to retrieve the maximum amount of data.



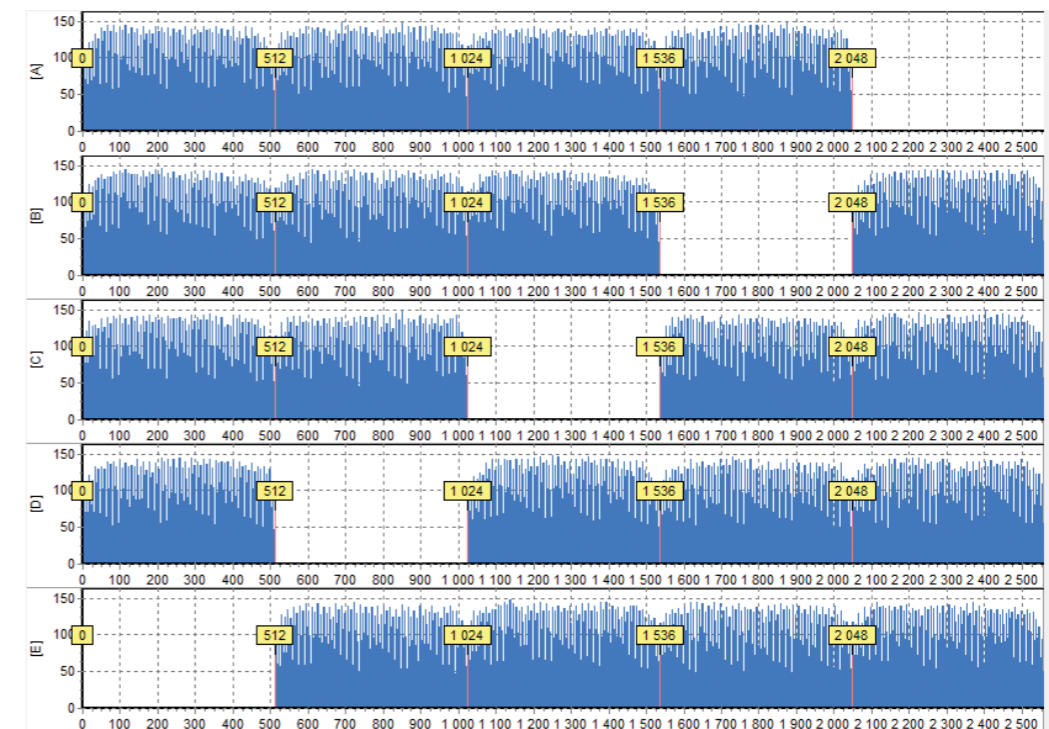
Recovering Data from RAID with Logical Problems

When working with the PC-3000 RAID systems, you'll successfully overcome logical issues on RAID such as lost partitions, deleted files, damaged file systems, encrypted storage and more. The PC-3000 RAID systems are equipped with a comprehensive suite of logical data recovery features to ensure that you can recover most of the most valuable data.

Detect the RAID configuration easily

Detecting RAID configurations can be a serious challenge, especially when the RAID parameters are hard to reach. That's where our RAID systems excel:

- ▶ Automatic configuration detection via RAID metadata for popular NAS storages and software arrays
- ▶ Automatic configuration detection via user data
- ▶ Semiautomatic RAID configuration detection modes to efficiently solve a variety of RAID cases, from the simplest to the most complex ones



Robust modes to check the RAID configuration

Ensure your RAID configuration is correct:

- ▶ RAID parity validation
- ▶ file system and user data validation
- ▶ reliable techniques for detection of outdated RAID members

