

beyond the magic of virtual sets

Natural Studio Products Solution



A new concept in the field of broadcasting and production that goes beyond the traditional methods of production and editing by means of automation and virtual set design.

The most complete production tool

Natural Tools has developed the answer to the new technological challenges in broadcasting in the form of Natural Studio, an integrated, automated production system for virtual and real sets.

Natural Studio offers you an intuitive solution for every single stage involved in the production of a television program. A specially designed, easy-to-use console covers all the elements required for a typical studio set, including cameras, lenses, switchers, VTRs, titlers and lighting. This single control panel operates them all simultaneously, making screenplaying and production tasks more automated than you could ever have imagined.

The main result of this type of automation and robotization is the simplification of the whole creative process and the optimization of resources, since you will save a considerable amount in set design and "atrezzo" as well as intelligently take advantage of your human and technical resources.

Natural Studio Integral

Natural Studio Integral is a new concept in the overall automation of the production of programs. Conceived to make professional production and broadcast of programs extremely easy, Natural Studio Integral uses the latest technology to become an intuitive tool that is easy, reliable, and standardized beyond traditional methods of production and edition.

Natural Studio Integral allows you to perform a series of operations at an unequalled speed and quality, which until recently was unimaginable. Transitions, sets and virtual screens, graphics, wipes,

special effects, audio, VTR controls, clips library... the program allows you to use real and virtual sets. You can also record on real sets for their posterior use as virtual sets with the compliment of striking graphics, animations, special effects, virtual objects, videowalls... that will help you overcome the creative barrier of traditional set design.

Natural Studio Environment Composer

Natural Tools is committed to developing new systems that complement the possibilities of Natural Studio, like Natural Environment Composer, a tool used for creating and modifying virtual environments.



In summary, all the professional effects that give your production the versatility and originality you are looking for.

Natural Studio LT

Specially designed to produce live, Natural Studio LT combines the latest in automation and remote control with the technology of high quality virtual sets, achieving spectacular results.

With Natural Studio LT you can tackle productions which were once impossible and incorporate new and different content in your programming. Natural Studio LT easily incorporates all kinds of professional effects into the production: transitions, wipes, virtual screens, integrated effects, DVE... allowing you to personalize the image of your programs, giving them a modern, individualized personal touch.

Natural News System

It is a news editing system that makes routine TV news information easier, higher quality, faster, and more precise throughout the whole process.

Maya Plug-in

With Maya you will be able to easily design a virtual set and render it with just one button in order to import the data from your virtual cameras and shots used in Maya into Natural Studio Integral.

Also Internet streaming

Broadcast quality simultaneous output and streaming for Internet.



www.naturalstudio.com
contact@naturalstudio.com



beyond the magic of virtual sets

Natural Studio Products Solution

Technical Features

Natural Studio Integral

Virtual Environments. When you select and load a television program, you are really loading the entire virtual environment that makes up the program: the configuration of the lighting, special effects, graphics, wipes, credits, flashes, clips, audio, masks, etc..

Double monitor user interface. Designed to inform the operator. It is simple and intuitive, keeping you informed at every moment about the possibilities and effects that you have prepared, as well as the status of each event and devices that you have controlled and/or automated.

Control console. Used to exploit the power of Natural Studio to the maximum. By means of this mixing and effects table, the operator interacts with the system simplifying and automating many of the production tasks, increasing the reliability of the system and minimizing the learning and adaptation processes of the system operators or people using the system.

Remote control cameras and shot memorization. Just one operator can move and control all of the parameters for up to 5 cameras: To do so, he or she uses a joystick to control pan/tilt and to control zoom/focus. In addition, with just a push of a button, the camera moves into the selected position, with up to 7 memorized positions for each camera. These positions can be readjusted at anytime.

Headlines, flashes and program intros/outros. Up to 6 headlines, flashes, etc. are stored. All of them have audio and include alpha channel, being able to create transparencies and intro/outro effects with the program's station identification logo in the background.

Link with continuity. Thanks to headlines, flashes, and On-Air mode included, the necessary commands are sent to the automated continuity systems, allowing the live programs to enter and be rebroadcast without a continuity operator.

Transition effects and wipes. They are defined by the user, allowing up to 8 different possibilities for each program, defining each of their parameters: border (size and color), transparency, matrix, repetitions, speed (in fields), etc. Therefore you can receive an external video signal or an embedded video on your virtual screen (including the audio mixing).

Sections per program. Each of these sections stores their own effects, graphics, shots, and flashes. To move from one section to the next it is possible to use any 3D effect or set design movement.

Special effects and graphics. Like logos, advertising banners, time maps, infomercials, sweepstakes, results tables, sports diagrams, etc. There are 6 overall effects that are accessible from whichever shot and another 6 for each one of the shots and cameras available, allowing static diagrams as well as moving diagrams and including audio and alpha channel (transparencies).

