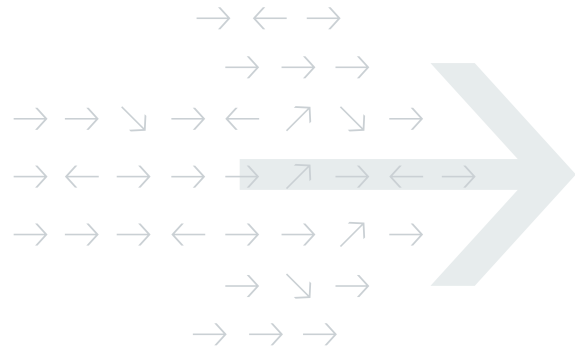




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# «Most efficient NAND Recovery Technology» seminar program

## 1. Introduction. Basic concepts

- Structure of flash storage
- Typical malfunctions of flash storage
- Function of PC-3000 Flash SSD Edition

## 2. NAND memory

- Variety of packages
- Physical structure of NAND memory chip
- Logical structure of NAND memory chip

## 3. Controller

- Data management and allocation within memory space
- Controller-memory data transfer channel
- Structure chart of controller logic

## 4. PC-3000 Flash SSD Edition hardware-software system

- Concept
- Types of results
- Database of chips
- Function review
- Modes and methods of data recovery
- Automatic recovery methods (Complex analysis, Global Solution Center, semi-automatic method)

## 5. PC-3000 Flash SSD Edition manual recovery methods

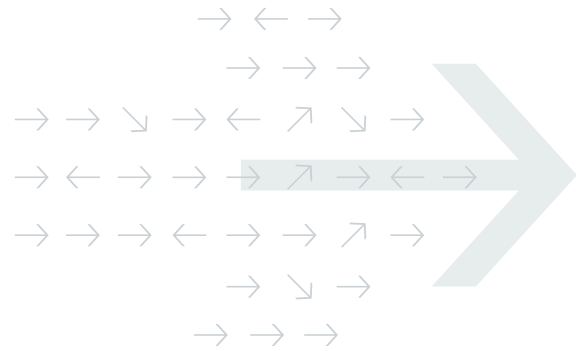
- Data preparation methods:
  - Joining by bytes
  - Inversion
  - Page transformation
  - XOR elimination
  - Interleave operations (internal and external)
  - Additional operations
- Algorithms of controller
  - Translators
  - Block numbers
  - Additional algorithms
- ECC correction
- RAW recovery mode
- Map Mode
- Additional modes

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## **6. Logical recovery and how to improve your results**

- Quick disk analysis
- Partition analysis
- Data quality analysis
- Block versions

## **7. Technology of recovering data from Solid State Drive (SSD)**

- Introduction. Basic differences and peculiarities
- Methods and principles of data recovery from SSD
- Use of PC-3000 Flash for data recovery from SSD

### **Practical training:**

- Up to ten totally different tasks for attendee to study recovering in manual mode
- Disassembling of USB drive, memory chip unsoldering, cleaning, reading
- Detailed analysis of functions for performing data recovery at real tasks
- All the described theoretical themes above are applied in practical classes