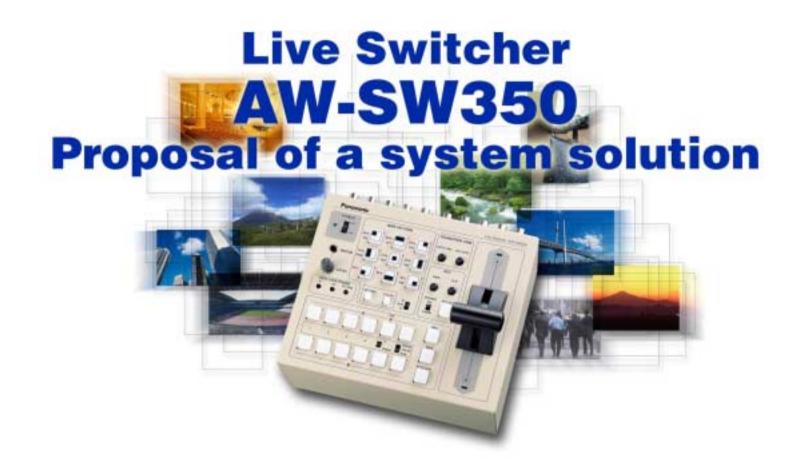
# Panasonic



Matsushita Electric Industrial Co.,Ltd. Panasonic System Solutions Company Corporate Broadcast and Multimedia Division

# 5-inputs, Compact Size Live Switcher with Versatile Functions



# Live Switcher AW-SW350

KEY FEATURE

# 5 inputs (Composite & Y/C) in Compact Body

- •5 composite inputs/2 outputs are available. Auto termination and loop through outputs.
- ●5 Y/C video inputs/1 outputs (4P) are available.
- Possible to switch input 5 and video in self-contained frame memory. Selectable color background: black and nine colors

## **Three Program Outputs and One Preview Output**

- ●3 Program outputs (Composite X2, Y/CX1)
- Preview output for confirmation of next operation.

## Selectable Bus Switching System

•Selectable A/B bus system or Flip Flop system in bus operation.

# 10 bit 5-channel Frame Synchronizer/

# **External Gen-lock System**

- •Built-in 10 bit 5-channel frame synchronizer, which is useful for highquality switching(No freeze picture in asynchronous video input)
- This switcher can also has the Frame Synchronizer turned off and thus be used as a gen-lockable device for high-quality video.
- This has Black Burst Output and also this can be gen-locked by external video signal.

# Frame Capture, Soft Wipe and Linear Key

- •USB port is available for mixing/keying video and characters graphics from PC. One frame memory is self-contained.
- Nine wipe patterns and manual/auto wipe(hard wipe/3 steps of soft wipe)
  Smooth characters keying by linear key system.

# **DC Operated Compact Switcher**

• This half rack size switcher can be operated by DC battery input so that it may be operated as a field switcher.

(Note:Be careful of rain and water drop because this is not water proof construction.)

## **Tally and Intercom Function**

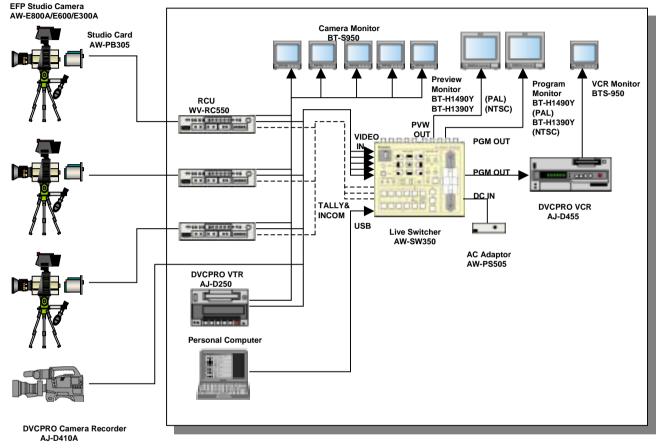
- ●5 tally outputs
- ●5 intercom inputs/outputs

## **NTSC/PAL Switchable**

This can be used in both NTSC and PAL format.



# **FIELD/STUDIO PRODUCTION SYSTEM**



# A CONTRACT OF

#### **KEY FEATURES**

- ①High quality video production system with no gen-lock system or gen-lock system.
  ②AC operation in production studio or DC operation in field production.
- 3 Total 5 cameras, camera recorders or
- VCRs can be connected. (Total 5 video inputs)
- (4) Title characters or graphic through USB port
- from PC can be wiped, mixed or imposed in the program video.
- (5) Each camera operator can be communicated
- with a director by tally indicator and intercom communication.
- 6 Program video from the switcher can be
- recorded by DVCPRO studio recorder.

