AWS-G500 / AWS-G500HD
Live Content Producer

Anycast Station

SONY

www.sonybiz.net/anycast

Anycast Station

Simulated image

AWS-G500 / AWS-G500HD The Live Content Producer

The Anycast Station™ Live Content Producer is a development that combines decades of Sony's AV expertise together with industry-leading IT technology.

Designed as a powerful content creation tool for live event programming, it comprises a high-quality video switcher, an audio mixer, a large LCD display and a streaming encoder and server – all packed into an attaché case-size chassis weighing only about 8 kg (17 lb 10 oz).

To accommodate today's growing needs to integrate video, audio and a variety of PC input sources in live events, the Anycast Station system provides a comprehensive set of AV and IT inputs. Two versions of the Anycast Station system are available: AWS-G500 for SD operations and AWS-G500HD for HD operations. The AWS-G500 provides SD video interfaces including composite, S-Video and RGB as standard, while the AWS-G500HD provides HD interfaces including HD analogue component and HD-SDI. As an option, there are five types of interface modules, which allow users to flexibly establish interface configurations depending on their operational needs.

The Anycast Station system performs the unique processing that allows live switching between these video and computer sources without the use of external line converters and without degrading picture quality.

When it comes to programme delivery, the Anycast Station system is also very flexible. Straight from the Anycast Station system, the user can feed programmes to a TV transmitter for live broadcast, record onto tape, feed the switched programme output directly to large venue displays, store input sources and a PGM output to external hard disk drives and stream the programme on the web on a live or on-demand basis.

With all these unique features, plus a logical design for ultimate ease of use, the Anycast Station AWS-G500 and AWS-G500HD systems are tools that can be used by anyone, anytime and anywhere - for remote television broadcast operations, product promotions, event and live staging, conferences, seminars and distance learning. Just plug in the power cord, turn on the power, and deliver the programme.
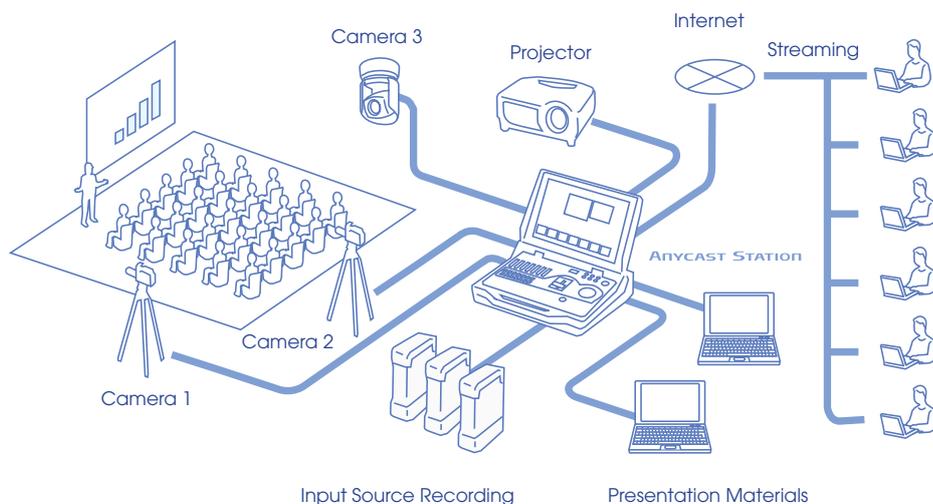
All-in-one design

The Anycast Station system comes equipped with a video switcher, an audio mixer, an LCD display and camera control functions, all packed into a compact attaché case design. This approach eliminates any external wiring and cumbersome signal adjustments, making setup extremely easy and quick. On the large LCD screen, there are two windows for monitoring the programme and preview outputs, together with seven windows to view each individual input source plus one internal still picture source, eliminating the need for multiple video monitors. These factors make the Anycast Station system a powerful device for producing live events, virtually anywhere and with a minimum production crew and setup time. Despite its compact design, each function of the Anycast Station system provides uncompromising power and quality.

1 Video Switcher Provides:

- 1280 x 1024 100-MHz/4:2:2 8-bit processing
- 6 primary inputs plus one still picture source
- 1 ME with 1 keyer including Chroma Keying
- 1 DSK + 1 fixed station logo
- Picture-in-Picture
- 16 wipe patterns

2 Audio Mixer Provides:

- 48 kHz/24-bit processing
- 6 stereo channel input mixing
- 6 channel faders and 1 master fader
- Audio-follow-video

3 Access Buttons

Pressing an access button calls up the control menus of the associated input to the LCD screen. A variety of video and audio parameter settings can be made.

4 Mixer Output Controls

Provides controls for the audio monitor output level, built-in speakers, headphone output, talkback On/Off and dimmer On/Off of an intercom. Also controls the audio signal to be monitored between PGM, AUX1, AUX2, and MIX.