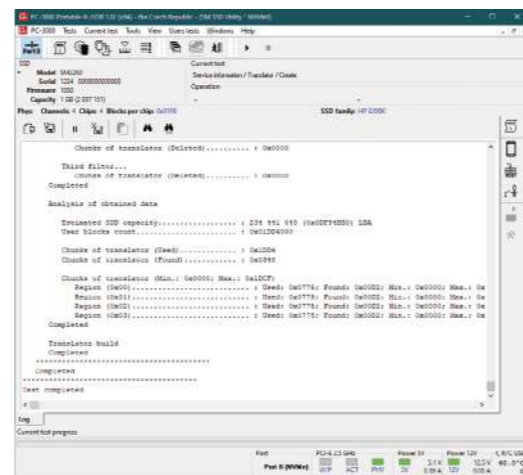


Data Recovery from SSD



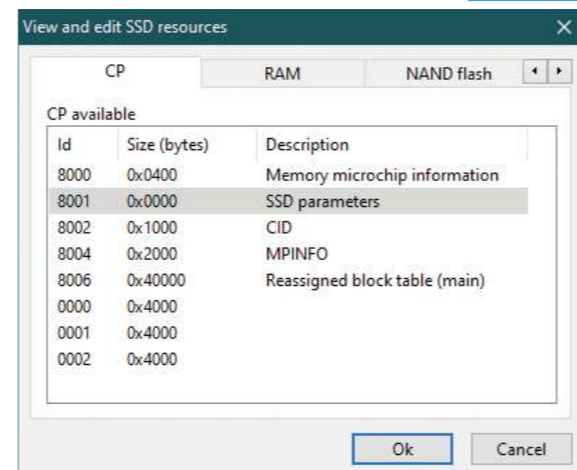
Unique solution for recovering SSD in techno mode

The PC-3000 SSD Software is a professional product intended for restoring SSDs and recovering data from them. You can use the PC-3000 SSD together with the systems based on the PC-3000 Portable III/PRO/Express/UDMA products.



The only product to work with damaged PCIe

- ▶ Diagnose SATA/PCIe SSD in the technological mode
- ▶ View the logs of hidden defects (P-page, G-page)
- ▶ Reset the logs and S.M.A.R.T. parameters
- ▶ Search for the damaged memory chips
- ▶ Provide direct access to the content of memory chips so that you do not need to unsolder the chips
- ▶ SSD Trim bypassing
- ▶ Emulate the translator operation in order to get access to user data
- ▶ Load the microcode into the drives RAM
- ▶ Verify and restore the SSD service information
- ▶ View the password and reset the password that was earlier set on the SSD
- ▶ Turn off background processes in the SSD to prevent data damage
- ▶ Handle logical issues



PC-3000 SSD Add-on Options:

	PC-3000 SSD	PC-3000 SSD Extended
Compatibility with the PC-3000 hardware-software systems	PC-3000 Express, PC-3000 UDMA	PC-3000 Portable III, PC-3000 Portable PRO
Supported manufacturers:	A-DATA, AMD, Apacer, Corsair, Crucial, DEXP, Foxline, G.Skill, Gigabyte, GoodRam, HP, Intel, KingDian, Kingspec, Kingston, Kioxia, Lenovo, Lexar, Lite-On, Micron, OCZ, Patriot, Plextor, PNY, QUMO, RevuAhn, RunCore, Samsung, SanDisk, Seagate, Silicon Power, Smartbuy, TeamGroup, Toshiba, Transcend, WesternDigital etc. More manufacturers are added with the updates.	
Supported interfaces:		
SATA	✓	✓
M.2 SATA*	✓	✓
mSATA*	✓	✓
AHCI*		✓
NVMe*		✓
M.2 PCIe*		✓
PCIe x16*		✓
Apple Macbook*		✓
Intel Optane*		✓
CFexpress*		✓
U.2*		✓
Apple Macbook PRO A1706/A1708*		✓

*Appropriate adapter from ACE Lab is required.

Breakthrough: PCIe SSD Support in the PC-3000 Portable PRO

M.2 PCIe NVMe/AHCI SSD & M.2 SATA SSD adapter



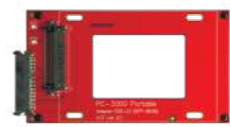
Macbook Pro A1706/A1708 adapter (temporarily unavailable)



PCIe NVMe/AHCI Adapter for Apple Macbook SSD



SSD PCIe U.2 Adapter



PCIe x16 SSD Adapter



SSD PCIe NVMe/AHCI + Intel Optane Adapter





PC-3000 Flash



TSOP-48
LGA/TLGA-52
BGA-152
MULTIBOARD
SPIDER BOARD
...

