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Dayang Image Co. Ltd.  
IBC Show Release

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### MagicSet Virtual Reality Studio System to be Shown at IBC 2000

Mr. Chris Lee, overseeing the international market department of Dayang Image Co. Ltd., issued an invitation today to the editors of all international trade publications to visit their booth at IBC 2000 to see the new **MagicSet Virtual Reality Studio System**.

Used for news, talk shows, weather and sports coverage, **MagicSet** is especially useful to stations that have small studios, require changeable backgrounds and high production efficiency, but must deal with short post-production schedules.

MagicSet is an all-in-one system, requiring only two operators. It has integrated within a single high-performance Windows NT graphic/image workstation:

Preview Channel Module	Camera Control w/ Parameter Extraction
Ultimatte <sup>®</sup> Chroma Keyer	Active Video Generator and Video Delay
Scene and Mask Generator	Non-linear Capture and Playback
Audio Mixer	High-performance CG System MagicTitle
Internal Switcher	MagicEditor Nonlinear Editing System

In conjunction, Dayang Image Co. will display the **DayangNet AV NLE Network System**, and the **Magic Series CG System**. Dayang Image Co.'s full line of products will be displayed at IBC 2000. (Additional product specs are attached to this release).

Dayang Image Co. Ltd., is the largest and most successful manufacturer of broadcast product in China, with more than 70% market share in China's rapidly growing television station market. At present Dayang Image Co. Ltd., has over 30 net work systems in place with another ten in the works. Dayang also provides services, including, but not limited to, project design, SW and HW manufacturer, installation, and debugging, training and technical support. Their clients include CCTV, BTV (Beijing), C3TV (Korea), Star TV (Hong Kong), etc.

When asked about Dayang's special place in the TV Station market, Mr. Chris Lee stated, "With eleven years experience in manufacturing leading video products, we have been able to reduce pricing enormously without lessening specialized functionality. Our products are specially designed for flexibility, efficiency, stability and can be tailored to our client's specific needs."

To schedule your time for personal interviews with Dayang personnel or for further product information, please contact CJ Flynn at (818) 763- 3625 or [cj@etechintl.com](mailto:cj@etechintl.com) or Herb Schiff at (310) 837- 6460 or [herb@etechintl.com](mailto:herb@etechintl.com)



## *MagicSet Virtual Reality Studio System*

MagicSet is specifically designed for news, talk shows, weather and sports coverage.

Especially useful for programs that have small studios, require changeable background and high production efficiency but are limited to short post-production schedules.

With a user-friendly interface, two operators are enough to handle this powerful, intuitive and easy-to-use system.

### MagicSet Features

#### 1. All-in-One System

The system has integrated:

- Preview Channel Switcher
- High-Performance Chroma Keyer
- Scene and Mask Generator
- Camera Control and Parameter Extraction
- Internal Switcher and Audio Mixer
- Audio Delay
- Non-linear Capture and Playback
- High-performance CG
- MagicEditor Nonlinear Editing System

All the above modules are integrated in one high-performance PC graphic/image workstation thus greatly reducing signal connection and ensuring the best audio/video quality.

#### 2. High performance/price ratio

MagicSet runs on today's low-cost, high-performance visual workstations and a Windows NT operating system. MagicSet has integrated a specialized preview channel, including preview scene generator, preview chroma keyer and preview switcher. Thus, one system can realize the camera switch and preview functions without adding cost.

#### 3. Supports both nonlinear and linear editing method

All the media clips are stored on the A/V hard disk. They can be played in real-time in the video window. Video and audio clips can be synchronized, so the external audio delay is unnecessary. You can also use the MagicEditor non-linear editing system, which is integrated in the system, to do the post-production work.

If you have a traditional studio system, you can record the synchronized program directly onto videotape and then edit with the linear system.

#### 4. Digital interface with non-linear editing and broadcast system

The MagicSet signal can be transmitted to the non-linear editing system, used as the pre-production segment for DayangNet system.

### Additional Features

#### 1. Preview Channel

MagicSet integrates one preview channel in the system. It can automatically switch between the main and preview channel. There is no additional cost for this key feature.

#### 2. Internal High-Performance Chroma Keyer

By use of an internal high-performance chroma keyer, which is supplied by Ultimatte<sup>®</sup>, the most distinguished chroma keyer manufacturer in the world, MagicSet realizes full integration without giving up program quality. Since MagicSet adopts the chroma vector processing technique and creates 8-bit linear chroma key, it can assure the program effect, even for some semitransparent objects such as liquid, smoke and fog.