5 On-line Button

Triggers or stops the following functions:
- Streaming distribution
- Recording of input sources or PGM output to compatible hard disk drives
- Recording of PGM output to i.LINK™-compatible VTRs*
- Recording of video-on-demand files of the streaming content

*Not available in HD mode.

6 Menu Operation/Camera Control

General menu selection/settings are made using the menu button and jog roller.
This area also provides control functions for Sony's compatible pan/tilt/zoom cameras. The position controller allows pan/tilt control of Sony's compatible pan/tilt/zoom cameras while the ten keys are for camera position memory store/recall. VISCA™ control is used to provide pan, tilt, zoom, iris, focus and white balance control functions.

7 Device Control

Provides basic and jog/shuttle control functions of external hard disk drives and i.LINK-compatible VTRs used for playing back video material. The jog and shuttle dials are also used for focus and zoom control of Sony's compatible pan/tilt/zoom cameras.

8 Talkback Microphone

Used for talkback purposes. An intercom connector is also provided on the rear panel should the use of an intercom system be preferred.

9 Wireless Keyboard (Turned Over)

Used to create still text for superimposition on the programme output, to type video source names prior to the live event and for setting up IP addresses of the streaming server.

10 Factory Use Connector

Outputs the tally signals to connected devices such as Camera Control Units (CCUs) to light the tally lamp of a camera. Also used to allow PGM and PVW signals to be selected remotely from Sony's RM-BR300, a remote controller for VISCA-compatible pan/tilt/zoom cameras.

11 Memory Stick™ slot

Accepts Memory Stick media to import and export files such as fonts, EDLs, graphics and logo files. Also useful to upgrade the operating software of the Anycast Station system.

12 Operation Screen Connector (RGB (GUI))

Outputs the operation screen (GUI of the Anycast Station system) to an external display* at WXGA size (1,280 x 800), at 60 Hz.

13 Network Connector

Used to connect an external network adaptor or router. 10Base-T and 100Base-TX Ethernet are supported.

14 USB Connectors

Used to connect a USB keyboard or a mouse. Also accept USB flash memories to import or export files such as fonts, EDLs, graphics and logo files, as well as to upgrade the operating software of the Anycast Station system.

A Source Viewer

Displays the thumbnail video of each input source. The windows of the sources selected for PGM out and PVW out are highlighted in red and amber, respectively.

B Streaming Display

Displays the parameters, current server status of the streaming video and URL of the Anycast Station system the user is operating.

C PGM Viewer

Displays the source currently distributed or presented.

D PVW Viewer

Displays the next source selected for output after the transition.

E Effect Display

The currently selected effect pattern is indicated with an effect icon. Effect and DSK transition durations are also displayed.

F Guide Display

Displays guides for controlling Sony's compatible pan/tilt/zoom cameras such as zoom, pan, tilt, focus and iris. Also displays the camera position memory numbers/names of a camera selected on the NEXT button row, as well as the general menu selections and settings.

G Audio Level Display

Displays the audio output levels of PGM, MIX, AUX1 and AUX2.

H Built-in Stereo Speakers

I Key Status Display

Indicates the status (On/Off) of the key.

* Please contact Sony's local office or authorised dealer for information on compatible displays.
** Please contact Sony's local office or authorised dealer for information on compatible keyboards and mice.

Front view

Simulated image

Left Side Panel

Main Features

Easy and integrated operation

The Anycast Station system makes live event programming as simple as possible. This is because the Anycast Station system requires very little or no technical knowledge of switcher and mixer setup and operations, thanks to its extremely intuitive control surface and large LCD display.

With the Anycast Station system, switching between the desired input signals is an extremely easy task. This is because all input sources, as well as the preview and programme outputs, are shown on one large LCD screen - simply select the next desired signal from the NEXT button row and slide the transition fader or hit the Cut button.

The window frames of the input sources chosen for the pro-gramme and preview outputs are highlighted in the same colour as the programme and preview window markers. This gives operators complete comfort that the correct inputs have been selected.
A variety of preset effect patterns are available for source switching transitions as well as for inserting keys.

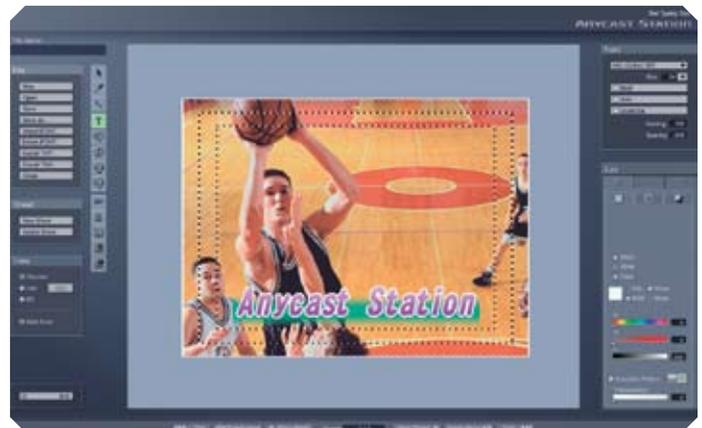On all GUI displays, a choice of 10 languages is provided for maximum ease of use.