PC-3000 Flash Basic Package



1. PC-3000 Flash Reader	1 pc.	7. LGA-52/TSOP-48 Module	1 pc.
2. TSOP-48 adapter	1 pc.	8. BGA-152/VBGA-100 Module	1 pc.
3. LGA/TLGA-52/60 (14x18) adapter	1 pc.	9. USB 2.0 Cable	1 pc.
4. BGA-152/132 adapter	1 pc.	10. PC-3000 Flash software, resource database*	1 pc.
5. Multiboard Adapter	1 pc.	11. User manual	1 pc.
6. Monolith Module	2 pc.		

Best time-trusted tool for classic NAND-based storage devices

Using advanced chip-off methods, the PC-3000 Flash perfectly fits for successful data recovery and forensics investigations even with damaged NAND-based devices.

A combination of reliable hardware and fast and efficient software along with a regularly updated resource database makes the PC-3000 Flash highly-demanded among data recovery engineers and digital forensics experts and helps to solve NAND data recovery cases of various complexity.

Supported storage devices: USB, mSD/SD, Memory Stick (MS), xD, MMC, CF, Voice Recorder including Monolithic Drives.

Key Features:

- ▶ Over 8 300 «one-click» solutions in the PC-3000 Flash Solution center to recover data in 5 minutes
- ▶ The most effective methods to fix the bit errors in NAND flash memory chips, including the various types of hardware ReadRetries
- ▶ Weekly updated Online Databases (XOR, Dynamic XOR, ECC, Page Format, ReadRetry Tables) to get the latest resources for the present-day flash drives
- ▶ Personal help to extract unsupported XOR, ECC and unknown chip ID
- ▶ The most universal and affordable technologies and an extensive Monolith Database to recover data from a great variety of monoliths
- ▶ The biggest team of highly qualified Technical Support engineers ready to help with any Flash recovery case
- ▶ A huge number of articles at blog.ancelab.eu.com and a separate section at forum.ancelab.eu.com to find the solutions to your specific cases

PC-3000 Flash All-in-One Package



1. PC-3000 Flash Reader	1 pc.	8. LGA-52/TSOP-48 Module	1 pc.
2. Spider Board adapter (temporarily unavailable)	1 pc.	9. BGA-152/VBGA-100 Module	1 pc.
3. TSOP-48 adapter	1 pc.	10. BGA-152/132 adapter	1 pc.
4. LGA/TLGA-52/60 (14x18) adapter	1 pc.	11. USB 2.0 Cable	1 pc.
5. LGA/TLGA-52/60 (12x17) adapter	1 pc.	12. PC-3000 Flash software, resource database*	1 pc.
6. Multiboard Adapter	1 pc.	13. User manual	1 pc.
7. Monolith Module	2 pcs.		

* Available in the Technical Support Portal.



PC-3000 Flash Solution Center

An online resource containing over 8 300 scripts for "one-click" data recovery.

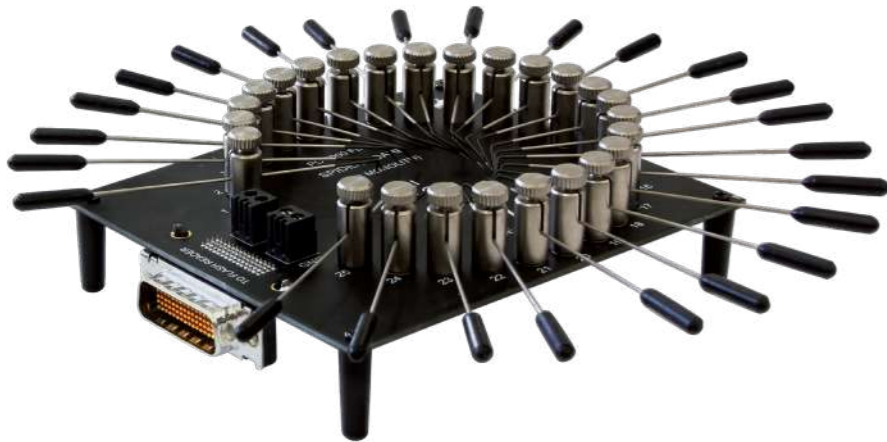
Use the experience of already solved cases to get a quick success at your current data recovery task. Ideal for beginners who are just starting Flash Data recovery.

