

PUMA

Portable Universal Media Archive



*the Award Winning solution to secure evidential archiving of digital data**

PUMA is a rugged and evidentially secure system for archiving Flash card and USB storage data to CD, DVD or Blue-ray media. Unlike other file copying solutions, PUMA copies ALL data from the flash card as a bit for bit copy, reducing the chance of costly legal challenges later in the process. PUMA complies with the requirements of the Home Office 'Digital Imaging Procedures' document, Version 2.1 November 2007.

PUMA was developed in collaboration with UK law enforcement agencies for use by non-expert law enforcement officers. Its automated backup and verify procedure make it simple to use and PUMA is compatible with a wide range of digital cameras, flash based audio and video recorders and USB storage devices. It also includes intelligent format conversion such as RAW to JPEG image conversion to provide a Working Copy which can be accessed on most standard PCs. PUMA can provide optional AES 256 encryption for the Working Copy to comply with current UK Government guidelines on data security.

The main features are as follows:

- Evidential Master and Working Copy automatically produced
- Simple operation. Single, dedicated "Transfer" button initiates entire archive sequence. This eliminates the chance of the operator omitting part of the procedure.
- Master Copy contains bit for bit "image" of entire flash card to provide the ultimate evidential audit trail reducing the chance of evidential challenges.
- Compacts blank space on Flash card reducing Master size.
- Working Copy format conversion: e.g. RAW to JPEG, MPEG2 to Video DVD.
- Forensic card wipe process ensures that archived data cannot be retrieved from Flash cards after use and removes any viruses.
- Re-mounts and verifies disk after writing to ensure maximum reliability of backup.
- Supports wide range of DVD +/- R, +R/W, +/-R DL, CD -R and BD-R (optional), media.
- Fast transfer rate. Up to 20Mbyte/s. 4Gbyte card copied in 4 minutes.
- Any size of Flash card or USB disk supported with disk spanning
- Premium quality, full height DVD R/W drive gives longest disk life.
- Proprietary software tailored precisely to the needs of law enforcement and evidence gathering.
- Can be powered from mains, vehicle power or external batteries.

* Equipment and Technology Award presented at HOSDB 2009 in conjunction with S.O.C.A.

Applications

- Production of Master Exhibit and Working Copy from Flash card data for use in criminal and civil courts
- Authentication of evidential data and maintenance of evidential audit trail
- Encryption of evidential data prior to release to outside agencies
- Automated Working Copy DVD authoring from MPEG-2 files
- Conversion of RAW images to JPEGs
- Cloning of flash cards and USB drives

Specifications

Card Types	Memory Stick, Memory Stick PRO, Microdrive, MultiMediaCard, SD Memory Card, SDHC, SmartMedia Card, Memory Stick Duo, Memory Stick PRO Duo, CompactFlash Card, USB memory stick (FAT /FAT16/FAT32 for file copy)
Card Size	64 Gbyte Flash cards and beyond. No size limit
Optical Disk Types	DVD +/-R, DVD +RW, CD -R ,DL +/-R, BD-R (option at time of purchase)
Disk Format	ISO 9660, UDF2.01 (BD-R version)
DVD/BD Transfer rate	Up to 24MByte/s (18x)
Flash Transfer Rate	Up to 20 Mbyte/s with fast cards (eg. SanDisk Extreme III)
Encryption Type	AES 256 with automatic 16 character random password generation
Software	Proprietary Linux.
Internal Disk	Solid-state, Flash read only
Start-up time	22 secs
Power	12 +- 0.4V dc 5A (max.) 1.5 A typical
Size:	190 w x 100 h x 202 d mm
Weight	1.92Kg

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