### 3. Infinite Blue Box and Multilayer Mask

With the advanced function of main-scene creation module, MagicSet can cover the littery scenery (out of blue screen), with the virtual scenery signal, and make your virtual studio as large as you like without regard to the physical limits of your real studio. MagicSet can also create virtual objects, make the actor walk around them as if he was in a real studio.

### 4. Support DayangNet Nonlinear Editing Network System

Seamless join-up with Dayang's NLE Network System, MagicSet avoids signal loss in capture and download. MagicSet also integrates a real-time titling function to make full uses of resources.

### 5. Real-time 3D Playback Window

Graphics generator can provide high-speed clip capture and video texture mapping. Therefore MagicSet system can realize the actual studio's effects.

### 6. Freely Optional and Configurable Camera Tracking System

It guarantees that the MagicSet can extract the highest precision parameter and make the scene accurate and smooth.

### 7. Freely Optional and Configurable Camera Remote Control System

It can effectively reduce the number of studio workers required, decreasing costs and increasing personnel effectiveness.

### 8. Integrated Single Audio Mixer

By use of the NLE mode in capture and playback, the MagicSet system can automatically adjust the synchronization between video and audio clips to realize the audio delay effect without accessional equipment.

### 9. Supports Multiple Modeling Software, such as 3Dmax, Softimage, Alias, etc.

## Technical Specification

#### 1. High-performance 8 bits linear chroma keyer.

Chroma key pick-up function, supporting semitransparent effects.

#### 2. Support high-performance OpenGL graphics processor 80M pixel per second, 2,500,000 triangle with texture.

#### 3. 20 bits high-precision tracking sensor

Pan and tilt precision < 1/10000 degree

Focus precision, 1/1000 mm

Double field frequent capturing speed

System delay: 2 frames

#### 4. Selective and configurable nonlinear boards

Realtime capture / playback of one video and two audio channels

Capture / Playback compression ratio reaches 2:1

No signal loss while playback, capture and keying.

#### 5. All the functional modules adopt Movie2-Bus data bridge and internal data bus

#### 6. All functional modules integrated in one PC graphics/image workstation.

#### 7. Double machine warm-backup, support on-air broadcast and double-channel DVE.



***DayangNet AV NLE Network System*** is a total solution for non-linear editing in the video production and broadcast market. The DayangNet solution shares resources (hard disks, VTRs, etc.) enhances program quality, improve production efficiency and lower overall cost.

The six essential elements to understanding the functionality of the DayangNet system correspond to the process TV editors most commonly use.

In process 1, we have a specialized workstation named MagicUpload. It acquires video data from either camera, VTR or directly from Satellite. The video data is compressed in MagicUpload machine with two compression rates simultaneously, one stream of high-quality data has a compression rate of about 1:3, and one stream of low-quality data has a compression rate of about 1:20. Both streams are sent to the RAID in section 2.

In process 2, there is a Fiber Channel Switch connected with a Hard Disk Tower (or RAID System). Both streams of compressed video data are sent into different directories of the RAID. The pointers to the clips are sent to the Ethernet Server, which is located in section 5. All the editing will use the pointer-information later.

Process 3 has several MagicEditors running on Matrox DigiSuite Boards, the editors can utilize the powerful functions of the MagicEditor to produce high-quality programs. Editors can either select to use the high-quality data or the low-quality data while editing.

Process 4 has several MagicEditor-Soft systems, these are specialized workstations having same features of MagicEditor, but no Matrox DigiSuite Boards needed. Dayang implemented advanced technology for editors to edit with the low-quality data in this section; they can preview all the effects real-time, even including 3D-DVE. With Dayang's special display board, editors can even preview the effects on a video monitor. The storyboard file can be sent to section 6 for broadcasting.

Process 5 is an Ethernet server connected with a 100MB Ethernet Switch; the server is in charge of all the network management. The low-quality data is sent from the FC Switch through 100MB Ethernet Switch to the Software-only editing machines (section 4).

Process 6 is for broadcasting. We have a specialized workstation named MagicPlay. After the editing, the MagicPlay can load the EDL files from the editing workstations and load the high-quality video data from the FC RAID, then output to VTR or uplink to Satellite.



### ***Magic Series Character Generation Systems***

A complete line of entry level to networked dual stream broadcast products.

These products are divided further into to groups:

- Magic Title
- Magic Effects

MagicTitle—32 bit broadcast quality online CG with Dayang's high performance DigiTitle-M graphics board, a powerful PC-based realtime online CG.

MagicEffects—32 bit 3D animation effects CG with Dayang's high-performance DigiTitle-M graphics board.

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