



Reckeen 3DSPRO X8 technical specifications

Video input

SDI SDI Video Input

4 x 3G - 3G/HD/SD auto switching

• 3G,12G - 4 x 3G SDI and 2 x 12G SDI

Monitor output

 3 x DP output for monitor • 1 x HDMI output for monitor - - The number of HDMI/DP outputs dene

HDMI

HDMI

I/O port

- Tally Output
- TL DB26 4 channels
- · Reckeen External Keyboard port RS - DB9 - RS 232 and RS422
- Reckeen External Audio port
- RJ45 Audio Link
- AQUANTIA® / Marvell 10G LAN
- Intel® Gigabit LAN Intel® Wi-Fi 6 802.11ax (2.4Gbps) + BT 5.0
- USB

• 2 x HDMI 2.0 type A connector with

support for 1080p60 up to 4k 60p

- 2 x USB 3.0 (front panel)
- 2 x USB 3.2 Gen2 Type-C
- 6 x USB 3.2 Gen1
- 2 Intel® Thunderbolt™ 3 Type-C Reference input - (Genlock)

Black Burst or Tri-Sync

Audio output - ADB 100

- Digital
- embedded stereo on each SDI and HDMI
- 2 x AES/EBU

Analog

- 4 x XLR two channels professional balanced analogue audio stereo differential input (-10dBV, or 4dBu)
- 1 x Jack 6.3mm stereo Headphone output

Video standards

SDI

- SDI • SMPTE2082-1
- · 2160p (60/59.94/50/30/25)
- SMPTE-425M
- 1080p (60/59.94/50/30/25)SMPTE-292M
- 1080p (30/29.97/25)
- SMPTE-296M
- SMPTE-259M
- PAL. NTSC

NDI

- 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

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· NDI output:

Video standard – HDMI spec 2.0

HDMI HDMI

- Video standard HDMI spec 1.4

Video Capture Format

- 1080i 60/59.94/50

- H.264 up to 4k 30p and 60p

Software*

- · Reckeen 3D package :
- · 3D Studio Editor
- 3D Wizard MS 3D Paint
- Still Editor
- · VSM Lite Editor (also as a standalone
- Still Editor



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



Video output

- SDI Video Output
- 8 x SDI 3G/HD 8 x SDI = 3G/HD
 3G,12G = 6x3G/HD and 2x12G ⁷4k 60p.

Audio input - ADB 100

- embedded stereo on each SDI and HDMI
- 2 x AES/EBU

Analog

HDMI

HDMI

HDMI

2160p60

2 x HDMI 2.0

PAI_NTSC

2 x HDMI 2.0

Still Picture – x2

· .png, .jpg, .bmp

Still Editor included

· Chroma Key / Luminance Key

SmartKey with 4 SDI outputs

Picture Format

Still Text - x2

Kever – x4

Streaming

YouTube

NicoNico

NDI and Skype

· and custom profiles

Output

· 1080i 60/59.94/50

• 720p 60/59.94/50

· 2160p 60/30/29.97/25

· 1080i 60/59.94/50

720p 60/59.94/50

1080p 60/59.94/50/30/29.97/25

4 x XLR two channels - professional balanced analogue audio stereo differential input (-10dBV, or 4dBu)

Two types of microphones - dynamic

• 21/60p 60/59.94/50/30/29.97/25

1080p 60/59.94/50/30/29.97/25

denser with + 48V phantom

2 x HDMI 2.0 type A support for

Video formats

SDI

- Input auto switching 2 x SDI 12G
- 2160p 60/59.94/50/30/29.97
- · 1080p 60/59.94/50/30/29.9
- · 1080i 60/59.94/50 720n 60/59 94/50
- · PAL, NTSC
- Output • 2 x SDI 12G
- 2160p 60/59.94/50/30/29.97/25
- 6 x SDI 3G
- 1080p 60/59.94/50/30/29.97/25 · 1080i 60/59.94/50
- 720p 60/59.94/50
- · PAI NTSC

Features

- Downstream Key x2
- MPEG2. MPEG4 and H.264 containers:
- (avi, mpg, mpeg, mp4, mxf, mov) Audio: WAV, MP3

- H.264 (.mp4) MPEG-2 (.mpg)
- 1080p 60/59.94/50/30/29.97/25
- 720p 60/59.94/50

· Reckeen Lite package:

NDI 5





RECKEEN 3DSPro X8

An advanced 3D virtual studio system with PTZ tracking and Augmented Reali functionality for real-time video productions

RECKEEN 3DPro X8 with optional XR License* are all-rounded products that will cover your broadcasting needs – starting from creating and designing your virtual environment, through producing your video content, to mixing and broadcasting the material in real-time.