#### ■PRODUCT CONFIGURATION

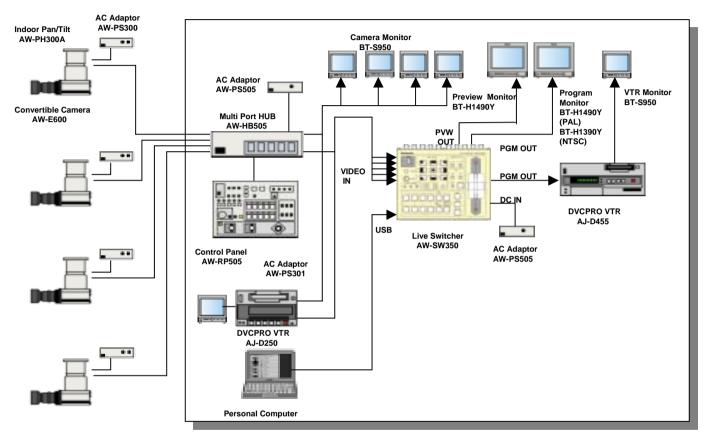
3 CCD Convertible Camera	AW-E600	3	\$ 
16X Zoom Lens	AW-LZ16ST73P	3	\$
Studio Card	AW-PB305	3	\$ 
5" Viewfinder	AW-VF65B	3	\$
Viewfinder Bracket	AW-Q40	3	\$
Lens Control Kit	AW-LK50	3	\$ 
ote Control Unit	WV-RC550	3	\$
RCU Cable(15m)	AW-CA50A26	3	\$
DVCPRO Camera Recorder	AJ-D410A	1	\$

16X Zoom Lens	YH16X7KRS	1	\$
DC Battery	32142	1	\$
1.5" Viewfinder	AJ-VF15	1	\$ 
Live Switcher	AW-SW350	1	\$
DVCPRO Studio Recorder	AJ-D455	1	\$ 
DVCPRO Desktop Recorder	AJ-D250	1	\$ 
9" Professional Monitor	BT-S950	6	\$ 
13" Professional Monitor	BT-H1490Y(139	0Y)1	\$ 
AC Adaptor	AW-PS505	1	\$
Power Cable	AW-CA4T1	1	\$
PC		1	\$

#### Note:Cost of Audio System is estimated separately



# **REMOTE OPERATION VIDEO SHOOTING SYSTEM**





#### **KEY FEATURE**

- (1)Total 5 cameras and pan/tilt system can
- be remotely controlled.
- ②High quality video can be distributed and recorded by DVCPRO VTR.
- 3Quiet, smooth and accurate pan/tilt
- motion are suitable for quiet production
- studio, conference room, church, parliament,etc.
- Titles, graphics through USB port from PC can be wiped, mixed and superimposed in program video.
- (6) Program video from the switcher can be recorded by DVCPRO studio recorder. Maximum recording time is 184 minutes by using "L" cassette.

#### ■ PRODUCT CONFIGURATION

3CCD Convertible Camera	AW-E600	4	\$
16X Zoom Lens	AW-LZ16MD73	4	\$
Pan/tilt Head	AW-PH300A	4	\$
Pan/tilt Cable	AW-CA50T16	4	\$
AC Adaptor	AW-PS300	4	\$
Control Panel	AW-RP505	1	\$ 
AC Adaptor	AW-PS301	1	\$

Switcher	AW-SW350	1	\$	
Hub Unit	AW-HB505	1	\$ 	
DVCPRO Studio Recorder	AJ-D455	1	\$ 	
9" Professional Monitor	BT-S950	6	\$ 	
13" Professional Monitor	BT-H1490Y(139	90Y)2	\$ 	
PC		1	\$ 	
AC Adaptor	AW-PS505	2	\$ 	
Power Cable	AW-CA4T1	1	\$ <u> </u>	No

lote:Cost of Audio System is estimated separately

# Wipe, Key and Still Video Capture

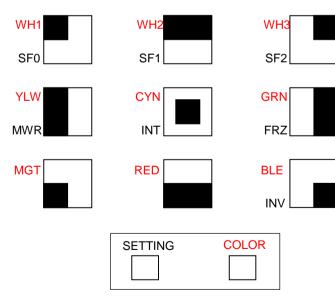
## **①Transition Wipe**

•A picture in B bus is switched to a picture in A bus by wiping.



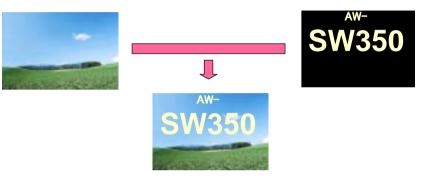
### **②Wipe Pattern**

- ●9 types of pattern are available.
- Selectable 3 types soft wipe by pushing WIPE and SETTING buttons.
   (3 steps soft wipe:SF0, SF1, SF2)
- •Selectable 9 colors by pushing WIPE and COLOR buttons.



## **③Luminance Key**

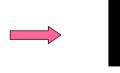
•A key video can be imposed in a picture in A bus.



## **④**Still Video Capture

●A still picture in PC can be captured in frame memory through USB port ●A picture captured in frame memory can be mixed with a picture of input 1, 2, 3, or 4.



