

## ALL-IN-ONE 5000



### Overview:

1. Digital expert system: EFP, webcast, virtual studio, etc.
2. 4 SDI + 2 CVBS+ 2 hard disk material input interfaces.
3. 2 SDI + Analog CVBS + YUV component output interfaces.
4. Virtual studio of optical room and non-sensor camera tracking up to 6 positions.
5. ...

Price:



### Category: ALL-IN-ONE

With the rapid development of information technology and broadcast industry in recent years,, more and more computer-based professional products have replaced traditional devices which are complicated and expensive. Character generator, non-linear system, automation server and virtual studio, all of those indicated a fact that the broadcast industry is now closely combined with computer science. ALL-IN-ONE is a main attraction of these kinds with its highly integrated structure and fantastic but practical functions. Known as the first developer of ALL-IN-ONE series, we are always working on its improvement, optimization and standard setting. We are willing to find dealers within this industry, make more advanced and suitable ALL-IN-ONE products for the clients.



### What is ALL-IN-ONE?

- An entirely new broadcast/IT product category based on PC platform.
- Realize functions such as EFP, virtual studio, character generator, non-linear system, broadcast delay and live webcast in one single machine.
- Unlimited expansion space. Our clients would be able to get more prompt functional upgrades



## True ALL-IN-ONE:

- Best technologies integrated; Varieties of Functions Gathered.
- Imported core hardware, 4:4:2 sample rate.
- I/O channel; All in digital process; No quality lost during transmitting.
- Optimized structure replaces the traditional complex separated device, more efficient & reliable as single machine.
- Practical modules: EFP, virtual studio, character generator, live webcast (stream media distribution)
- Meet all the relevant demands of TV stations, industrial and mining enterprises, military forces, and electrical education centers, show arts companies, video websites etc.
- Capable of running entertainment performances, talk shows, scaled out-door activities, sports match televising, video conferences, online videos, multimedia education online, wedding ceremony recordings etc, in terms of electronic live broadcasting/ recording, virtual studio and live webcasting.
- Advantages based on PC-environment with more entire new modules on schedule
- Invest in it once Returns far more than its price Upgrading in consistence Life-long enjoyments