Simulated image

Text Typing Tool software

The Anycast Station system comes with Text Typing Tool software, which is controlled via an easy-to-use GUI displayed in full size on the LCD screen.

This GUI can be easily toggled between the main GUI of the Anycast Station system. The Text Typing Tool software allows operators to easily generate still text for superimposition on the programme output using the DSK or keyer. In addition, wipe and dissolve effects can be used for text overlaying. A number of text files can be created and stored in advance for instant re-call during the live event, while it is also possible to install TrueType fonts from third parties.

The Text Typing Tool of the Anycast Station system supports ten languages, as listed below.

Languages available on the GUI display and Text Typing Tool:
❶ English ❷ Chinese (Simplified) ❸ Chinese (Traditional) ❹ French
❺ German ❻ Italian ❼ Japanese ❽ Korean ❾ Portuguese ❿ Spanish

GUI: Text Typing Tool   Simulated image

Camera remote control capability

The Anycast Station system allows operators to easily control one or more compatible pan/tilt/zoom camera at remote locations, since it allows pan and tilt adjustments from its position controller, in addition to iris, focus, and zoom control using the jog and shuttle dials. Sony offers a variety of compatible cameras such as BRC-300, BRC-H700 and BRC-Z700.

Seamless switching between video and PC sources

In live events, there's no telling what types of signal source need to be presented or distributed. With the Anycast Station system this dilemma is a thing of the past. The Anycast Station system allows live switching between a variety of signal sources – from Standard Definition video (analogue composite, S-Video, DV, SD-SDI), High Definition video (HD analogue component, HD-SDI) to PC images with various resolutions. Two important features make this possible – the sophisticated built-in line converters and the high-resolution internal processing. Each input source supplied to the Anycast Station system is up-converted and processed within a 1280 x 1024 progressive domain to allow switching between sources of different resolutions, while keeping picture degradation to a minimum. The programme can be output from a variety of interfaces including analogue composite, S-Video, SD-SDI[1] for video, HD analogue component[2], HD-SDI[3], and D-Sub 15-pin outputs for projectors and plasma displays[4].

1 When using the optional BKAW-580 Serial Digital Interface Module.
2 When using the optional BKAWv-560 HD Video Interface Module.
3 When using the optional BKAW-590 HD-SDI Module.
4 Available output depends on the interface module used.
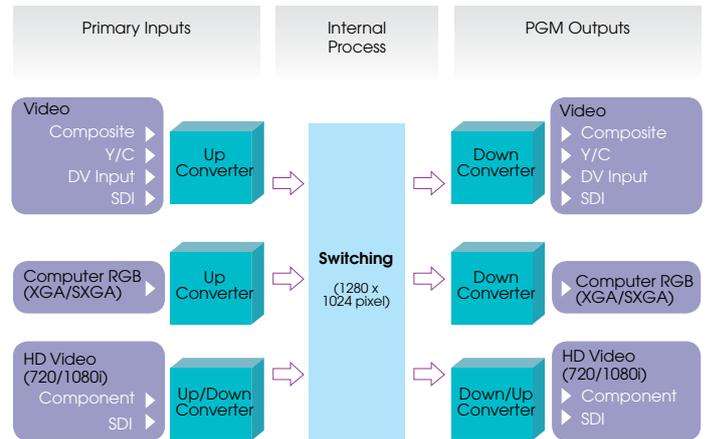
Flexible video input configurations

As standard, the AWS-G500 and AWS-G500HD Anycast Station systems offer the following video and PC inputs. These are provided as interface modules installed in each system's rear panel slots.

AWS-G500
Pre-installed modules:
BKAW-550 PC Video Interface Module x1 BKAW-570 SD Video Interface Module x2
Primary inputs 1 to 4: Composite, S-Video, DV
Primary inputs 5 to 6: RGB (XGA, SXGA, WXGA)

AWS-G500HD
Pre-installed modules:
BKAW-560 HD Video Interface Module x1 BKAW-590 HD SDI Module x1 (one empty slot available)
Primary inputs 1 to 2: HD analogue component
Primary inputs 3 to 4: HD SDI
Primary inputs 5 to 6: Can be extended by installing an optional module

Should a different input configuration be required, a variety of optional interface modules ranging from SD to HD are available, allowing users to configure the system exactly as required. What's more, the Anycast Station system allows each input on these modules to be assigned to any one of the primary inputs via simple menu settings.