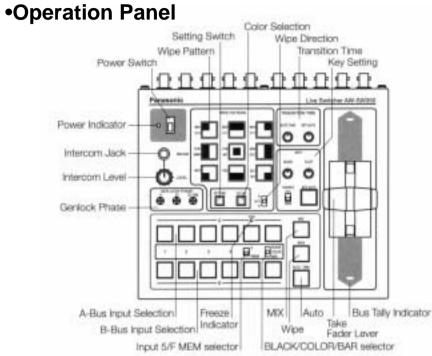




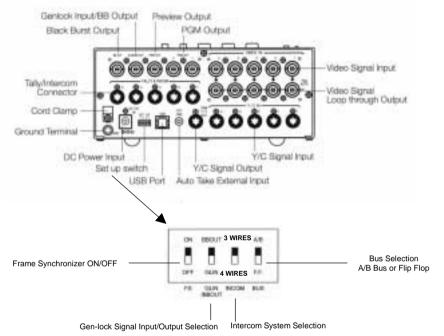




# **Control Panel/Connectors/Switches**



# •Back Side



# Specifications

in i	Composite video	VBS 1,0Vp-p/75ohmX5 (auto term.)	5 Intercom	1-5 (6 pin connector, 3/4 wires switchable)
pis Inda	Y/C	Y:1.0Vp-p C:0.286Vp-pX5 (5 connector)	Tally control	Main frame (M6 jack) 1~5 open collector output
	USB	USB 1.1	Color bar	SMPTE (NTSC), EBU (PAL)
al I	Composite Loop through	Loop through output of composite Video output X each 1 (BNC)	External VR	Auto Take/Key Auto Time Adjustment, Incom Level Adjustment, Key Level/ Key Clip Adjustment
E.	PGM output	75ohmX3 (VBS:BNCX2,5: SX1)	External Switch	WIPE, MIX, INPUT SELECTOR (1-5), Wipe
nt s	PVW output	VBS 1.0Vp-pX1		Pattern Selector, Bar/Color/Black Selector, Input 5/Frame memory selection switch,
ÿ.	BBS output	BBSX1 (BNC), GL In/BBSoutX1		Auto Take, Wipe Direction Switch
Function 0	Wipe	Direction(normal/reverse, normal, reverse)	Power	DC12V 1.35A (16W)*
		Nine Patterns	Ope. temperature	0°C-+40°C
	Background	White/Black/6 Colors (100%,90%,80% White)	Weight	4.9 lbs (2.2kg)
	Key	GAIN, CLIP	Dimension	8-1/4" (W) X 3-7/16" (H) X 6-15/16" (D)
	Wipe/Mix	Manual (Fader lever)/auto (auto take)	An Original and	210(W) X 86(H) X 177(D)mm

 Recommended Power Supply: AW-PS505(Power Supply) AW-CA4T1 (Power Cable)

# **Comparison Chart**

	AW-SW300	AW-SW350	AG-MX70	
Description	Production Switcher	Production Switcher	AV digital Mixer	
Frame Synchronizer	YES (2ch)	YES (5ch)	YES (2ch)	
Frame Synchronizer OFF	YES	YES	N/A	
Sampling Frequency	14.3MHz	13.5MHz	13.5MHz	
Sampling	4:2:2	4:2:2	4:2:2:4	
Quantization	10bit	10bit	9bit (8bit internal proc.)	
Frequency Response	FS OFF ; 10MHz FS ON  ; 6MHz	FS OFF ; 10MHz FS ON ; 6MHz	N/A (6MHz)	
S/N	FS OFF ; 60dB	FS OFF ; 65dB	50dB	
3/IN	FS ON ;56dB	FS ON ;58dB	(56dB Component)	
DG,DP	+/-2.5° +/-2.5%	FS OFF ; +/-1.5° +/-1.5% FS ON ; +/-2.0° +/-2.0%	3° 3%	
Color Bar	SMPTE	SMPTE or FULL	FULL	
Intercom	YES	YES	NO	
Tally	YES	YES	YES	
Wipe Pattern	4	9	1600	
Input	4 composite or 4 Y/C	5 composite or 5 Y/C	8 Composite, 4 Component 4 Y/C, 4 SDI (OP)	
Output	2 composite, 2 Y/C A Bus Select, B Bus Select	2 composite, 1 Y/C Preview	2 composite, 2 Component 2 Y/C, Preview, 1 SDI(OP)	
Sync. Output	1 Black Burst	1 Ref. IN + 1BB out or 2 BB out	1 Ref. IN + 1BB out	
External Control	AUTOTAKE	AUTOTAKE KEY AUTO	Editor I/F	
DC Operation			NO	
AC Operation	option AW-PS505	option AW-PS505	AC100V 70W (max)	
Weight	2.2Kg	2.2Kg	8.7Kg	
Size	210(W) x 88(H) x 177(D)	210(W) x 88(H) x 177(D)	424(W) x 197(H) x 400(D)	
Configuration	Half Rack	Half Rack	Table Top	
Graphic File Transfer	NO	YES	YES	
NTSC/PAL switchable	NO	YES	YES	
Price				