

## AX-FHD Forensic Hard-Drive Duplicator

### Product Introduction

The AX-FHD (Forensic Hard-drive Duplicator) is an **industry-standard, high-performance forensic tool** designed for rapid and secure data acquisition, cloning, and analysis. Featuring a user-friendly 10-inch touchscreen and versatile interface support (SATA, SAS, USB, PCIe), it integrates **disk cloning, imaging, data sanitization, and hash verification** into a single platform. Ideal for law enforcement, digital forensics labs, and enterprise compliance, it ensures court-admissible evidence handling with **zero data alteration**.



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### Key Features

#### 1. Multi-Interface & Scalable Operations

- **Read/Write Interfaces:**
  - **Read-Only Ports:** 1x PCIe, 2x SAS 3.0/SATA 3.0, 1x USB 3.0.
  - **Read-Write Ports:** 1x PCIe, 2x SAS 3.0/SATA 3.0, 1x removable SATA 3.0, 1x USB 3.0.
- **Flexible Cloning Modes:**
  - **1:1, 1:N, N:1, N:N cloning** (up to **4:4 concurrent operations**).
  - **Apple Mac Imaging:** Secure Target Disk Mode via Thunderbolt.

#### 2. High-Speed Performance

- **Blazing Speeds:**
  - **60 GB/min** (M.2-to-M.2 direct copy).
  - **35 GB/min** with SHA1 hash verification (DD/E01 formats).
- **Resumable Tasks:** Continue interrupted jobs seamlessly.

#### 3. Forensic Integrity & Compliance

- **Hash Verification:** MD5/SHA1/SHA256 checksums for evidence validation.
- **HPA/DCO Detection:** Identify and restore hidden partitions.
- **Disk Analysis:** View SMART data, HPA/DCO status, and lock states.

#### 4. Advanced Functionality

- **Network Storage Support:** Connect NAS/SAN via **iSCSI/CIFS** in read-only/read-write modes.

- **Parallel Processing:** Run 3 tasks simultaneously (clone, image, erase).
- **Tamper-Proof Logs:** Auto-generate task-specific audit logs.

## 5. Portability & Environment

- **Compact Design:** 260 x 177 x 57 mm (L x W x H), 1.8 kg.
- **Operating Conditions:** 5°C–35°C; Storage: 0°C–40°C; Humidity: 30%–80%.
- **Future-Proof:** Lifetime firmware updates for new storage technologies.

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## Package Contents

- **Shockproof Carrying Case** (Black).
- **Duplicator Unit:** AX-FHD Forensic Hard-drive Duplicator.
- **Power Supplies:**
  - 19V DC Power Adapter.
  - AC Power Cable.
- **Cables & Adapters:**
  - 2x SFF-8482 SAS/SATA HDD Cables.
  - 2x SFF-8482 Male-to-Female Extension Cables.
  - USB 3.0 A-Male to B-Male Cable.
  - USB 3.1 Type A to Type C Cable.
  - USB 3.0 A-Male to A-Male Cable.
  - USB 3.0 Multi-Card Reader.
  - 3.5" IDE to SATA Adapter (with Power Cable).
  - 2.5" IDE to 3.5" Adapter Plate.
  - 1.8" Micro SATA to 22 Pin SATA Adapter.
  - Stylus Pen.
  - 2x Anti-Shock HDD Cases.
- **Specialized Modules:**
  - O2P-RO PCIe SSD Adapter Module.
  - O2M-RO PCIe M.2 SSD Interface Module.
  - 2x Small 4P to 15P Power Cables.
  - 2x PCIe Adapter Data Cables.
  - M.2 NVMe SSD to PCIe Adapter Card.
  - M.2-Mac PCIe SSD Module (Post-2013 Models).
  - SATA-Mac SSD Module (2010–2011 Models).
  - SATA-M.2 SSD/mSATA SSD Adapter Module.

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## Technical Highlights

- **Hardware-Accelerated SHA1:** Optimizes speed without compromising integrity.
- **Three Operation Modes:** Local, Online, Remote for flexible workflows.
- **Enterprise-Grade Security:** Complies with **ISO 27037** and **NIST SP 800-88** standards.

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## Use Cases

- **Law Enforcement:** Rapidly clone suspect drives (HDD/SSD) during raids.
- **Corporate Audits:** Securely erase decommissioned drives to prevent data leaks.

- **Forensic Labs:** Analyze encrypted Mac systems via Thunderbolt imaging.
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#### Why AX-FHD?

- **All-in-One Efficiency:** Combines cloning, imaging, and sanitization in one device.
- **Court-Ready Compliance:** Hash verification and audit logs for legal admissibility.
- **Scalability:** Adapts to PCIe 4.0/5.0 SSDs and future storage protocols.

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