Rear Panel Connectors of AWS-G500

Rear Panel Connectors of AWS-G500HD

SD/HD mixed operations

The Anycast Station system can handle SD and HD signals simultaneously, which characterises it as a highly versatile system. For PGM output, three types of aspect ratio (4:3, 16:9 SD and 16:9 HD mode) are provided. For SD/HD mixed operation in 16:9 SD mode, it is possible to record PGM output onto an external HDD connected to the Anycast Station system via the BKAW-570 SD Video Module or BKAW-580 SD-SDI Video Module.

Main Features

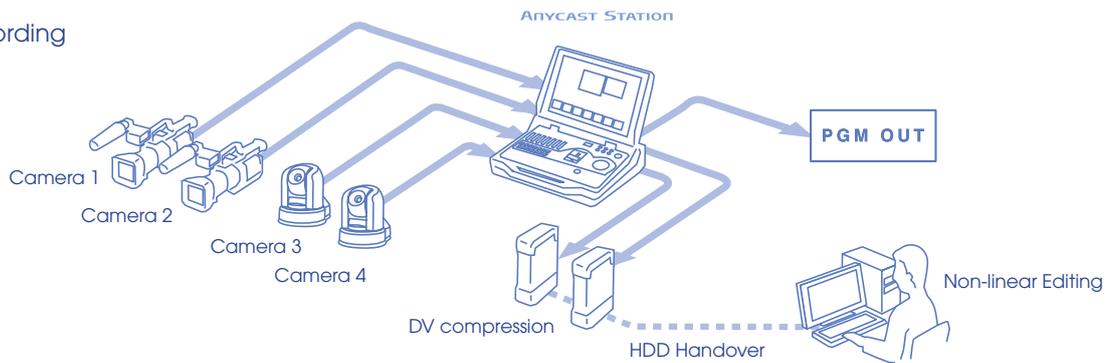## External hard disk drives (HDD) operation

During a live event, the Anycast Station system allows synchronised recording (DV-AVI format) of two primary Standard Definition video input sources to an external third-party hard disk drive* via an IEEE1394 interface. This means that with only two hard disk drives, four primary inputs can be recorded. What's more, the PGM output of the Anycast Station system can also be recorded to them as DV files.

After recording, the DV files can be played back on a PC by connecting the hard disk drives to it, as well as on the Anycast Station system. Loop playback between designated IN and OUT points is possible and six pairs of IN and OUT points can be set for one clip file.

In addition to recording, external HDDs can be used to supply the Anycast Station system with externally-created video sources in the DV-AVI format.

Furthermore, the Anycast Station system has the capability to automatically create an EDL (Edit Decision List) based on its switching information, allowing v users to edit DV files on a PC very efficiently.

Multi-Camera Recording

Anycast Station · Camera 1 · Camera 2 · Camera 3 · Camera 4 · PGM OUT · DV compression · HDD Handover · Non-linear Editing
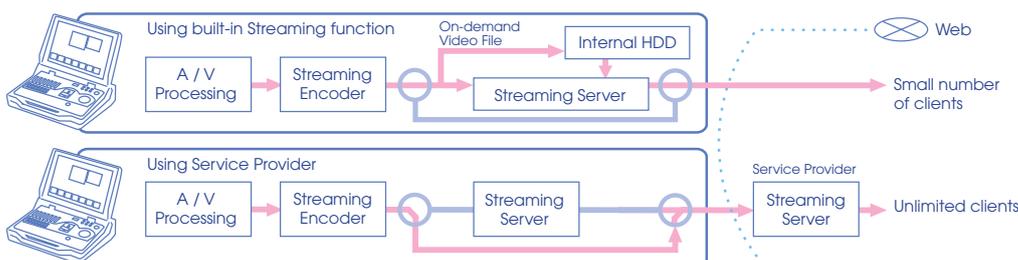
* Please contact Sony's local office or authorised dealer for compatible hard disk drives and their conditions for use in recording of two primary input sources.

Streaming Encoder and Streaming Server – Live and On-demand Video Streaming

The Anycast Station system provides a built-in Streaming Encoder and Streaming Server as a standard feature for live and on-demand video streaming. This function allows the high-quality programme output of the Anycast Station system to be streamed in real-time – with minimum degradation and through very simple procedures – for distribution over the Internet, LANs or leased lines. When the number of clients is relatively small, the built-in Streaming Server function allows the streamed video to be distributed right from the Anycast Station system without the need for an external streaming server connection. Since the built-in Streaming Encoder also allows connection

to external streaming servers, the live event can be widely distributed to hundreds or even thousands of viewers.

The Anycast Station system can also store internally encoded video files on its own hard disk drive and stream them as video-on-demand. This allows a relatively small number of clients to connect directly to the Anycast Station system and view video files when they wish. In addition, the stored video files can also be exported via Memory Stick or USB flash drive to an external server for full-fledged on-demand video streaming to a larger number of clients.