In case none of the scripts helps to solve the problem, ACE Lab Technical Support will always assist you and lead to a successful solution.



Spider Board Adapter

(temporarily unavailable)



Change-maker in monolith recovery. Minimal Soldering & minimal risk.

The Spider Board Adapter is a universal all-in-one solution for safe data recovery from monoliths.

It is designed for connection to internal contacts of NAND-based Flash drives manufactured as single-package chips (monoliths). The adapter consists of 25 universal contacts that support software configuration of their connection with NAND interface signals in a corresponding task.

Using it, you will forget about tedious soldering and searching for specific adapters to each monolith you deal with!

Key Features to Recover Data from Monoliths

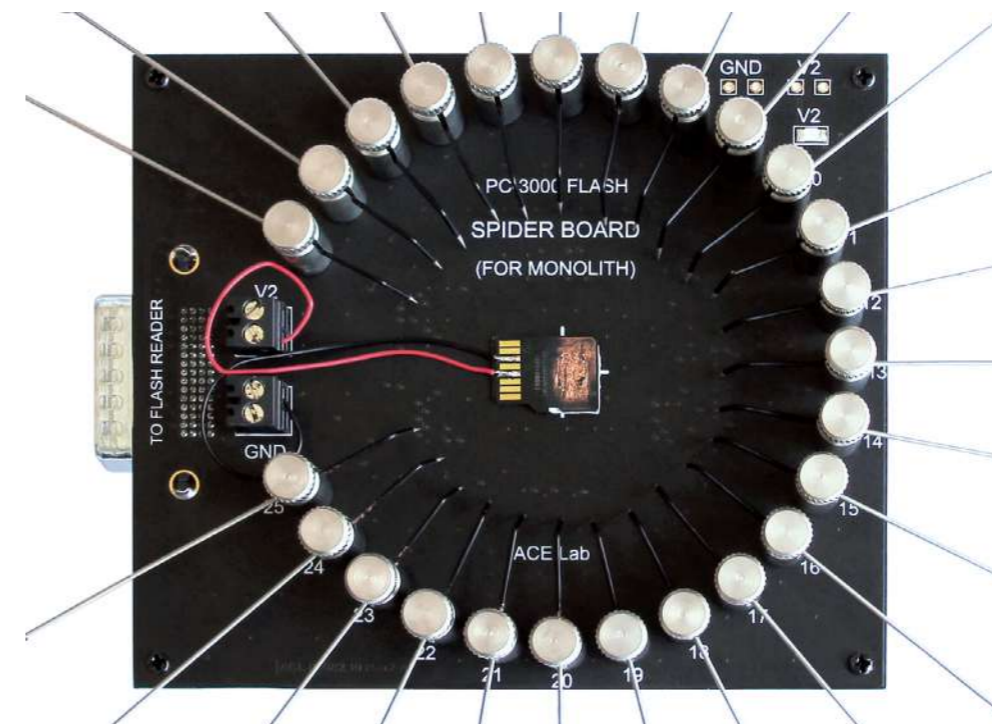
- ▶ Universal solution that doesn't require soldering to the technological pinouts. It saves time, reduces the risks and makes monolith recovery process much easier
- ▶ 25 specialized needles that help you connect to pinouts, no matter how they are located
- ▶ GND and VCC pins are fixed by screw connectors for convenient usage
- ▶ The adapter is developed specifically for using with microscope

With the Spider Board Adapter it is possible to



- ▶ Fine-tune the connectors on the software level
- ▶ Save the previous pinout settings in a file to use on similar cases
- ▶ Constant 5V or controlled by VCC (1.8 V-3.6 V) power supplies
- ▶ Control the adapter power supply via software
- ▶ Recover data from partially damaged SD and MicroSD cards as with a fully functional Card Adapter

Supported NAND-based devices: MicroSD, SecureDigital, UFD, MemoryStick.



Minimal soldering is required to power up the monolith.

Pinout connection is performed via 25 needles.