### A new concept EFP system:

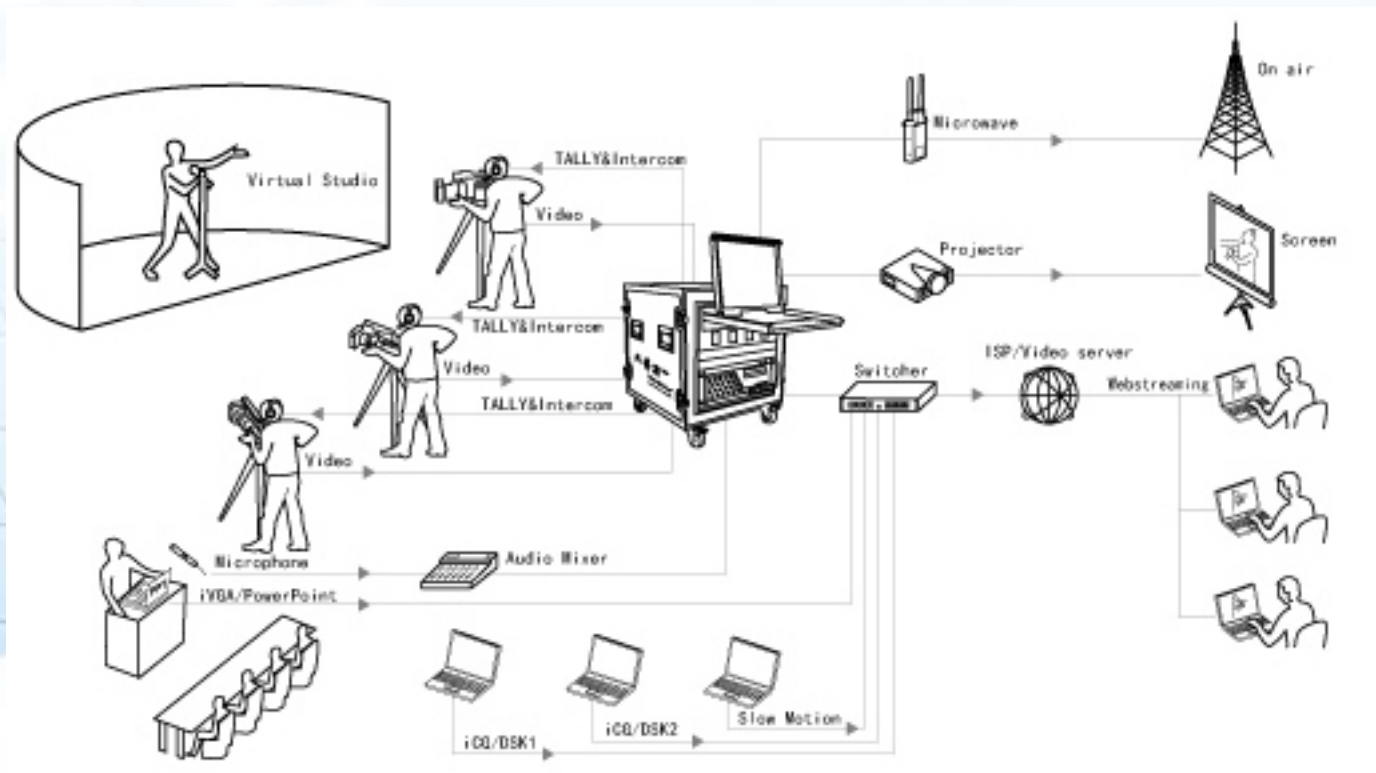
- Industrial leader of the very EFP system based on PC platform, superb functions with unlimited expansion space for continuously upgrading.
- Realize "special effects cut", "audio mixer", "character generator", "hard disk recorder (capture/interval/slow play)", "preview" etc functions in one single machine.
- Support special effects cut up to 6 interfaces (4 SDI +2 CVBS Analog input).
- 2 SDI; 3 CVBS; 1 YUV component output.
- 6 audio balanced channels synced with video signal to achieve real time switch.
- Input video automatic white balance whilst supporting separated color calibration adjustment for every interface.
- BGM on its own, no needs for other audio display devices.
- With built-in time base corrector, all external signals can put in use directly without any other REF signals embed.
- Support delay time fine adjustment for each audio signal, to ensure the synchronous transmission of the sound from each different camera positions.
- i-VGA installed, so as to present PPT in a laptop connected to LAN without VGA/TV converter while running broadcast-grade anti-flickering process.
- Support any screen resolution for PPT presentation and adaptive video safe area display.
- Support all standard teaching materials recording software, lesson materials storage establishments at ease, cannot be better for clients of education industry.
- Real time display of audio input/output UV volume chart.
- Embed varieties of cut effects, enable the clients to expand and modify the special effects database.
- Support freeze frame effect for input video and then run special effect cut with other videos.
- Realize super prospect effect with one single operation, display a channel-specified 3D video cut as screen transition when switching in two channels.
- 6 channel intercom system with internal TALLY lights consoler; Display on-site broadcast status;



Provide reliable camera cutting instructions.

-Single screen preview replaces external monitor (AUX signal), for more convenient using and lower the cost.

-Hot key Ctrl + TAB changes the size of PVW screen, with video input, character preview, backup screen, ongoing screen and delay broadcast screen for all 6 camera positions covered.



Character generator:

- Well-known TOPDIRECTOR brand character generator has graced the program as proved in this past decade.
- Industry leading i-CG technology enables to add characters on-site with separated laptop (character supervisory workstation) through TCP/IP protocol.
- Get rid of the complicated system settings such as BB sync, field phase and key delay etc for the character generator.
- unlimited layers of characters while the context with video signal adjustable.
- Perfectly support the most popular FLASH animation format and enable the clients to download FLASH models.
- Keep the DSK switcher as the traditional way.
- Enable monitoring the character effect whilst DSK being shut.
- Provide keying for 2 separated SDK character inputs, which is only offered in upper-end special effect devices.
- 2 local video outputs support moving videos, completely replaces the functions of hard disk recorder.
- Capture the video input in real time and playback of self-defined speed, meet the needs for sports live broadcasting. (Optional parts)
- Dual video special effects enable the moving PIP and background.
- Field input/output pictures captured in real time as MPEG2 IBP files, no need for other camera devices.
- Whether to add character contents in recorded pictures would be optional in case of original materials strongly recommended.
- Enable to sync all the 6 original channels with backstage recording in case of replace the disabled pictures being necessary in later edit.
- USB interface for external EFP console as to the requirements of traditional users.