Live video. On your set thanks to the virtual screen. An outside source is processed live to adapt it to the size and perspective (DVE 3D option) of the shot where it is being used. To

obtain a clean embedded video and allow screens to use the alpha channel as well as LowSoft and LumaKey to process the borders.

Integrated auxiliary video monitors. The user interface allows you to monitor two signals from external video, for example prior VTR and programming. Thus you have all the information you need in just one look.

Automated titling. By means of just one button with which you can access the titles of the different characters automatically, according to the shot that is on the air. Each title is a graphic made up of text with anti-aliasing, transparencies, drawings, logos, and textures, generated by Inscrber CG (included).

On-Air mode. To ensure the maximum reliability while producing live. When you are On-Air, the system supervises the operator's actions, eliminating mistakes. In addition, this mode allows you to communicate continuously handing over or taking control of the broadcast.

VTRs controller. You can make two VTRs remote, a player and a player/recorder. Thus you will be able to access the rewind, fast forward, stop, play, and pause functions as well as the on-screen time codes instantly. In addition, you can mark specific points from here for intros/outros in order to add clips to your library.

Clips library. Where different in/out points are stored in each one of the VTRs. By just clicking on the VTR it positions itself at the point of input of the said clip, running it by clicking one more time. These clips can be embedded in our virtual screen and/or can be transferred to a full screen by means of one of your wipes. This library is compatible with any VTR or VideoServer, based on cassettes, hard drives, or raids.

Lighting controller. 6 channels included. By means of a standard protocol 0-10V DC you can control the lighting of the set, allowing a different memorized position for each program.

Natural Environment Composer. Included for the creation and modification of virtual environments. With this tool you can update your programs, sets, and special effects easily, even live from any computer on the network.

Webcasting services. By means of Active Video Center and by applying Onion Interactive technology, you can put your television programming on the Internet live, delayed, or multibroadcasted, generating contents, streamings, and high quality pages that are totally automatic.

Plug-in for Maya. By means of this plug-in, the rendering of virtual sets is automated and simplified. With just the push of a button, the files are made that are needed to be directly imported into Natural Environment Composer.

Extra software included. Natural Studio Integral includes Adobe Premiere 5.1 RT, Boris FX 3D (plug-in), and Inscrber CG (plug-in) as tools to make your headlines, flashes, and titles.

Natural Studio LT

Virtual Environments. When a TV program is loaded, what we are really doing is loading the complete virtual environment for the program: special effects, graphics, scenarios, titles, masks, headings, audio, etc.

Control Panel specially designed as a mixer. Here you can control every setting of your production.

Remote Control up to 3 cameras and all their settings: pan, tilt, zoom and focus. Just select the camera and operate it from the control panel's joystick. You also have variable speed on zoom pan and tilt, and double speed on zoom and focus.

Shots presets on every camera. With just one click, the camera seeks for the stored position, adjusting zoom, pan, tilt and focus simultaneously. There are up to 5 presets for each camera that you can reset whenever you need it.

User defined transition and effects, storing up to 8 different presets for each production. It allows you to include an external video signal or the embedded video (including audio) on the virtual screen.

Program's sections. It is possible to define up to 3 different sections or scenarios inside the same program. You can use 3D effects or scenery movements to switch from one to another. Moreover, each section stores its own effects, graphics, frames and flashes.

Live video inside our scenery thanks to a virtual screen. Any external source is processed in real time to adapt it in to the size and point of view (DVE 3D option) of the shot we are using. The alpha channel allows using screens of any size and shape, either translucent or opaque.

Special Effects as graphics, titles, logos, flashes, advertising banners, explosions, weather forecast maps, teleshopping, lotto, sports results, etc. can be easily used. You can design up to 6 effects for each section, with alpha channel and audio, allowing either static or moving graphics.

Automated titling button. You can access to the titles sequences automatically. You can access title sequences generated using Inscrber CG automatically. All title, logos, textures and designs are antialiased.

On-Air mode to ensure maximum reliability on the live production stages. When On-Air, the system supervises the operator's actions to minimize errors.

Component Video Inputs and Outputs Y/C, YUV or SDI, both on PAL, NTSC or 16:9. Thanks to

the Matrox hardware, it admits MPEG 2, DV and MJPEG encoded video and graphics.

Natural Environment Composer included to create and modify virtual environments. You can use it to easily customize your programs, scenarios and special effects, even in live mode and without any dedicated hardware.

Extra Software Included. Natural Studio includes tools as Adobe Premiere 5.1 RT and Boris FX3D (plug-in) to assemble your headings and flashes, as well as Inscrber CG (plug-in) for titling.



Natural tools

an S.G.O. Company

Gran Vía, 86 - Edif. España - Grupo 5 - 2ª - 28013 - Madrid
Tel.: (34) 91 542 79 76 - Fax.: (34) 91 542 70 28
www.naturaltools.com - contact@naturaltools.com