Using built-in Streaming function · On-demand Video File · Internal HDD · A / V Processing · Streaming Encoder · Streaming Server · Web · Small number of clients

Using Service Provider · A / V Processing · Streaming Encoder · Streaming Server · Service Provider Streaming Server · Unlimited clients

Other Features

Device control capability

The i.LINK interface provided on the BKAW-570 SD Video Interface Module enables remote controls of devices connected via the i.LINK connector such as VTRs and camcorders. Controlling the Play and Stop buttons and the Jog/Shuttle dials on the Anycast Station system's control panel provides these respective commands to the connected devices. Up to six cue-up points can be set for one device. Pressing the ONLINE button on the control panel enables a connected recorder device to start and stop recording PGM output.

Connectivity with PC

The i.LINK interface provided on the BKAW-570 SD Video Interface Module also allows PGM output signals to be supplied to external devices as a DV stream. With this capability, the DV stream from the Anycast Station system, for example, can be captured on a PC for later use such as viewing and editing it.

Tally functions and remote selection of PGM/NEXT buttons

The FACTORY USE connector on the side panel gives two convenient functions to the Anycast Station system during live events. From this connector, tally outputs are provided for up to five cameras via their Camera Control Units (CCUs). What's more, when used with Sony's RM-BR300, a remote controller for VISCA-compatible pan/tilt/zoom cameras, selection of PGM and PVW signals on the Anycast Station system is remotely enabled by the signals from the RM-BR300.

Audio-follow-video function

The Audio-follow-video function allows video and audio signals on a same channel to be selected at the same time just by selecting a desired video source on the PGM row.
This is convenient when one operator needs to perform both video switching and audio mixing.

Operation screen (GUI) output to an external display

The operation screen (GUI) of the Anycast Station system can be supplied to an external display* at WXGA size (1,280 x 800), at 60 Hz.

* Please contact Sony's local office or authorised dealer for information on compatible displays.

Video effect snapshots

Effect patterns and settings can be registered as snapshots and instantly recalled when necessary. Up to 54 snapshots can be registered. Another 54 snapshots are available in key mode.

Functions

Video Switcher	
Configuration	6 Primary inputs and 1 Internal Still Picture 1 M/E + 1 Keyer + DSK + LOGO
Video Effect	Mix and 16 patterns of Wipe P in P: 3 patterns (Large, Medium and Small) Fade to Black
Key Source	Keyer: Input Signals or Internal Still Picture DSK: Internal Still Picture LOGO: Internal Still Picture
Key Type	Keyer: Luminance Key / Alpha Channel / Chroma Key DSK: Luminance Key / Alpha Channel LOGO: Luminance Key / Alpha Channel
Internal Still Picture	Matte, Colour Bar (SMPTE/EBU) Import Picture Format: BMP, TIFF, TGA, JPG
Picture Aspect	4 : 3 / 16:9

Audio Mixer	
Configuration	Input: 8 Monaural inputs or DV Stereo Audio Mixing: 6 Stereo Mixing Output: PGM (Stereo) / MIX (Stereo) / AUX1 / AUX2
Input Control	Input Trim: -15dB to +15dB Filter: High Cut 8kHz, Low Cut 100Hz EQ: 3 Band Parametric Equaliser Limiter: 100:1 Compressor: 2:1 Pan Audio-follow-video
Tone Signal	100Hz, 440Hz, 1kHz, 10kHz

Camera Control	
Recommended Camera	BRC-H700 / BRC-300P / BRC-Z700
Max. Controllable cameras	Up to 6 Cameras
Snap Shot Memory	Memory: 6 Items: Pan / Tilt / Zoom / Focus / Iris
Control Tool	NEXT Button / Pointer / Jog Shuttle Dial

Streaming	
Streaming Control	Online Button for starting Streaming
Meta Data Description	Title, Author, Copyright
Movie during preparing broadcast	Sony's Original Movie "Sony Network Tunnel"

Text Typing Tool	
Resolution	1280 x 960 RGB 8 bit
Objects	Text, Line, Background Colour
Modification	Bold, Italic, Underline, Edge Border
Font	Three English True Type Font
Import format	True Type Fonts (.ttf)
Export format	TIFF, TGA
Colour Tool	RGB/HSL Slider type, Colour Picker type
Others	Kerning, Spacing, Centering, Ordering, Safe Area * Please contact Sony's local office or authorised dealer for availability of other langages.

Job Management	
Save/Load	Setup data can be stored on or recalled from a built-in hard disk drive.
Import/Export	Setup data can be exported to or imported from a Memory Stick® media or USB flash memory device.