## Optical zoom and no sensor linked 6 cameras virtual studio

- Future-oriented leading technology of optical zoom and no sensor camera link.
- All views switch over 6 cameras, display in long or short views of multi-angle.
- Avoid depth of focus error which occasionally occurs in transitional products of standard digital zoom and analog linkage.
- No such complicated mechanic installation or time delay via sensor after being compared with mechanic sensor based virtual studio, lower both the failure rate of the system and the investment cost of clients.
- Abandon the complex 3D production process, emphasize the "studio" in virtual studio, and feel like friendly traditional operation interface.
- Embed chroma key, time-base converter and audio time shift, no demands for other relevant equipments.
- Outstanding chroma engine and excellent software algorithm integrated to realize highly precise chroma-key effect.
- Provide multi-parameters like ALPHA calibration, color calibration, horizontal filtering, vertical filtering, time filtering, and area cutting, etc to correct the chroma-key effect.
- No harsh demands for cameras, lights, blue-box and dress.
- Reflect the very true and natural status like smoke, veil, hair, shadow, etc.
- Open virtual scene base which supports any 3D production software and virtual background of moving materials.
- News parades over virtual TV wall.
- Virtual scene updates in dynamic real time.
- Support character-add plan for ALL-IN-ONE laptop with TCP/IP protocol to replace other unnecessary external devices.
- Save all the pictures as MPEG2 IBP files in hard drive right after they are done with field virtual composition for the use of nonlinear edit, hard drive telecasting and CD copies.
- All the virtual composited programs can be webcasted in the meantime.





## Unlimited transmitting webcast (web streaming) system:

- No need for hardware expansion, live webcast available with standard components.
- Single machine and single operation for booting, enhance the efficiency whilst lower the cost.
- Run real time webcast with ALL-IN-ONE EFP or virtual studio AV output.
- Adapt to any environment: network education, video websites, video conference, IPTV, etc.
- Use Windows standard Media Encoder engine, the end users wouldn't need to install any other plug-in for watch live webcast via internet explorer.
- self-adjust video scan mode to ensure the consistent fluency of pictures.
- Mature multi code stream technology ensures the end users choose the very code stream according to their network conditions.
- Support different ways: pull & push to establish a webcast station.
- Pull: "Pull" the end users to visit ALL-IN-ONE then watching live webcast.
- Push: "Push" the program to a specified webcast stream media server, watching live webcast via server in case of bandwidth limitation.
- Automatically limit the volume of visitors to protect the data flow stability.
- Monitoring and recording significant information in "push" mode such as the visitors' IP address, network port number, etc. ID the end users or setting the visiting authorities.
- Save the pictures as MPEG2 IBP or MS WMV stream media files for later edit or uploading.
- Support 2 channels of DSK for adding characters in real time on-site.
- LOGO, corner mark, clock, copyright information and any character content you may need would be available.



## Safe broadcasting-oriented delay system

- Enable by-pass signal in case of blackout, guarantee your broadcast safety.
- Delay-out device which would be necessary for LIVE broadcasting.
- Non-compression cache maintains the best picture quality.
- Compatible with all the other modules of ALL-IN-ONE: EFP, virtual studio, etc.
- Separate video/audio console so as to recover errors independently.
- Emergency operation would be activated by hot key to replace the delayed pictures with prepared backup-plate material.
- Keep the program contents would be still delayed after it back normal in case of any other emergencies.
- Independent audio silence process set to erase the unexpected voices.
- Adjust the delayed time length at will; Hard-disk recording can be chosen between original version and transmitted version after delayed.
- Preview pictures  
before and after time delay process with internal screen instead of external displayer.



## Sports match slow play system and open nonlinear edit system

- Leading algorithm which can optimize and compensate the D-value instead of simply changing the time duration to realize slow play effect.
- Super slow-motion function takes the place of traditional slow play hard drive recorder.
- Support Multi-camera recordings and playback points marking at will.
- Designed for the sports matches live broadcasting.
- Convenient but practical later edit system which supports a third party nonlinear edit software.
- Support varieties of files so as to be compatible with more 3D composition software.

