Digital Recording Box

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BIOBSERVE Usability

Synchronized recording of VGA, Video and Audio Signals

If you want to record any kind of VGA signal (computer monitor, radar, PDAs, consoles) in the best possible quality, the Digital Recording Box is the right tool to do that. In addition to a VGA signal, you can record video, audio and other signals perfectly synchronized.
The DRB is a stand alone device that can be controled remotely and can be used to record any kind of training and simulation scenario or can run as a documentation tool 24 hours a day.
No software installation is required on the device you want to record.
All VGA and video signals are recorded in the original spatial resolution.

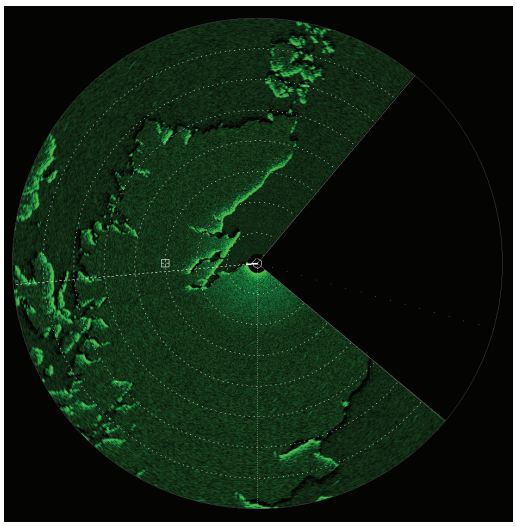
Some features of the DRB:
- Lossless VGA recording
- Records any kind of VGA signal
- Video and audio recording
- Multiple source recording
- No software installation
- Stand alone device
- Remote control and access
- Developer tools available
- 24/7 recording
- Mission analysis & debriefing
- Training, simulation & documentation
- Highly customizable

The Digital Recording Box is a high-quality device that offers best quality and great flexibility.

All kinds of signals can be recorded (VGA, video, audio, analog and digital streams)
All kinds of camera models (analog, digital, USB, IP) can be connected and recorded.
Perfect synchronization of the recorded signals
No limitation in the number of signals (several DRB can be used and synced if required)
Large storage capacity, easily expandable
No software installation on the recorded device required
Software Development Kits available

With the available developer tools the recorder can be integrated in complex systems and installations, taking care of all recording and documentation tasks.

In combination with our 'Spectator' software for behavioral observation, this system can be used to acquire and analyze observational data of the simulation participants, measure and rate success and efficiency, analyze behavioral patterns, compare the behavior of different participants, train people for certain tasks and analyze the success of the training.



