

SPIKENET TECHNOLOGY™

Reverse Engineering Human Vision

SPIKENET'S NEW DISRUPTIVE VIDEO INDEXING & SEARCH ENGINE (patented)

No watermarking.

No fingerprinting.

No Image segmentation & histogram

No tag.

Only plain pixel based !

LIGHTNING SPEED

With standard PC, mono CPU, 2Ghz:

- Index a frame in **2ms**

- Find 1 image in **30 Millions** images or browse **300 video hours in 1 second**

STRIKING SMALL FOOTPRINT

2 Mbyte of index for 1 hour video

GROUND BREAKING ACCURACY

- Locate exact image down with **ms accuracy**.

- Find similar images

EXTREMELY LOW ERROR RATE

1 recognition error for **5 Billions** images

HIGH SCALABILITY

- Standalone PC to **Grid** architecture

- Linear predictive performances/resources

GO Image Mining (find face, logo, visual pattern) with MIND and \$NVISION, \$pikenet's visual pattern recognition engine.

MIND USE CASES

Media Assets Management, Copyright Infringement Detection, Commercial Detection, Image & Video Mining.

MIND your media!

SPIKENET Technology

PROLOGUE 1

La Pyreneenne

BP 27201

31672 LABEGE Cedex

FRANCE

Phone +33 (0)5 61 00 91 45

Fax +33 (0)5 61 00 44 01

MIND Suite

MIND, Indexing & Search

MIND Library Win32 dll

MIND Slave (for grid version)

MIND Indexer widget

MIND Suite

VIDEO INDEXING & SEARCH ENGINE

VIDEO INDEXING ENGINE

Live or recorded video stream inputs.

Real Time index generation.

Up to 20 simultaneous feeds per PC at 25fps.

Frame change threshold and index generation fully programmable.

Accepts all DivX compatible format.

IMAGE & VIDEO SEARCH ENGINE

Find an image in a media database.

Find video source.

Find exact image and similar images.

Matching Threshold fully programmable.

Pixel based comparison.

PERFORMANCES

2ms index creation per frame

2ms to locate an image per video hour

2Mb index size for 1 hour of video

TOLERANCE

Image Size, Ratio, Contrast, Hue, Blur, Noise, Lighting conditions variations: **NO IMPACT !**

Image Rotation: +/- 3%

Image Shift: +/- 3%

Image Crop: +/- 3%

SYSTEM REQUIREMENTS

PC Windows XP (sp2), 2000, 98SE

Microsoft DirectX 9.0 or higher

Minimum 1GHz CPU, 512 MB RAM

50 MB free disk space

