

Active Link Vision - 3DVideoGIS -

Bring Real World to your Desktop



<http://www.iwane.com/en/>

ALV (Active Link Vision) is regarded as a most user friendly, flexible and powerful Desktop 3D Video GIS software, having received many appreciations for its excellence. It's a choice of Analysts, surveyor's, GIS professionals worldwide for visualizing and analyzing the relationship between 3D Video data and Geography.

It's a premier solution for desktop GIS Analysis. ALV includes tools and data you can use immediately to perform the state-of-the-art analysis on key issues. It lets you to work with the Maps, 360 degree Video and Attribute of Objects all in the single Application



- ALV Desktop Application



- Parallel world on Desktop

3D GIS of ALV includes 3D technology leading in the world, which can enhance 360 degree video to 3D information platform.

It enables you to create, visualize, analyze and present information better and more effectively with the real image.

CV Value

CV Value is the base of 3D features. It is the position and posture data of every frame of video, which is only from the image.



CV Value and Image



Feature Points extracted from CV Value and Image

Intuitive data source which appeals wider audience

360 degree video of ALV provides special vision which has every angle of view around the camera and possible to control the video, Forward, Back, Zoom In/Out, etc. You can spot the point of interest as if you are in the middle of the road.



- 360 Degree Video

Fit for purpose



Pathway



Riverbank



Aerial



Walking Tracks

No Dead Angle Image

Using 3D image processing technology, the dead angle by shooting car can be composed to make complete 360 degree video.



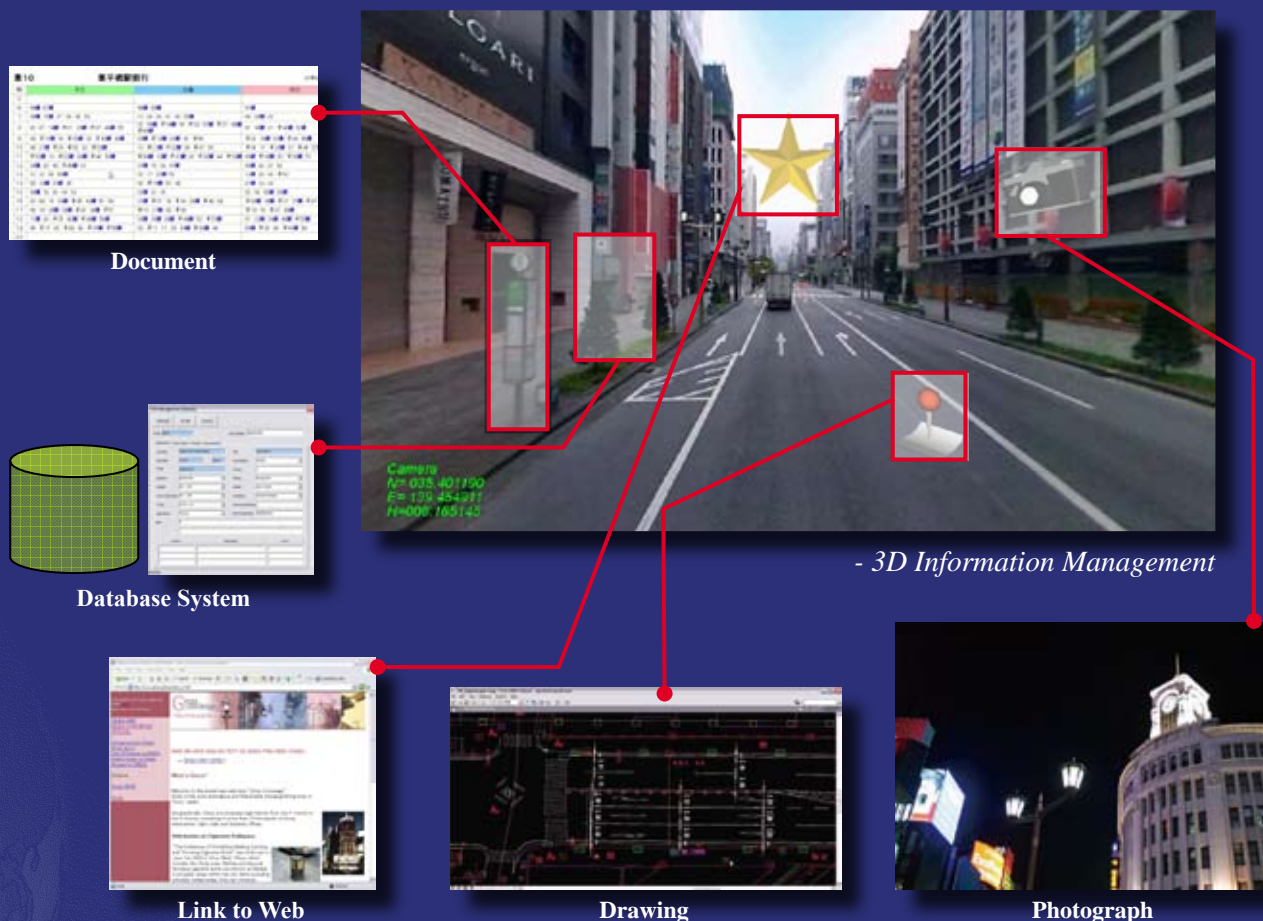
Image with dead angle



Complete 360 degree image

Visual and Intuitive Management by 3D Video GIS

It is extremely intuitive GIS with various information such as surround-viewed image with three-dimensional information, map, aerophotograph, drawing, ledger, and still photograph, etc. combined mutually by Link Key "CV tag" added to objects or CG icons in the image.



