

Breakthrough Compression: 13 to 1 Lossless Technology

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THIC Inc.

The Premier Advanced Recording Technology Forum

Welcome to

"ShadowOne"

Image/Video
Compression Tool and
more...

"ShadowOne"
IMAGE/VIDEO COMPRESSION TOOL

**New Compression Technology
for:**

- **Images (Color & B/W)**
- **Image Assurance/Integrity**
- **Voice/Audio**
- **Full-Motion Video**
- **Transportability**

"ShadowOne" **IMAGE/VIDEO COMPRESSION TOOL**

ShadowOne enhances:

- **Communications**
- **Storage**
- **Bandwidth Usage**

"ShadowOne"
IMAGE/VIDEO COMPRESSION TOOL

Ours and the rest!!

**Temporal
Differential
Encoding!
(Geometry)**

VS

**Others: Fractal,
Wavelets and JPEG-All
uses Trigonometry-
Discrete cosine transformer =
remainder.**

"ShadowOne"

IMAGE/VIDEO COMPRESSION TOOL

What's in it:

- Artificial intelligence**
- Calibration (Image to screen)**
- Pattern recognition/ Edge analysis**
- Neural nets**
- Best of all it is fast**

"ShadowOne" IMAGE/VIDEO COMPRESSION TOOL

Our Numbers!!

➤ Images	Up to 13:1	LossLess
	100 to 500:1	Visually LossLess
	1000 to 4000:1	Lossy, Video Ready
➤ Video	100 to 800:1	Lossy
➤ Text	8 to 16:1	LossLess
➤ Audio	10 to 100:1	Lossy

"ShadowOne"
IMAGE/VIDEO COMPRESSION TOOL

Features

- **PC's/Laptop**
- **Infinite In/Out Zooms**
- **Software based**

"ShadowOne" IMAGE/VIDEO COMPRESSION TOOL

Features Continued:

- Works on 1, 8, 24 bit images
- FAST – Image Compression and Viewing
- Compressed image magnifies with excellent *quality* and *clarity*

"ShadowOne"
IMAGE/VIDEO COMPRESSION TOOL

Standards

From Trigonometry (cos/r) To Geometry (no/r)

Market Standard

Cosine in blocks to represent an image

To

"ShadowOne" Standard

Whole Image

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On the horizon!

**Compress 8>12 bit grayscale & 24>36
color to archive in lossless format**

*New basis for lossless encoding for stills,
video and 3-D imaging*

"ShadowOne"
IMAGE/VIDEO COMPRESSION TOOL

Video

Uses video sampling and our still image compression algorithm to provide visually clear and extremely small video files.

"ShadowOne" IMAGE/VIDEO COMPRESSION TOOL

Video Compression Comparison

Clip	Source	Frames	Size
One	VHS Tape	2512	22.6GB
Ratio		1:1	
<u>Per Frame</u>			<u>901KB</u>
Full Screen	MS	AVI	194.7MB
Full Screen	ImpactTDE	500KB	6.544MB
Full Screen	ImpactTDE	380KB	4.982MB
Variable Window	ImpactTDE	46KB	611KB

"ShadowOne" IMAGE/VIDEO COMPRESSION TOOL

Video Demo Clips

<u>Name</u>	<u>Original Size</u>	<u>Compressed Size</u>	<u>Total Frames</u>	<u>Clip Time</u>
<u>Clip 2</u>	<u>4.0 GB</u>	<u>8.7 MB</u>	<u>4410</u>	<u>00:02:26.7</u>
<u>Clip 3</u>	<u>3.3 GB</u>	<u>6.0 MB</u>	<u>3600</u>	<u>00:02:00.3</u>
<u>Clip 4</u>	<u>12.8 GB</u>	<u>28.8 MB</u>	<u>13920</u>	<u>00:07:44.3</u>
<u>Clip 5</u>	<u>4.4 GB</u>	<u>10.0 MB</u>	<u>4800</u>	<u>00:02:39.7</u>
<u>Clip 6</u>	<u>9.2 GB</u>	<u>16.2 MB</u>	<u>9990</u>	<u>00:05:32.5</u>

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IMAGE/VIDEO COMPRESSION TOOL

**It is time for
a Demo!!**