

ReDAT

ReDAT DVI/DP Box

Special hardware device designed to support data communication recording on DVI-D, DP, USB devices (so-called HID channels), including spatial/ambient microphones.

PRINCIPLE OF OPERATION

The captured signal on the hardware device is compressed and sent to the selected ReDAT recording device. In addition to the captured video signal, both types of devices can also record audio input from an ambient microphone and two USB devices, the so-called HID channels, which include mouse, keyboard and touch screen.

When monitoring HID channels, events such as: keystrokes on the keyboard, direction and intensity of movement, clicking or scrolling of the mouse or touching the touchscreen screen and others are recorded.

Recordings from spatial or directional microphones can serve as a supplement to recordings from other technologies and help to document and evaluate critical situations. The microphone recording mode is either permanent or the switching is set when the voice activity level (VOX) is reached. The extent of the recorded space can be influenced by a combination of the set level on the desired input and the directional characteristics of the microphone used. Microphones with an XLR type connector are used for recording.

The software of the boxes completes the identification of the event and sends it back to the ReDAT recording device for processing.

In the event of a power failure from external adapters, the passage of the DVI-D or DP signal to the monitor can be ensured by an emergency power supply from the USB interface, the so-called Fail Safe Video Bypass.

KEY FEATURES

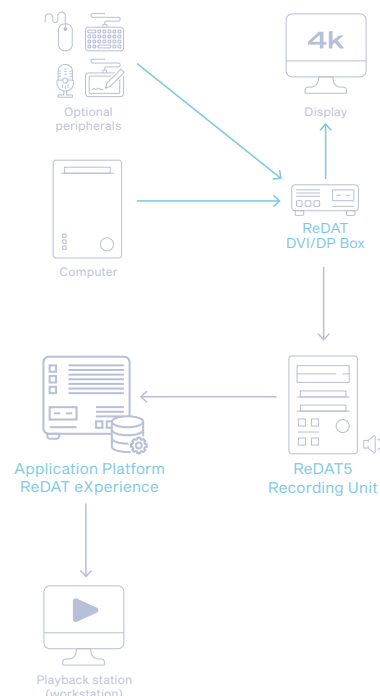
- Non-intrusive recording.
- True lossless compression.
- NTP time synchronization support.
- Dual power support.
- Dual redundant LAN communication.

AREAS OF USE

- Dispatch consoles.
- Air traffic control console.
- Voice controlled consoles.



	ReDAT DP BOX	ReDAT DVI BOX
Audio	A-law 128kbit/s (16kHz) XLR connector for connecting a microphone (phantom power 48V)	
Network interface	2x RJ45 Ethernet 10/100/1000Mbit/s (IPv4/IPv6)	
Dimensions	height: 89mm, width: 165mm, depth: 180mm, weight: 1.5kg	
Video	4096x2160, 3840x2160, 2048x2160, 2048x2048, 2560x1600, 2560x1440, 1920x1200, 1920x1080, 1600x1200, 1280x1024. 10FPS processing at maximum resolution	2560x1600, 2048x2160, 2048x2048. 7FPS processing at maximum resolution
Inputs/outputs for HID	2x USB 2.0, A-B	
Power supply	2x Un=12V, I _{max} <1.5A, P<19W	
Environment	Operating temperature: 0° to +40° C Storage temperature: -10° to +60° C	Operating temperature: 0° to +50° C Storage temperature: -10° to +60° C



ReDAT Recording Systems, a business division of RETIA, a.s., which provides a sophisticated system for recording voice, screen and other relevant data. The system automatically analyzes the data to make it available to system users in a clear and structured way.

RETIA, a.s. is a Czech company based in Pardubice, founded in 1993. It develops, manufactures and modernizes radars, command and control systems, UWB localization and communication systems and ReDAT Recording Systems.