Applications

A range of features make the Anycast Station system suitable for virtually limitless applications.
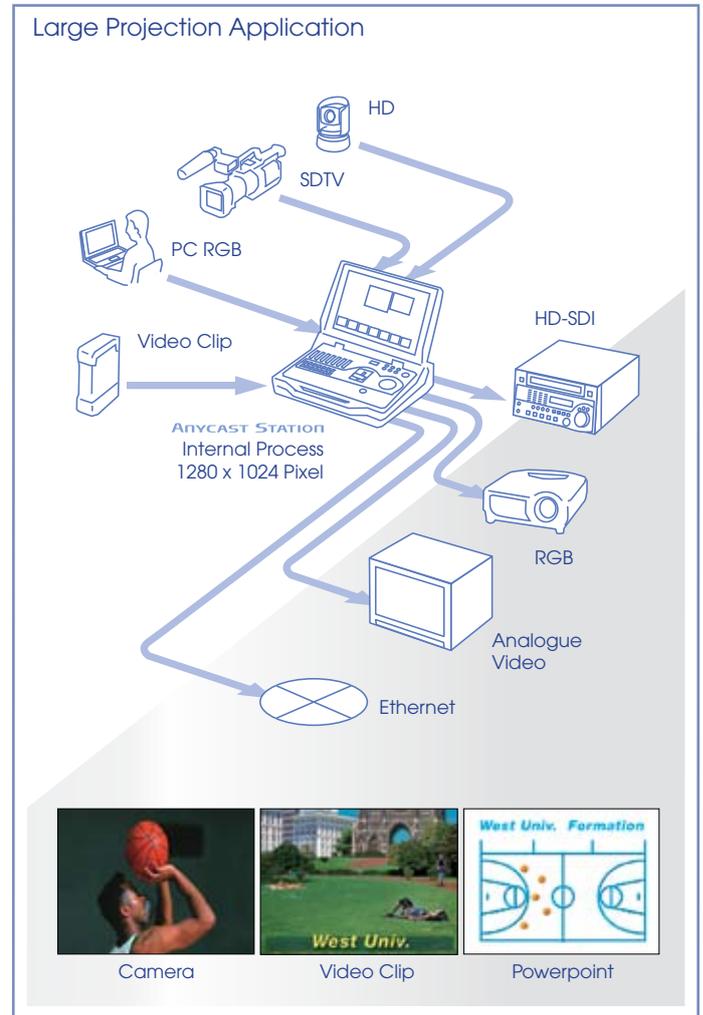
The following are typical examples:
- Product promotion
- Remote television broadcast productions
- Corporate videos
- Event and live staging
- Conferences/seminars
- Distance learning

Example: Large projection application

The Anycast Station system is a convenient live content creation system that allows easy integration of PC images, such as Microsoft PowerPoint® slides and Excel® spreadsheets, into live video programming. The Anycast Station system is designed so that PC image quality and/or video quality are not degraded during source switching, keeping the final programme output quality at its best. Since image quality is important when displaying presentations on large projection systems, the Anycast Station system serves as a powerful tool in such applications. The preview monitor on the LCD screen further assists in selecting the next source to be put on screen, allowing for a very smooth, seamless presentation.

What's more, by preparing video clips to be used in the presentation on third-party hard disk drives, operation of the entire presentation becomes much smoother, especially compared to using conventional tape-based playback devices. And, of course, using the built-in streaming capability or signing up with a streaming service provider allows the impressive screen projection to be distributed across the web, delivering the message wherever desired.

Large Projection Application

Camera | Video Clip | Powerpoint

Optional Accessories

BKAW-550 PC Video Interface Module		RGB	D-Sub Shrink 15pin Type x 2 (Female)
BKAW-560 HD Video Interface Module		Y PB PR IN	D-Sub Shrink 15pin Type x 2 (Female) / Analogue Component 1080 50i / 59.94i, 720 50p / 59.94p Sync on Y Y: 0.70V, Pb & Pr: ± 0.35V
		Y PB PR OUT*	D-Sub Shrink 15pin Type (Female) / Analogue Component 1080 50i / 59.94i, 720 50p / 59.94p Sync on Y Level Y: 0.70V, Pb & Pr: ± 0.35V
BKAW-570 SD Video Interface Module		Composite	BNC Type x 2 / Video: 1.0 Vp-p, 75 Ω, Sync negative
		S-Video	DIN Type x 2 / Y: 1.0 Vp-p, 75 Ω, Sync negative / C: 0.286 Vp-p at burst, 75 Ω (NTSC) / C: 0.3 Vp-p at burst, 75 Ω (PAL)
		DV IN/OUT	IEEE 1394 6-pin type x 2; IEC 6 1883-2 compliant
		i.LINK	IEEE 1394 S400 6pin Type x 1 / HDD IF: SBP2
BKAW-580 Serial Digital Interface Module		SD SDI IN	BNC Type x 2 / Video: 800m Vp-p (75 Ω) / SMPTE259M-C, ITU-R656 compliant / Audio sampling rate: 20 bit 48 kHz 2 channels (channel 1 and 2, or 3 and 4) / SMPTE272M-A compliant
		SD SDI OUT	BNC Type x 1 / Video: 800m Vp-p (75 Ω) / SMPTE259M-C, ITU-R656 compliant / Audio sampling rate: 20 bit 48 kHz 2 channels (channel 1 and 2) / SMPTE272M-A compliant
		i.LINK	IEEE 1394 S400 6pin Type x 1 / HDD IF: SBP2
BKAW-590 HD SDI Module		HD SDI IN	BNC Type x 2, 800 mVp-p, 75 Ω Video: SMPTE 292M 1080 50i / 59.94i , 720 50p / 59.94p Audio: SMPTE 299M (48kHz, 20bit, 1/2CH, 3/4CH selectable)
		HD SDI OUT*	BNC Type, 800 mVp-p, 75 Ω Video: SMPTE 292M 1080 50i / 59.94i , 720 50p / 59.94p Audio: SMPTE 299M (48kHz, 20bit, 1/2CH)