Dedicated to creative broadcasters who value versatility, high quality and costeffectiveness. Versatility of Reckeen XR allows to make trackless productions, as well as to utilise PTZ tracking* and Augmented Reality in a single production session.

The system is equipped with virtual cameras, which give you freedom to move around the whole virtual set at any angle without limitations, imitating a camera crane and cameraman's natural movements.

RECKEEN can work as a stand-alone workstation, but also as a supplementary module to other equipment — the system is compatible with other devices such as: switchers, production systems and software, and more. Expand your working environment with possibilities of a 3D system!

Greater immersion into a virtual world means more incredible and extraordinary outcome. Wow your audience with real-time Augmented Reality and Tracking 3D Virtual Studio productions.

Virtual Studio PTZ Tracking

Create even more advanced and dynamic productions thanks to PTZ tracking. Pan-tilt-zoom functionalities gives a presenter the ability to move around a green screen more freely, whilst the image maintains its highest quality by using the camera's optical zoom.

The advanced shadow processor not only generates real-time shadows and reflections of an on-screen talent, but also analyses the depth of the talent in a green studio space, which makes it possible to walk around 3D objects located in the virtual set.

Augmented Reality

Transform a plain view from a camera into a truly immersive space. Improve your viewers' watching experience by adding three-dimensional elements and animations to the physical surrounding.

Blend the real and the virtual worlds together to create live AR productions.

Default content:

- Over 50 ready-to-use sets and scenographies of different styles
- Library of over 700 3D objects
- Library of textures & materials wood, metal, plastic, stone, fabrics, etc. in various colours – to customise any object, wall or floor inside a 3D studio.

System's features:

- Up to 4Kp60 resolution input and output (using provided HDMI and SDI inputs a user can connect: 2x 4Kp60 signal, OR 4x 4Kp30 signal, or 4x FullHD signal.
- 6 NDI inputs and 1 output
- Integration with communicators such as Skype, Zoom (through NDI 5) allowing two-way communication
- Paint 3D
- 4 virtual cameras allowing movements all around a 3D set,
- Preview and Program switcher
- Premium chroma key 4 independent channel
- Source switcher for media and inputs
- Audio mixer & Recorder & Streamer
- 2x DSK (downstream key) layers



CONNECT UP TO 4 INDEPENDENT PTZ



RECKEEN Studio system has 4 PTZ with FreeD tracknig camera inputs. It allows you to have up to two 4K or up to four Full HD camcorders connected to the RECKEEN's workstation. Their signals are keyed independently in a high quality, thanks to four independent high-end chroma key channels.

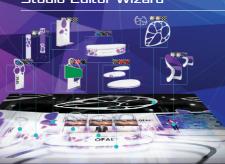


Multiple inputs allow a user to make more complex productions with numerous talents filmed on different greenscreens, and also in different locations – if using an NDI connection

RECKEEN VKey-200 CONTROL PANEL

Control the movements of the PTZ cameras directly from the RECKEEN's application and Reckeen VKey-200 control panel. Program PTZ presets in RECKEEN's Editor or use the joystick on the VKey-200 to smoothly change a camera's position. Everything under your fingertips - one application, one controller, one place to manage the whole production from.

Studio Editor Wizard



With RECKEEN 3DStudio you get a package of over 50 ready-to-use virtual 3D studio designs, that can be used straight away. However, thanks to 3D Studio Editor and Wizard all of them can be customized to your own preference, by modifying

the existing designs using supplied materials. You can also create your very own designs by starting the project entirely from scratch to create a completely unique sets. The Wizard allows you to create stage designs easily and quickly on the basis of ready-made elements in a few steps, while in the 3D Studio Editor you can personalize every detail you want including lights, virtual cameras' setup and talent's position.