PC-3000 Mobile PRO **NEW!**

PC-3000 MOBILE PRO



New Approach in Mobile Forensics

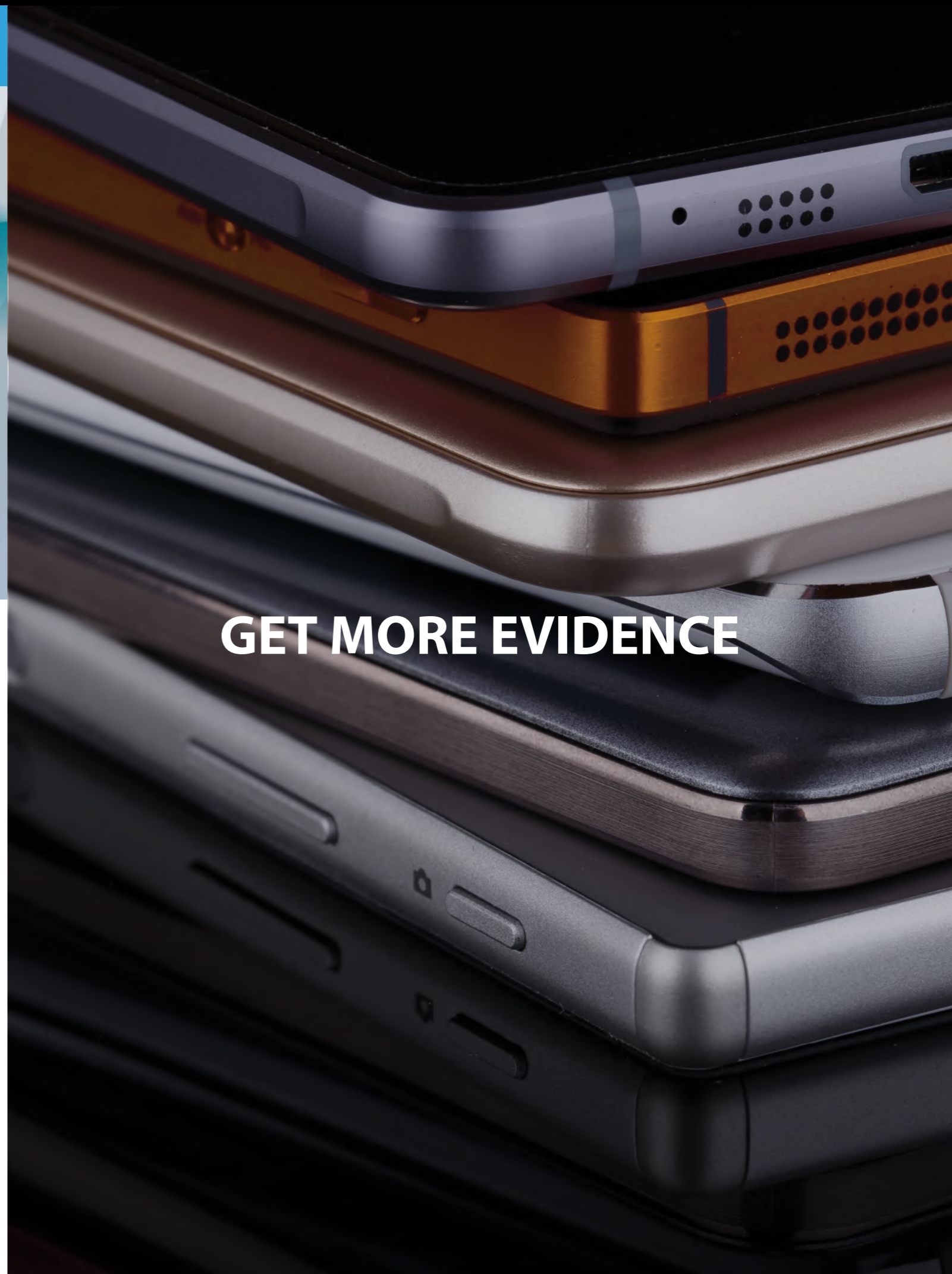
The PC-3000 Mobile PRO is a new solution for recovering data from mobile devices using the unique PC-3000 technology



To get more information about the PC-3000 Mobile PRO, please contact sales@acelab.eu.com providing your LEA ID.