* The output is active when 16:9 HD mode is selected for Programme Output Aspect Ratio.

Specifications

	AWS-G500	AWS-G500HD
General		
Power Requirements	AC 100-240 V, 50/60 Hz	
Operating Voltage	AC 90-260 V, 47/63 Hz	
Power Consumption	160 W	
Operating Temperature	5 to 40 °C (42 to 104 °F)	
Dimensions (W x H x D)	424 x 114 x 354 mm (16 ¾ x 4 ½ x 14 inches)	
Mass	8.0 kg (17 lb 10 oz)	7.6 kg (16 lb 12 oz)

| **Video Signals**		
VIDEO INPUTS (in ex-factory configuration)		
Composite	BNC Type x 4 Video: 1.0 Vp-p, 75 Ω, Sync negative	—
S-Video	DIN Type x 4 Y: 1.0 Vp-p, 75 Ω, Sync negative C: 0.3 Vp-p at burst, 75 Ω (PAL)	—
RGB	D-Sub Shrink 15-pin Type x 2 (Female)	—
HD Analogue Component	—	D-Sub Shrink 15-pin Type x 2 (Female) 1080 50i / 59.94i, 720 50p / 59.94p Y: 0.70V, Pb, & Pr: ± 0.35V
HD-SDI	—	BNC Type x 2, 800 mVp-p, 75 Ω Video: SMPTE 292M 1080 50i / 59.94i, 720 50p / 59.94p Audio: SMPTE 299M (48kHz, 20bit, 1/2CH, 3/4CH Selectable)
VIDEO OUTPUTS (in ex-factory configuration)		
Composite	BNC Type x1 Video: 1.0 Vp-p, 75 Ω, Sync negative	
S-Video	DIN Type x 1 Y: 1.0 Vp-p, 75 Ω, Sync negative C: 0.3 Vp-p at burst, 75 Ω (PAL)	
RGB	D-Sub Shrink 15-pin Type x 2 (Female)	
REF OUT	BNC Type x 2 Sync: 0.3 Vp-p, 75 Ω, Sync negative (PAL) C: 0.3 Vp-p at burst, 75 Ω (PAL)	
HD Analogue Component	—	D-Sub Shrink 15-pin Type (Female) 1080 50i / 59.94i, 720 50p / 59.94p Sync on Y, Level Y: 0.70V, Pb, & Pr: ± 0.35V
HD-SDI	—	BNC Type x 1, 800 mVp-p, 75 Ω Video: SMPTE 292M 1080 50i / 59.94i, 720 50p / 59.94p Audio: SMPTE 299M (48kHz, 20bit, 1/2CH)
VIDEO INPUTS/OUTPUTS		
DV IN/OUT	IEEE 1394 6-pin type x 4 IEC 61883-2 compliant	
Video Signals Performance		
Quantisation and Sampling Frequency (SD Video)	8 bit Y: 13.5MHz R-Y/B-Y: 6.75MHz	
Frequency Response	NTSC: 0 to 4.2MHz +1dB - 3dB / PAL: 0 to 4.8MHz +1dB - 3dB	
S/N Ratio	50dB or more (Composite Y)	
Y/C Delay	Less than 50ns	
REF OUT Frequency Accuracy	Within 50ppm	
RGB Preset Signals	XGA 60Hz (VESA DMT1024 x 768 60Hz) / XGA 75Hz (VESA DMT1024 x 768 75Hz) / WXGA 60 Hz (VESA DMT1280 x 768 60Hz) / SXGA 60Hz (VESA DMT1280 x 1024 60Hz) / SXGA 75Hz (VESA DMT1280 x 1024 75Hz) Input Only	

HDD Port (in ex-factory configuration of AWS-G500)		
i.LINK* (in ex-factory configuration)	IEEE 1394 S400 6-pin Type x 2 HDD IF: SBP2	
HDD Recording / Playback		
Codec	DV	
Recording Format	AVI (DV-AVI)	
Recording Source		