Product information

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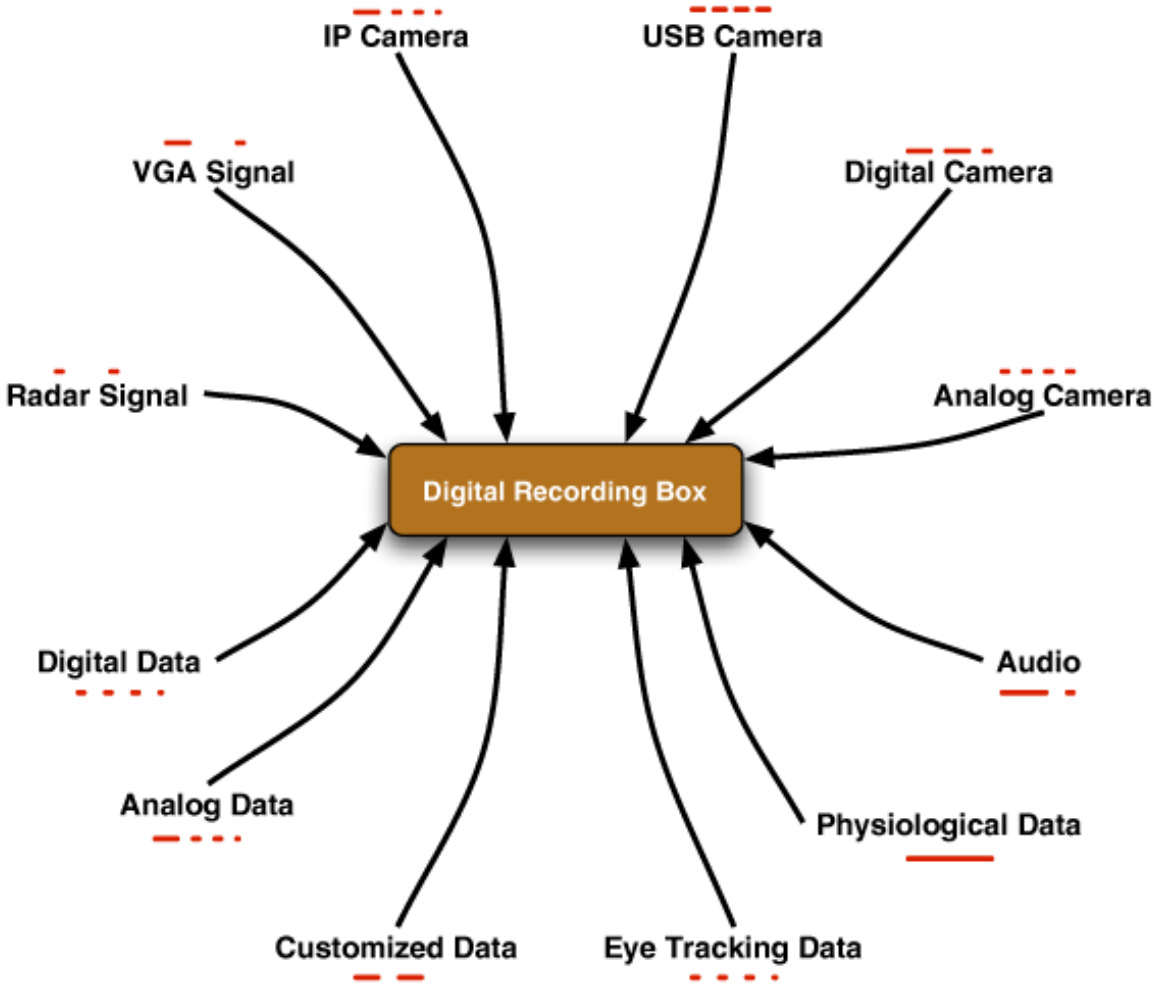
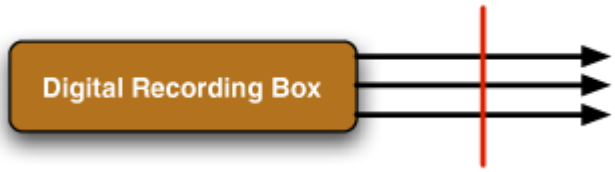
Recording



During the recording, all signals with their different timing, are recorded and synchronized in separate files. Of course it is also possible to assign for example the audio to a certain video stream and save the audio stream in this video file.

Playback



All recorded data are played in sync. After the recording, the files can be automatically transferred to other computers or network storage devices for debriefing procedures.

Developer Resources

If you want to integrate the DRB in your own systems and applications, you can use different Software Development Kits we provide.

All SDKs are delivered with a manual and examples with source code.

Basic SDK

Is delivered as a DLL that gives you full access to the DRB. You can use any computer language that can use dlls, like Visual C++, Visual Basic, Delphi , C++ Builder etc..

Sample functions overview:

Initialize DRB
GetlistofallDRBs
Start recording
Stop recording
Pause recording
Copy files
Delete files
Shutdownsystem
StartSystem
Getlistofallrecordings
Showpreview
Stoppreview, etc...

Borland SDK

Delivered as a component that gives you full access to the DRB. You can use any the Borland compilers for Delphi (>6) and C++ Builder, BDS 2005, BDS 2006. This SDK contains the same functionality like the Basic SDK.

.NET SDK

You can use Visual Studio 2005. This SDK contains the same functionality like the Basic SDK.

Java SDK

This SDK contains the same functionality like the Basic SDK

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Technical Specifications of the Digital Recording Box

Connections	Analog, DVI and HDMI monitor signals Audio-in Analog data input Digital data input *Video:* RCA male FireWire (IEEE 1394) USB TCP/IP network camera and audio streams
Video Codecs	DivX (MPEG4) MJPEG (scalable and lossless) Other codecs on request
Video Bit Rates	Freely definable
Key Frames	Freely definable
Color Depth	Up to 16 bits per pixel
Recording Resolutions	up to 2560 x 1600 pixels
Frame Rates	Definable for each single signal, up to 60 fps
Signals per recorder	Depending on the recorded resolutions, frame rates and quality levels. Only depending on the hardware, no software limitations concerning the number of signals that can be recorded with one machine.
Alarms	Freezing Bluescreen Crash SNMP protocol support
Available cases	Standard mini tower 19" rack (4U) Small Shuttle® PC

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