GET MORE EVIDENCE



PC-3000 for Digital Forensics



MALFUNCTIONING STORAGE MEDIA IS NO LONGER A HINDRANCE TO YOUR INVESTIGATIONS

PC-3000

Key features for Digital Forensics:

- ▶ The world's unique advanced technologies to get data from damaged and locked storage media
- ▶ Storage device decryption
- ▶ Standalone mode for quick diagnostics and imaging on-site
- ▶ Export data to the forensics formats
- ▶ All devices connected to the diagnostic ports are isolated from OS influence
- ▶ Hardware write protection
- ▶ Hash sum calculation
- ▶ A diagnostic report of the drive status
- ▶ Mounting storage devices to the OS in the Read-Only mode



PC-3000 Forensics Systems:

System	PC-3000 Standard Forensic System	PC-3000 Ultimate Forensic System
Contents	PC-3000 Portable PRO All-In-One*  PC-3000 Mobile PRO* 	PC-3000 Portable PRO All-In-One*  PC-3000 Mobile PRO*  PC-3000 Flash All-In-One* 
	*The Kit adapters and all additional adapters are included	
Types of supported storage devices	SATA/PATA/SAS/USB HDD, RAID, PCIe/NVMe/SATA SSD, USB Flash/mSD/SD cards (logical issues only), Mobile devices	SATA/PATA/SAS/USB HDD, RAID, PCIe/NVMe/SATA SSD, USB Flash/mSD/SD cards (both logical and physical issues), Mobile devices

Irreplaceable tools for forensics data recovery

Digital forensics experts face obstacles when a suspect's storage device is physically damaged, logically damaged or/and locked. It is necessary to extract data before parsing it and analyzing information to get important evidence.

Instead of outsourcing the case or getting just a small percentage of evidence with imaging tools, digital forensics experts can really recover practically all data themselves using the **PC-3000** — the world's only comprehensive technology providing access to all-device data regardless of the extent of damages.

Digital Forensics Investigators can solve their cases which have not been solved yet

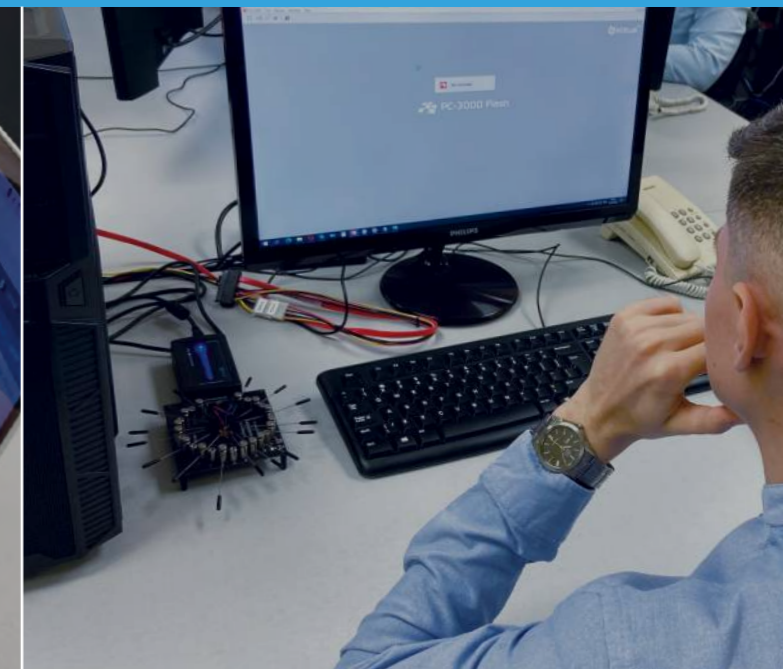
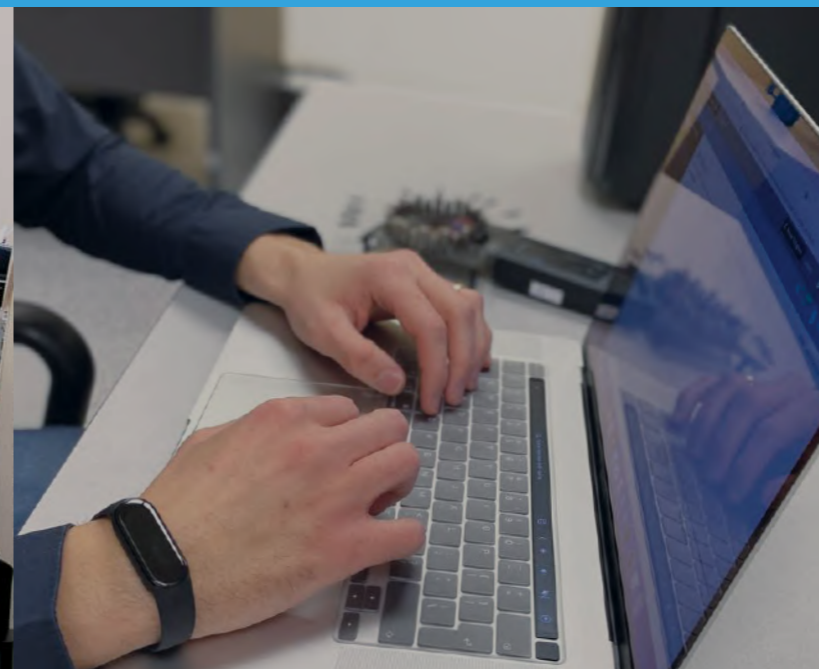
You never know which suspect's storage media device you will get: SATA /PATA HDD, SAS HDD, USB HDD, RAID, PCIe/ NVMe SSD, SATA SSD, USB Flash, mSD/SD cards, Mobile phones etc.