	AWS-G500	AWS-G500HD
SUPPLIED ACCESSORIES		
Operating Instructions	Printed manual, CD-ROM	
Keyboard	85 keys + Pointer / Infrared communication / Powered from AWS-G500 / AWS-G500HD: + 5 V / Battery operation: CR2032 or CR2032H	
Cell Battery	Dual CR2032 Pack x 1	
Pin to BNC Connector	x 4 (AWS-G500)	
75 Ω Terminator	x 1 (AWS-G500HD)	

Audio Signals	
AUDIO INPUTS	
Analogue Inputs 1-2	XLR/TRS Combo Type x 2 / Ref. Level: + 4 dBu, - 20 dBu, - 44 dBu / Mic. Power: + 48 V
Analogue Inputs 3-6	TRS Type (Balanced) x 4 / Ref. Level: +4 dBu, - 20 dBu, - 44 dBu
Analogue Inputs 7-8	Pin x 2, Ref. Level: -10 dBu
AUDIO OUTPUTS	
PGM OUT	TRS Type x 2, Ref.: + 4 dBu, Impedance: 150 Ω
MIX OUT	Pin Type x 2, Ref.: -10 dBu, Impedance: 470 Ω
AUX OUT	TRS Type x 2, Ref.: + 4 dBu, Impedance: 150 Ω
MONITOR OUT	TRS Type x 2, Ref.: + 4 dBu, Impedance: 150 Ω
HEADPHONES	1/4" Stereo Phone Jack Type x 1, 70mW x 2, Impedance: 47 Ω
INTERCOM	D-sub 9-pin Type (Female) / Original Parallel I/O
AUDIO SIGNALS PERFORMANCE	
Sampling Frequency	48kHz x 128 over sampling (A/D)48kHz/32kHz (DV IN)
Quantisation	24 bit (A/D, D/A), 32/40bit (DSP)
Frequency Response (MIC/LINE)	20Hz to 20kHz + 0.5dB to - 2dB
THD (LINE -10dBu 1kHz)	0.1% or less
Dynamic Range	90dB or more

Other Interfaces	
NETWORK	RJ-45 Type x 1, 10 base-T/100 base-TX
USB	USB A Type x 2, USB compatible
RGB (GUI)	D-Sub Shrink 15 pin (Female), 1280 x 800 60 Hz
REMOTE	D-Sub 9 pin (Male), RS-232C
FACTORY USE	D-Sub 15 pin (Male), Original Parallel I/O Up to five camera tally outputs are available
MEMORY STICK	Memory Stick Slot / Memory Stick Pro / Pro Duo
VISCA OUT	DIN 8pin Type x 1 / Sony's VISCA camera commands are supported
LCD	15.4" High Brightness LCD, 1280 x 800 60 Hz
SPEAKER	Built-In Speaker x 2 Size: 20 x 40 (mm)
Streaming Performance	
Codec	Real Video 9, Real Audio 8
Streaming Server	Helix DNA Server
Protocol	rtsp (Streaming), UDP, TCP, HTTP (Transport)
Audio Sampling Frequency	44.1kHz
Resolution	160 x 120, 240 x 180, 320 x 240
Bit Rate (Video+Audio)	Compression Scheme: Variable Bit Rate / Preference: Average (Max. Bit Rate) 34kbps(56kbps) / 50kbps(64kbps) / 150kbps(180kbps) / 225kbps(256kbps) / 350kbps(700kbps) / 450kbps(900kbps) / 700kbps(1400kbps) / 1Mbps(2Mbps)**
Frame Rate	15fps (Typical) ***
Distribution Delay	10 seconds or more (inc. player's minimum buffering delay)
Client Number	34, 50, 150kbps: Up to 20 / 225, 350kbps: Up to 10 / 450, 700kbps: Up to 5 (This number is influenced by network condition.)

Dimensions Unit: mm (inches)

375 (14 ⅞) · 133° · 114 (4 ½) · 424 (16 ¾) · 354 (14) · 93 (3 ¾) · 424 (16 ¾) · 339 (13 ⅜)
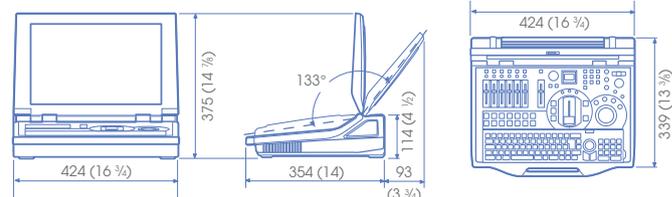
* i.LINK is a trademark of Sony used only to designate that a product is equipped with an IEEE1394 connector. All products with an i.LINK connector may not communicate with each other.
Please refer to the documentation that comes with any device having an i.LINK connector for information on compatibility, operating conditions, and proper connection.

**   For VOD files only

*** The Anycast Station automatically selects the frame rate according to bit rate and picture resolution. Therefore the frame rate cannot be manually selected.

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