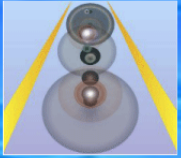Water Column Data Processing Software
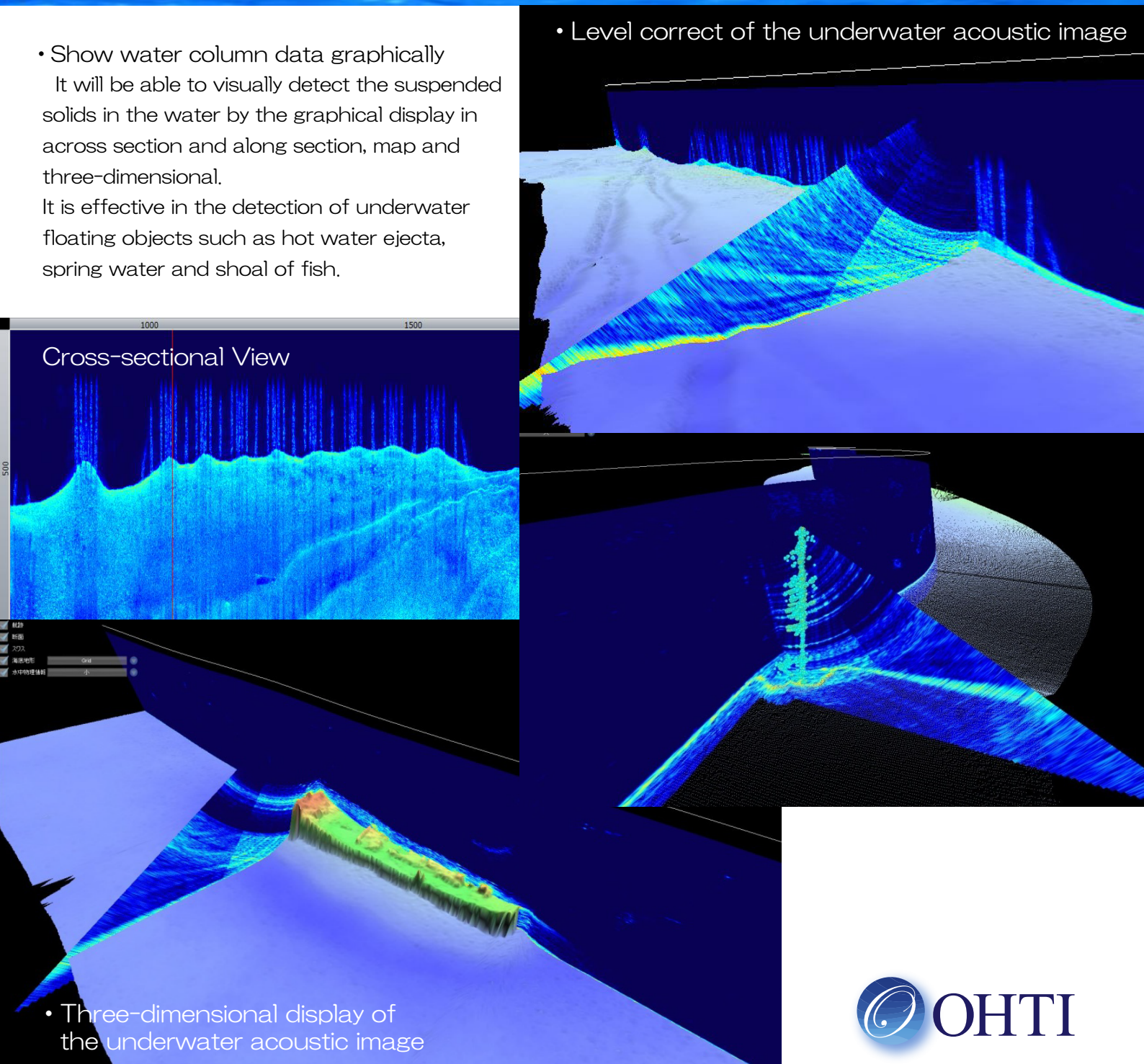
SoundingDiver6

This software can display graphically water column information acquired by a multi-narrow beam echo sounder.

• Level correct of the underwater acoustic image

• Show water column data graphically
  It will be able to visually detect the suspended solids in the water by the graphical display in across section and along section, map and three-dimensional.
It is effective in the detection of underwater floating objects such as hot water ejecta, spring water and shoal of fish.

Cross-sectional View

• Three-dimensional display of the underwater acoustic image

OHTI

SoundingDiver6

Main features of SoundingDiver6

New — **Reading of external files**
The position information and SVP information can be read from an external file, and corrected.

Display underwater acoustic image graphically
Display graphically underwater acoustic image created from acquisition files
- Swath image
- Cross-sectional image
- Track, shaded relief image
- Three-dimensional image

Free adjustment of image level, number of beams, range, water depth width for the underwater acoustic image
It's possible to set the range of the display beam.

Position indication
It's possible to measure the location in the underwater acoustic image.

Simple 3-dimensional display
Display 3-dimensional underwater acoustic image, overlaid on track and bathymetric data.

Extraction of underwater physical information
Display 3-dimensional preview of extracted underwater physical information.

Noise removal of underwater physical information
It's possible to remove noise in the underwater physical information by an eraser tool.

Batch output of underwater acoustic image
By using setting of a display, you can batch output the underwater acoustic image from multiple files,

Video output of underwater acoustic image
Continuous Swath cross section video can be created by using one Swath underwater acoustic image as one flame.
⇒This video can be played 3-dimensionally by our Visual3DX-6.

Input/output data

	File Format	File Type
Input data	ASD	Hydro sweep acquisition files
	ACF	
	ALL	EM series acquisition files
	WCD	
	Ping3D	Acquisition files for SoundingDiver3
Output data	Bitmap	Swath image/Cross-sectional image/Wake image/Three-dimensional iBitmapmage
	CSV	Water physical information
	AVI	Continuous cross section video of underwater acoustic image

Operating environment

PC	OS	Windows7 SP1, or later (64bit)
	CPU	Intel Core i7 2600K, or more
	Memory	8 GB, or more
	Hard Disk	50 GB, or more
	Graphic board	GeForce GT610 or Radeon HD6450, or more
	Peripherals	CD-ROM, keyboard, mouse
Screen	Resolution	1280 × 1024, or higher
	number of colors	True Color 32 bits, or more