With the **PC-3000 Forensics Systems** by ACE Lab, you can extract data from all these types of storage devices!



ACE Lab Professional Technical Support

Right by your side until the case is solved!



Access the technology being supported by the professionals

Taking your first steps in data recovery?
Stuck with an especially difficult case?
Want to consult the professionals?

The biggest team of technical support engineers will help you

12 hours
a day

- ▶ Professional consulting by ACE Lab engineers via the CRM Ticket System
- ▶ TeamViewer assistance with the most complex issues
- ▶ Regular software updates containing new unique features that no other tools have

Data recovery is easy with ACE Lab Technical Support!

Don't know what next step to take? No worries – our technical support will get you covered! Our engineers are ready to:

- ▶ help you in learning
- ▶ even solve the case instead of you



If you need assistance with your case, just contact ACE Lab Technical Support! Our engineers will help you remotely with data recovery. If the Internet connection is not possible on the computer where you are dealing with the case, we can provide you with an instruction on which actions to perform to solve the case. Thus, you can be sure that our support will assist you safely, and that you will not be left alone with your case.

FREE helpful online resources

- ▶ blog.acelab.eu.com – ACE Lab Blog with much-needed video tutorials and interesting articles
- ▶ forum.acelab.eu.com – ACE Lab Forum, where you can share your knowledge and ask the opinions of the other experienced PC-3000 users and ACE Lab engineers
- ▶ www.youtube.com/user/PC3000datarecovery – ACE Lab YouTube channel with useful video tutorials

More information at www.acelab.eu.com & ts.acelab.eu.com



Professional data recovery training



A rapid way to data recovery mastership

PC-3000 Offline Data Recovery Training:

Training Type	Expert level	Advanced level
PC-3000 HDD Data Recovery Training	✓	
PC-3000 Seagate HDD Data Recovery Training		✓
PC-3000 Western Digital HDD Data Recovery Training <i>New!</i>		✓
PC-3000 RAID Data Recovery Training		✓
PC-3000 SSD Data Recovery Training	✓	
PC-3000 Flash Data Recovery Training	✓	✓
PC-3000 Monolith Data Recovery Training	✓	
PC-3000 Mobile Forensics Data Recovery Training <i>(Only for LEA) Coming soon!</i>		