360 Spatial video data can be readily shared within same organisation enabling repeated examination and multidisciplinary

Management with Real Image

The real situation can be checked around the target object.

Management with 3D coordinate and shape

Target Object : Real or Virtual object (Tree, Light, Signboard, etc.)

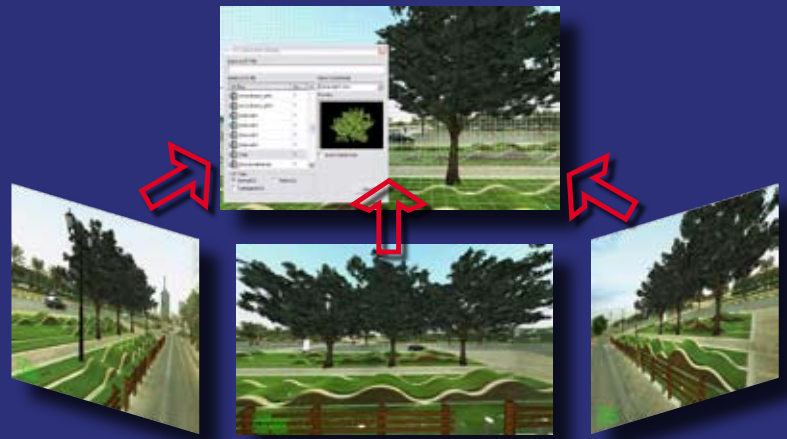
Management linked with Any kind of data / system

Data : Document, Image, URL, etc.

System : Database System, Another Application

3D Scene Simulation

For your use of Road, River, or City Planning, the 3D feature of ALV can be the best solution. It is possible to put the 3DCG with the high accurate 3D Coordinate in our 360 degree video. It is the perfect fusion of the reality and virtuality.



Results can be viewed from any frame of Video



- Real Visual Simulation

3D object can rotate, scale, pan and add attributes, hereby you can achieve the real visual simulation. After placement of the object inside the 3D Movie, one can visualize the scenario in real time.

Landscape simulation and planning is an example of this application.

3D Measurement

The coordinate of every pixel on every frame can be acquired from 360 degree video.

You can measure and display the real distance between the two points in three dimensions by specifying the coordinates of two points.



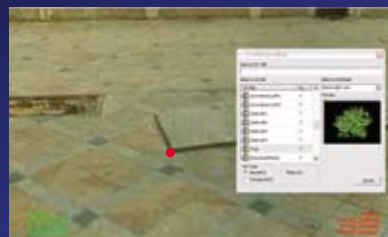
3D Measurement in a frame



3D Measurement beyond frames

High Accurate Positioning and Easy 3D Interface

Using tracking technology, it is possible to get high accurate 3D coordinate at any pixel. And Grid Mode provide you with easy and intuitive interface to deal with 3D feature.



