

FORENSIC SOLUTIONS
IN THE **FIGHT**
AGAINST ONLINE
CHILD EXPLOITATION



BLUEBEAR

Bluebear LES is a private Canadian company focused on forensic solutions in the fight against Online Child Exploitation. Its objective is to design and develop software that gives law enforcement the solutions they need to do their jobs effectively, efficiently and successfully. BlueBear created a suite of tools for use by Law Enforcement specific to handling Child Exploitation cases. BlueBear's flagship product is LACE.

WHAT IS LACE

Court-ready reports are just a few mouse clicks away

LACE is designed specifically to enable an investigator to review all visual content (images & videos) of a confiscated computer quickly, efficiently, and with minimal stress. The majority of the process is fully automated requiring only nominal input from the user such that investigators can do a complete and thorough analysis, rapidly create reports for court prosecution, and then immediately move on to the next case.

LACE uses a superbly integrated solution to quickly process the overwhelming load of image and video evidence routinely associated with child exploitation cases. LACE also provides advanced tools to help in the identification of victims, suspects, witnesses, crime scenes, and related cases. This includes the capability to automatically categorize images and videos, detect, extract, and match faces. After case processing is completed, court-ready reports are just a few mouse clicks away. LACE additionally offers a secure means for cross jurisdiction collaboration between police services worldwide.

WHAT LACE DOES

Reduced Stress

LACE Uses a police oriented workflow and polished graphical user interface to reduce investigator workload by processing more cases in less time and with significantly reduced stress.

- › Simple, efficient methods of carving image and video files from any computer media
- › An intuitive graphical interface for promptly reviewing image and video files
- › Image matching and de-duplication of strictly identical images and matching against a reference database using hash values. (MD5 & SHA1)
- › Visual matching and de-duplication of images and videos visually identical but with different hash signatures allowing matches to be made to images and videos that have been: cropped, rotated, watermarked, eyes covered, faces covered, stretched, colors changed (B&W, Sepia, etc.), thumbnailed, format changed (JPEG vs. TIFF vs. PNG, vs. GIF, etc.), resolution changed, and damaged files (partially deleted or downloaded, forensically recovered)
- › A dramatic reduction (80 to 95%) in the number of media-evidence files that require manual review
- › Compatibility with existing forensic software like Xways, Encase, and FTK
- › A reduction in investigator stress levels
- › A reduction in case analysis time, by a factor of ten or more
- › A reduction in court trial preparation
- › A means to identify victims and suspects
- › A means to collaborate with other linked ICE units worldwide by easily and securely sharing case results

LACE'S SPECS

How it is done

- › LACE operates in a client-server environment that can be totally disconnected from enterprise networks or the Internet.
- › Multiple workstations can concurrently access LACE for work on different cases - allows each investigator to work on their own case at their own desk simultaneously
- › Carves Image and Video files from E01, Ex01, L01, Lx01, S01, or DD files from Encase, Xways and FTK - fully compatible with existing forensic tools
- › Extracts image and video files directly from physical drives - carves from allocated and unallocated space
- › Extracts images and videos from a Window's folder or Drive (DVD, USB, CD etc..)
- › Scans ISO/BIN/CUE/ZIP/RAR archives and copy protected DVDs; segregates password protected archives
- › Scans all types of thumbs.db and thumbcache archives
- › Scans Shadow Copy backups - also automatically de-duplicates Shadow Copy files
- › Carves images and videos from embedded files - includes all document types and Emails
- › Automatically de-duplicates and matches images - tolerates rotations, cropping, watermarking, changes in resolution or format, colour vs. B&W vs. Sepia, damaged files, and minor alterations like obscured eyes/faces
- › Automatically categorizes media files matched from previously processed cases - the accumulated database typically allows 80% to 95+% of case files to be automatically categorized
- › Filters out irrelevant/junk files - the gifs, icons, borders, and edges that accumulate in temp directories
- › Identifies new unknown and relevant media-evidence files for manual review - Categorize the new files and automatically add them to the accumulated database
- › Automatically detects and extracts faces from case media-evidence files
- › Uses automated facial identification to detect facial images of a victims and suspects from previously processed cases
- › Allow similar image matching and sub/partial image matching
- › Supports MySQL, MS-SQL, Postgres, and Oracle databases - not tied to any specific database
- › Helps identify victims, and suspects - immediately know if your current case involves a known victim
- › Enables direct collaboration and securely shares information across linked police jurisdictions, world-wide - Simple tools for exporting and importing hash sets, visual signatures, and databases in almost any format allowing sharing with all sources.

ADDITIONAL INFORMATION

— CASE ALLOCATION —

Lace includes a unique Case Allocation capability that allows the uncategorized files from a case to be distributed to specific users for completion. This allows multiple investigators to all work on the same case at the same time: very useful for the rapid completion of high priority, time sensitive cases.

— REPORTS —

Lace includes a powerful and flexible reporting capability with formats including: PDF, ODF, DOC, HTML, CSV, and TXT. Default reports include Court Reports, Case Statistics, Case Evidence Timelines, Hardware/Software Benchmark Performance, User Categorization, and other summaries. Additional customized reports for specific requirements can be added as required.

— PRICING —

LACE Server is licensed on subscription based pricing per server (unlimited clients) that allows law enforcement agencies to use all the benefits of the LACE solution for a very reasonable yearly fee.

LACE is also available as a stand-alone single client version.

CONTACT US FOR MORE DETAILS



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