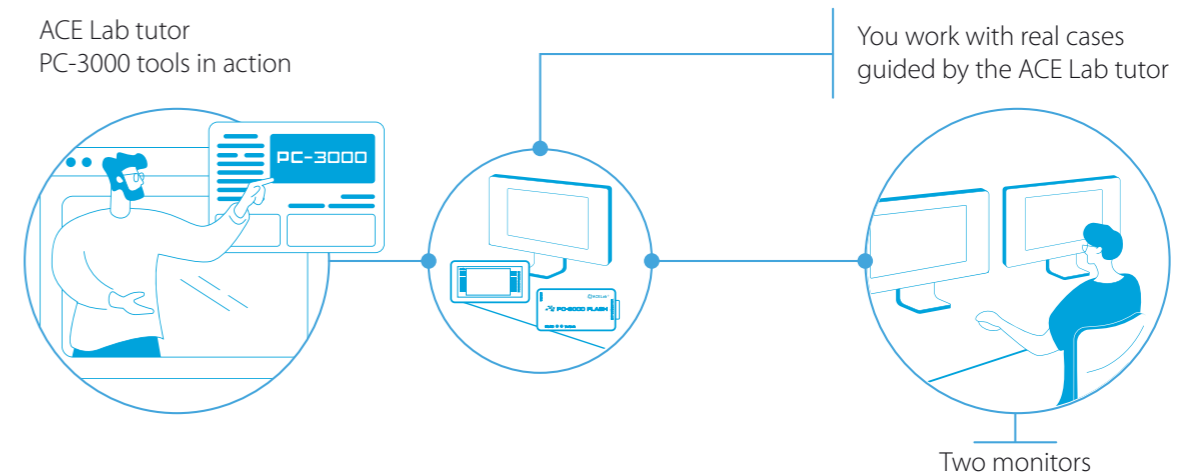
Training Locations

Czech Republic	at ACE Lab Training Center 	Germany	together with
USA	together with 	Canada	together with
South Korea	together with 	Japan	together with
Türkiye	together with 	France	together with
Singapore	together with 	Spain	together with

Get trained online:

Training Type	Basic level	Expert level
PC-3000 HDD Data Recovery Online Training	✓	✓
PC-3000 SSD Data Recovery Online Training <i>New!</i>	✓	
PC-3000 Flash Data Recovery Online Training	✓	✓
PC-3000 RAID Data Recovery Online Training	✓	
PC-3000 HDD Forensic Expert Online Training <i>(Only for LEA)</i>		✓
PC-3000 Flash Forensic Expert Online Training <i>(Only for LEA)</i>		✓
PC-3000 Mobile Forensics Data Recovery Training <i>(Only for LEA) Coming soon!</i>	✓	

Unique Format of Online Training



Why Train with Us?

- ▶ The widest range of data recovery practical tasks that you won't find anywhere else
- ▶ A short training course can substitute for several months of persistent self-learning
- ▶ Acquire troubleshooting skills to solve various data recovery cases
- ▶ Ask your questions directly to ACE Lab engineers
- ▶ Noticeable increase of your data recovery success rate straight after training
- ▶ ACE Lab training completion certificates show your expertise to your clients

Professional Offline and Online Events

Join the world's PC-3000 professional community.

You are always welcome to our Conferences, Meetups and Webinars!

- ▶ The latest and advanced techniques shared directly by the ACE Lab developers and top engineers
- ▶ Numerous tips and tricks and even ready-to-use solutions
- ▶ Asking questions directly to the ACE Lab top engineers
- ▶ Networking with data recovery peers
- ▶ Sharing experience in the data recovery community

Also, ACE Lab regularly participates in almost all of the numerous digital forensics conferences and exhibitions worldwide and showcases the PC-3000 solutions to meet the needs of data recovery experts and digital forensics investigators.



About us

32+
years

140+
countries

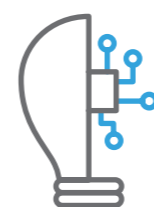
20 000+
customers

ACE Lab is internationally recognized as a pacesetter in the development of the solutions for recovering data and evidence from the widest range of storage devices. For 32 years we have been setting the benchmark and remaining the proven leader in the field by constantly perfecting our products and services. Through the PC-3000 product line we provide customers with the most comprehensive and reliable professional data recovery tools on the market. Upward of 20 000 professionals from over 140 countries trust ACE Lab and get profit from the PC-3000 solutions.

Our company has been certified with ISO 9001:2016 and ISO/IEC 27001:2014. Thus, our customers can be sure that ACE Lab fully complies with the quality management and the strictest information security requirements.

The world's leader in developing the smartest data recovery solutions for all types of damaged storage devices

Core competencies



Professional data recovery R&D



Products manufacturing



Application of data recovery techniques in digital forensics



Full-scale technical support service



Training in all areas of data recovery

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08:00-15:00 EDT

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