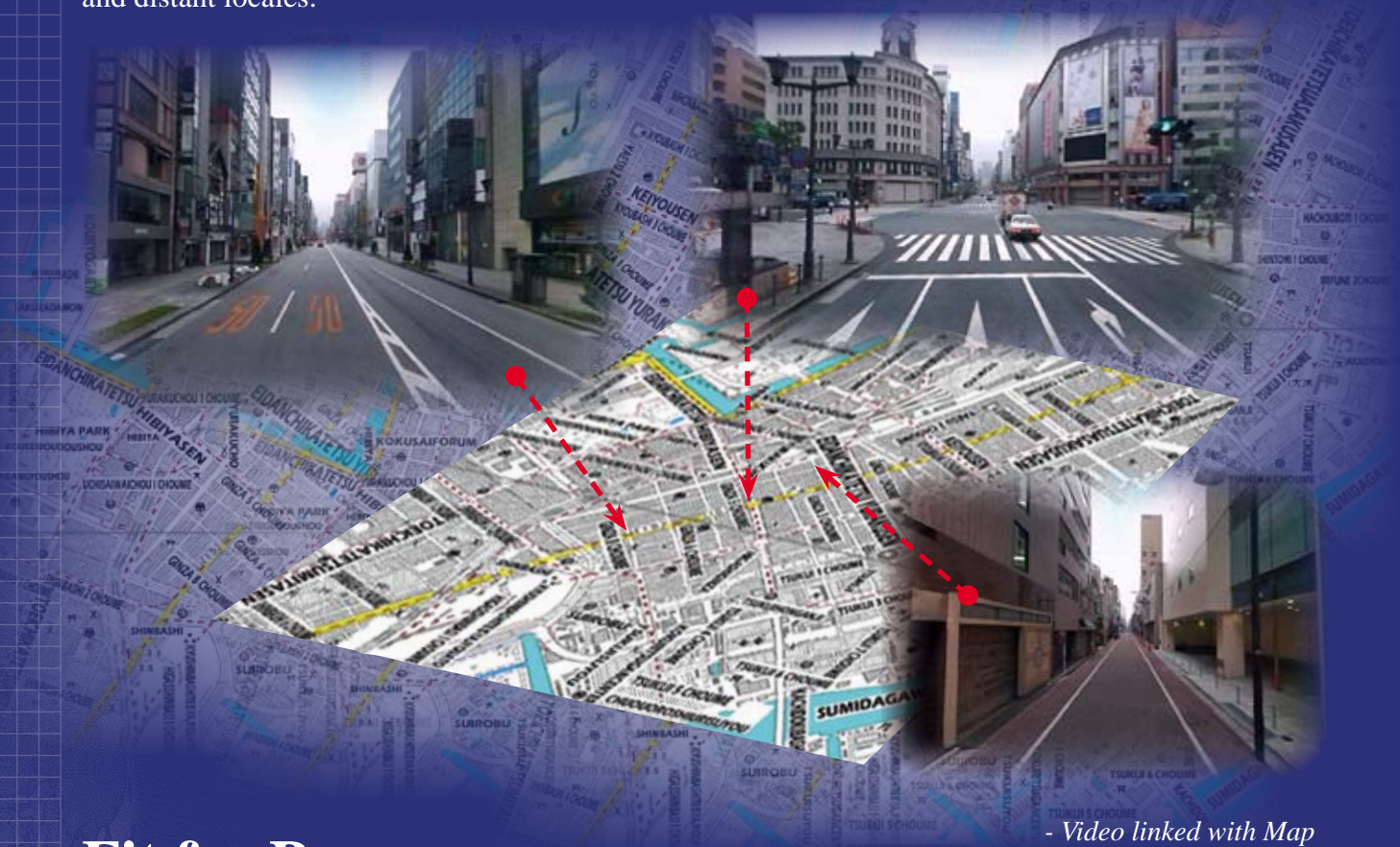
Tracking Mode



Grid Mode

Feel just like strolling in the location freely

360 degree video is embedded with GPS information that can be integrated into GIS mapping application. It provides users with access to a specific location and enables them to see what the environment looks like, given them a complete perspective access to this imagery saves time, money and provides significant data eliminating the need for multiple visits to sites, properties and distant locales.



- Video linked with Map

Fit for Purpose

360 degree data can be simply tagged with position information or calibrated so that measurements of objects within the frame can be extracted.

3DVideo verification of asset inventory and existing database records. Video provides a very rich data source when integrated within a Geo (GIS)



Ortho Photograph

Drawing



Other Map features

- Support for raster and Vector Map data
- Basic function like Zoom-in, Zoom-out, Pan, Selection etc..
- Location Search : Search Key (Location Name, Address, etc.)
- 2D Measurement
- On the fly function (Add CG location to the 2D GIS)

Applications

Asset management

- Tree Management, Green zone Management, Light Management, Advertizing Management, Shop Management



Road management

- Current state confirmation, Detour examination, Response to various requirement, Disaster record arrangement, Underground structure management, Main structure ledger management, and Universal design examination

Traffic Measurement

- Current state confirmation, Pavement extension, Width investigation, Sign ledger arrangement, and Underground laying management



River Management

- River construction plan, River structure management, Riverbank condition management, Riverbank vegetation management and Flood simulation

Railway Management

- Current state confirmation, Point and distance measurement, Railway construction plan Infrastructure management, Illumination, Information board management, Large screen display in disaster prevention room, and Power line management from aerial photography



Military Management

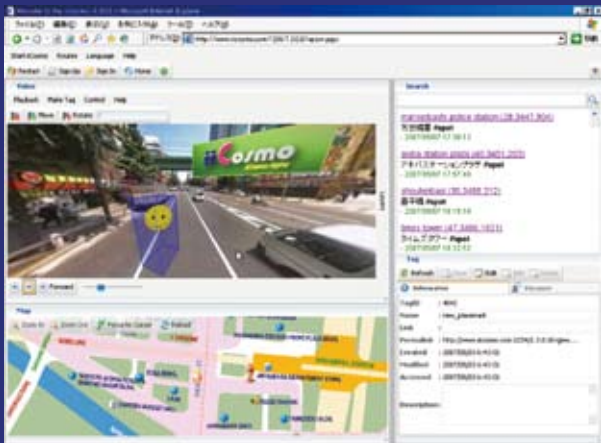
- Mission planning, Situation awareness, and Security control

iiCosmo :Parallel World on Web

Allows a wider audience to access and interact with spatial referenced video using standard Internet browsers.

In the image, various CVTags (3DCG) can be set up by user.

CV Tag is directly accessible from/to other Web sites and services.



- Parallel World on Web

Super Wide Angle Image

“Super-view 300”, the new feature –technology of 300 degree super wide angle image.

Presence-feeling is extremely near the actual sight can be experienced.



- 360 Degree Video



- Impressive Super Wide Angle Image

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