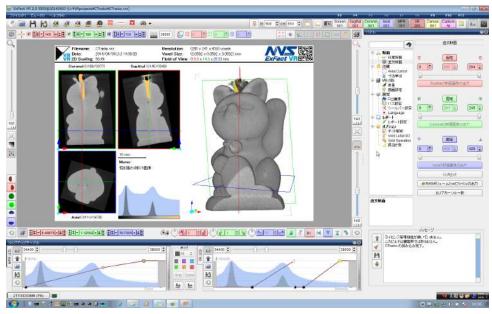




ExFact. VR 2.0

The word "ExFact" is coined as a brand name of software which presents our fine work of performing 3D image processing. The meaning of "ExFact" holds "Examine and Express the Fact"

The software visualize to 2D/3D by volume rendering technique of tomography data obtained from such as X-rays CT.



Carefully designed layout that user understand relationship of 2D, 3D and additional information intuitively. Handle 2D and 3D image independently so can get report as "what you see is what you get".

The concept of "Data First" that ExFact VR suggests

- The software makes redistribution and reproduction of three-dimensional image easily.
- Overwhelming size of high quality data and information to compact format and send it to client quickly
- From simply "see" data to "observe and understand" level

Make your client understand 2D/3D image intuitively by sending movie which made by the software. One of purposes of the software is that consider user who not use device like X-ray CT directly so you can expect such user understand image well without using expensive equipment.

It is a set of techniques used to visualize data distributed in 3D space by CG (Computer Graphics) technology. It makes to visualize indeterminate shape of data and internal structure of object easily. One of advantage of the techniques is that display data transparently and get natural contrast or shade,

The advantages of ExFact are...

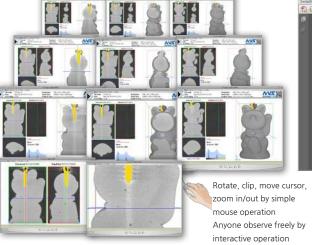
- ① Built in our original technology "VR-VR
- 2 Make quick and various high quality reproducible compatibility reports automatically that reduce operation hours of users
- 3 ExFact is designed as "a tool to use routinely" that has practical interface and architecture to oriented users

As a result, reduce the man-hour and has a merit of good software.



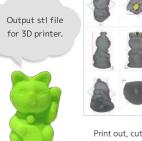
Hand made product "Mikeo" strap Express a coordinate system of ExFact VR (Not for sale)





Slir

- A series of slice images to PDF file
- Outstanding readability and compatibility
- · Keep detailed information even if zoom in cause of holding original resolution



Object from 3D printer

by scissors and assemble it.



Rotate and/or clip animation and possible to produce as a conventional movie file

- · MPEG1 format output, has both merit of reproducible compatibility and quality
- Attach and play on MS PowerPoint





VR-VR Technology

It is our original technology that archive huge 3D images data in compact package and distribute to third party easily







The 26th awards for excellent new technologies & products by small & medium enterprises

Our original technology 'Virtual Realistic Volume Rendering (* Virtual Reality)

Send 3D data to client in advance and want use it at meeting or presentation

Want to offer 3D data to customer which is demanded taking by X-ray CT-Common · In that case, don't know where and how to observe data

- Want to observe data without deep knowledge or exclusive software...
- · Want to reduce time and man power of software processing work…

Important theme X-rays CT! various samples QA/RD section of company, laboratory

Public facilities, show room and etc.

Three main merits of VR-VR technology

1 Whoever, Wherever, Simply

· Anyone observe and play 3D data easily without expensive complicated software

2 High Speed, High Quality, Interactive Operation

Observe and operate high quality VR-VRdata interactively.

③ All data to a compact package

· A huge full set of image data to a compact format and redistribute it.

The technology that observes CT data freely and redistribute is necessary!

To various partners

Co-worker/boss, other posts (design/production section), a business partner, a client of requesting CT data, co-researcher

The same principle

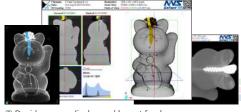
To various places

demand

Observe on PC of one's desk apart from a device, at meeting or presentation

The flow of VR-VR technology process

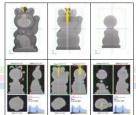
① Import 3D data set on ExFact VR



- ② Decide screen display and layout freely
- 3 Easy to set color and contrast

Large capacity disk is necessary cause of producing intermediate files Approximately around 5-10GB is required It will be deleted after processed.

4 Render quickly a large quantity 5 Encode (compress) high of 2D/3D images automatically



quality data in compact size Making movie at here is called VRVR format particularly.



VRVR file CTnekoVRVR.mov

⑥ Play and operate on Apple QuickTime Player 7







It depends on data size and resolution though; PC is not required to play. Manual for output of VRVR file size is about 10s - 100s MB how to play on before Windows 2000 and which can copy USB drive or CD-R. This format Macintosh is prepared in English, Chinese, Japanese and Korean

Option (sold separately) Void/Particle analysis option module

Extract internal defect and particle of 3D images automatically from the data kind of casting product or the resin Visualize by displaying in color. Of course the result

can be produced as VRVR



Image Instrumentation option module

This new function enables you to approximate brightness distribution to normal distribution, and to evaluate and analyze data. This unique



function also enables you to bring data using threshold setting and coloring function into statistical analysis related to all volume data, which used to be done inaccurately

Hold software training course regularly every month at our company (Shinjuku, Tokyo)

Our experienced engineer lectures actual technique of using software carefully. Not only training but also you will learn knowledge about X-rays CT, general imaging processing technique, reverse engineering and etc. We try to help you to use at work promptly after training.



In processing, can do other jobs are possible. **Working Environment**

Processing time is vary depends on PC

specification. In general, it takes about

10 - 20 minutes per VRVR file.

- Support multiprocessor/multi-core CPU
- Recommended the CPU after Sandy Bridge of Intel which supports the AVX Instruction Set (second generation Core processor) Support most of the PCs released since 2011
- The graphic card which support 3D and OpenGL performance and has independent GPU and video memory is required such as NVIDIA GeForce, Quadro series
- If work on notebook PC, required high performance for above reason
- Windows 7, 8 Edition 64bit
- Recommended several-fold memory (RAM) of total data size Required 8GB on 64bit minimum
- High resolution monitor, UXGA (1600 \times 1200 pixels) required
- Recommended full HD (1920 × 1080pixels), support multi monito
- Required install QuickTime 7
- Work on QuickTime Pro also OK (not free)
- USB port (protection module connection use)

OuickTime is technology of Apple Inc

Windows

- Program works with connected protect module called dongle to USB
- · Use software on any PC if dongle is connected
- Not necessary to install dongle driver
- Part of dongle memory area recognized as drive; software installer and sample data are included

holds several thousand of images in general. 64bit Workstation

We also offer desktop PC which optimized for the software. By customer request, sell the software and PC as set.

Display outstanding quality for grayscale rendering Grade 2 monitor for medical imaging











High end video card support high ·Built in SSD (RAID0) support fast

read/write intermediate files ·Three years guarantee (in Japan only)

IMAGinE PC Vintage is trade mark of customized PC. It is produced by cooperation of our company and Japan Computing System Inc.





Specification and release time may change without notice. Company and product name are registration of trademark.



Beyond Software Technology ソフトウェアのその先に



