



Reckeen 3D and Reckeen Lite technical specification. There are two version of system SDI or HDMI.

Video input		Video output	
Reckeen SDI Virtual Studio System SDI Video Input 2 x SDI – 3G/HD/SD auto switching HDMI 2 x HDMI 1.4 type A connector with support for 1080p60 one up to 4k* 30 Monitor output	Reckeen HDMI Virtual Studio System HDMI 4xHDMI 1,4 type A connector with support for 1080p60 two up to 4k* 30p 	Reckeen SDI Virtual Studio System • SDI Video Output • 2 x SDI - 3G/HD • HDMI • 2 x HDMI 1.4 type A connector with support for 1080p60 one up to 4k* 30p Auclio input	Reckeen HDMI Virtual Studio System HDMI 2 x HDMI 1.4 type A connector with support for 1080p60 one up to 4k* 30p
2x DP output for monitor 2x HDMI output for monitor 1x DVI-D output for monitor I/ □ port Tally Output TL - DB9 - 4 channels Reckeen External Keyboard port RS - DB9 - RS 232	 PC/2 PC keyboard USB 2 x USB 3.0 (front panel) 4 x USB 3.0 (back panel) 1 x USB 3.1 (back panel) 	Digital embedded stereo on each SDI and HDMI	 Analog 2 x XLR two channels – professional balanced analogue audio stereo differential input (-10dBV, or 4dBu) 2 x Jack 6,3mm two channels – professional balanced analogue audio stereo differential input (-10dBV, or 4dBu) Two types of microphones – dynamic and condenser with + 48V phantom
Reckeen External Audio port LAN – Audio Link Ethernet Gigabit Ethernet LAN		Video formats Reckeen SDI Virtual Studio System • Input	Reckeen HDMI Virtual Studio System
Audio output • Digital • embedded stereo on each SDI and HDMI	 Analog 2 x XLR two channels – professional balanced analogue audio stereo differential input (-10dBV, or 4dBu) 2 x Jack 6,3mm two channels – professional balanced analogue audio stereo differential input (-10dBV, or 4dBu) 1 x Jack 6,3mm – stereo Headphone output 	 2 x HDMI v1.4, 2 x SDI 2160p 30/25* on one HDMI 1080p 60/59.94/50/30/29.97/25 1080i 60/59.94/50 720p 60/59.94/50 PAL, NTSC Output 2 x HDMI v1.4, 2 x SDI 2160p 30/25* on one HDMI 1080p 60/59.94/50/30/29.97/25 1080i 60/59.94/50 720p 60/59.94/50 	 4 x HDMI v1.4 2160p 30/25* on two HDMI 1080p 60/59.94/50/30/29.97/25 1080i 60/59.94/50 720p 60/59.94/50 PAL, NTSC Output 2 x HDMI v1.4 2160p 30/25* on one HDMI 1080p 60/59.94/50 1080p 60/59.94/50 720p 60/59.94/50
Video standards		Features	
Reckeen SDI Virtual Studio System • SDI • SMPTE-425M • 1080p (60/59.94/50/30/25) • SMPTE-292M • 1080i (60/59.94/50) • SMPTE-296M • 720p (60/59.94/50) • SMPTE-259M • PAL, NTSC • HDMI • Video standard – HDMI spec 1.4*	Reckeen HDMI Virtual Studio System HDMI Video standard – HDMI spec 1.4*	 Downstream Key - x2 Media Format MPEG2, MPEG4 and H.264 containers: (avi, mpg, mpeg, mp4, mxf, mov) Audio: WAV, MP3 Video Capture Format H.264 (.mp4) MPEG-2 (.mpg) 1080p 60/59.94/50/30/29.97/25 1080i 60/59.94/50 720p 60/59.94/50 H.264 up to 4k* 30p 	 Still Picture - x2 Picture Format .png. jpg. bmp Still Text - x2 Still Editor included Keyer - x4 Chroma Key / Luminance Key Streaming Facebook YouTube NicoNico Ustream NDI and custom profiles
NDI input: 4 input interchangeably as cam 1 to cam 4 with supported stream key or Reckeen chroma key 2 input interchangeably as media 1 and 2 NDI® is a trademark of NewTek, Inc	NDI output:	Software	
	program out	Reckeen 3D package: 3D Production 3D Studio Editor Wizard MS 3D Paint Still Editor	 Reckeen Lite package: Lite Production VSM Lite Editor (also as a standalone version) Still Editor

* Reckeen LITE studio supports Full HD resolution. By purchasing additional License Key, You can upgrade it to 3D Studio & LITE with 4K resolution

For more information please visit our website at: www.reckeen.com Contact us: sales@reckeen.com



recke

PERFECT BROADCASTING AND BEGINNERS



Reckeen 3D and **Reckeen Lite**

Perfect broadcasting solutions for professionals and beginners.

Reckeen 3D system enables you to produce professional TV programs in realtime. It is a multi-channel mixer that combines 4 video sources with computer graphics and media. Each of these video sources can be preprocessed with builtin chromatic keys and then placed in a virtual 3D scene, thus creating a virtual studio or an advanced composition combining computer graphics and video.

The system allows you to work in two independent modes - Reckeen 3D and Reckeen Lite - enabling you to customize the production process to suit your needs.

RECKEEN 3D Studio is actually 9 in 1!

RECKEEN 3D Studio is a complete set of tools and functionalities to create, record and broadcast the high-quality 3D video content.

- Virtual Studio
- Mixer
- Still Editor captions and graphics boards generator
- Wizard Studio Editor stage design editor
- 3D Studio Editor
- MS 3D Paint Editor
- Recorder
- Streamer
- Reckeen LITE system the platform's simpler version for quick tasks and for the beginners

3D Production

RECKEEN 3D Studio is a PC based system with an option of importing files in OBJ and FBX formats and objects from its own editors.

Up to two 4K camcordes or up to four Full HD (4x HDMI or 2x HDMI and 2x SDI - depending on the version) can be connected to the Reckeen workstation, their signals will be keyed independently in a high quality. This means, in your virtual studio you can get up to four talent shots taken by four cameras in different locations. In addition, you have four virtual cameras with full range of motion available: pan, tilt, zoom, dolly, truck, arc, pedestal, cant and so on. Their positioning and switching between them reflects the cameraman's natural movements. Up to 15 shots can be assigned to each of the cameras. By default, they are set by the virtual studio designer and defined in the project, but you can customize them to fit your needs. Controlling virtual cameras is easy and convenient thanks to the specially designed VKey-100 keyboard

with joystick.



With RECKEEN 3D you get a ready-made designs package, but 3D Studio Editor and Wizard are also its integral parts, with their use you can prepare your very own designs, with supplied materials or starting from scratch, after your own ideas. The Wizard allows you to create stage designs quickly and efficiently on the basis of ready-made elements, while in the 3D Studio Editor you can

> Advanced features of the Studio Editor Wizard also allow you to design virtual 3D scenographies tailored to your individual needs and ideas. All you need is a short tutorial to be easily able to set the ambience of the studio, its size, textures to be used, colors, and

equipment. You can implement unlimited number of ideas, and your video materials will always have a unique setting.

The Still Editor module allows you to create captions, text boards and news tickers. With an easy-to-use panel, suitable

components can be downloaded from external files or created - even during the production and live editing.

You can create 3D objects you want to place in the virtual studio scenography in MS Paint 3D editor, that you get preinstalled with RECKEEN 3D Studio. The application allows you to implement all the ideas, from the most original and crazy ones to the simplest ones, like three-dimensional subtitles. And all those created objects can be easily and intuitively moved to a virtual studio,