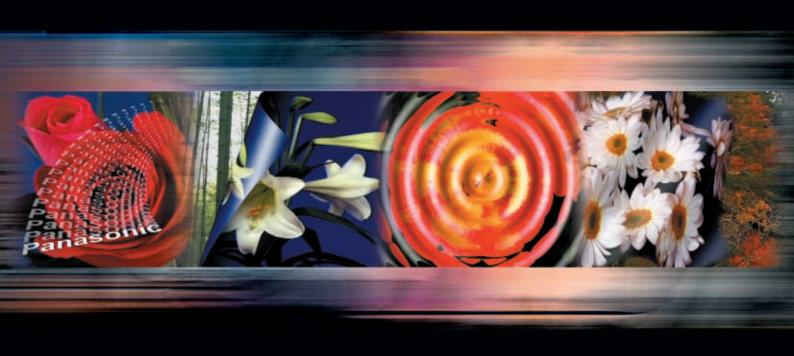
Panasonic









4:2:2:4 Picture Quality, 3D Effects, SDI In/Out, and Title Animation — Plus Easy Operation and Outstanding Cost-Performance.

With the AG-MX70 digital A/V mixer, Panasonic has integrated a 2-BUS, 8-input video switcher, multi-functional digital video effects unit with high-end performance, and an audio mixer into a single compact unit.

The AG-MX70 provides broadcast-grade 4:2:2:4 digital component picture quality. It features more than 600 effect patterns and a 30-frame graphics buffer for roll, crawl, and logo animation using title files downloaded from a PC. A large LCD panel with a matrix menu helps assure quick, easy operation. Offering optional 3D video effects and SDI interface, this A/V mixer is ready for full-fledged digital post-production.

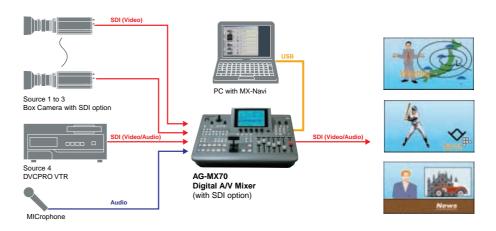
The versatile AG-MX70 is right at home when connected to 25 Mbps DVCPRO VTRs in a digital editing system, or when used as a switcher either in the studio or at live events.



System Applications

Live Application

Eight video inputs, each with tally output, and M/E and DSK preview prepare the AG-MX70 for use as a switcher with multi-camera feeds for live studio or event applications. Adding the optional SDI interface also enables high-quality digital input. Titles and graphics created on a PC can be downloading from MX-Navi application, and easily superimposed for use in live production programming.



Editing Application

Standard-equipped RS-422A and RS-232C remote terminals and a GPI terminal allow the AG-MX70 to team up with the AG-A850 or otherbrand editing controller, for A/B roll editing. With the SDI interface option on-board, a high-quality, fully digital editing system can also be configured with a DVCPRO VTR. The MX-Navi title insertion program brings the quality of program production to a level approaching many high-end systems.



Creative, Intelligent, Versatile











Accordion

Page turn

Melt

4:2:2:4 Digital Processing, 16:9 Wipe Patterns

The AG-MX70 provides high quality 4:2:2:4 digital component signal processing, and wipe patterns accommodates both 16:9 and 4:3 image production needs.

Large LCD Screen, Matrix Menu

A large LCD panel permits easy monitoring of system status. A five-row matrix menu display with five rotary switches makes it easy to understand and set the AG-MX70's multitude of functions. The menu, which is linked to keys on the operating panel, automatically switches to show the necessary settings. This simplifies operation and reduces steps.

2D and 3D Video Effects

Equipped with over 600 2-dimensional effects -- including transition and key patterns, mosaic, paint, trail, and multi-image digital effects -- the versatile AG-MX70 has all it takes to create professional production results. The optional AG-VE70 3D Effects Board provides more than 1,600 3D digital effects, including page turn, ripple, and sphere. The 2D and 3D effects can be combined to create sophisticated image expressions that rival many high-end DVEs.

Roll, Crawl, and Logo Animation

MX-Navi makes it easy to download graphics files (TGA, BMP, JPEG) created with the other graphics applications, via a USB terminal. Downloads go to the internal graphics buffer* for use in creating roll or crawl titles, logo animation, and other effects.

*NTSC: 640 x 480 pixels x 30 frames, PAL: 768 x 576 pixels x 26 frames

Serial Digital In/Out

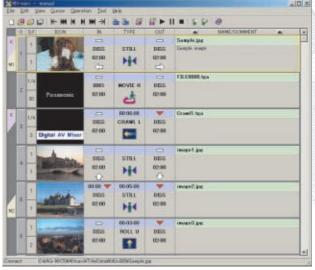
Adding the optional AG-YA70 SDI Board gives the AG-MX70 a 4-input/1-output serial digital component interface (SMPTE 259M-C). This is ideal for configuring an editing system with DVCPRO or other digital VTRs.

8 Video Inputs

The AG-MX70 is ready for live multi-camera feeds, with a total of eight analog composite inputs, or four analog component Y/Pb/Pr or YC inputs and four SDI inputs.

Joy Stick Controller

The easy-to-handle joy stick lets you intuitively position or size your effects, and select or adjust colors.



MX-Navi application window











Sphere

Trail Title Animation

Audio Mixing

The AG-MX70 provides versatile audio mixing with four Stereo Inputs plus two Auxiliary Mono Inputs, one of which may be a mic input. Audio can be linked or unlinked to video transitions. The AG-MX70 is also equipped with a headphone jack. The level meters are displayed on the LCD.

Tally Output

Tally outputs for up to eight cameras are provided, for using the AG-MX70 as a switcher at live events.

Other Functions

- Numeric keypad for setting pattern numbers and other values.
- A total of 13 patterns are preset; other patterns can be stored in memory.
- · Digital chroma key, digital luminance key
- M/E(Mix Effects) preview, DSK(Down Stream Key) preview
- Editor terminal (9-pin) for either RS-422 or RS-232C connection

Optinal Boards AG-VE70 3-Dimension Effects Board AG-YA70 Serial Digital Interface Board



SPECIFICATIONS

GENERAL		
Power Source:	120VAC, 50/60Hz (AG-MX70P),	
Davies Canarination	220 — 240VAC, 50/60Hz (AG-MX70E) 50W (Standard), 70W (Full Option)	
Power Consumption:	· · · · · · · · · · · · · · · · · · ·	(Full Option)
Operating Temperature:	5° to 40°C	
Operating Humidity:	Less than 90% (non dew)	
Dimensions:	16-3/4"(W) x 7-13/16"(H) x 15-3/4"(D) 425 (W) x 198 (H) x 400 (D) mm	
Weight:	16.5 lbs (7.5 kg) in Standard 17.6 lbs (8.0 kg) with Full Option	
Standard Accessory:	Power cable, CD-ROM	
VIDEO		
Video Format:	625/525 switchable	
Sampling Frequency:	Y: 13.5 MHz, Pb/Pr: 6.75MHz, Key: 13.5MHz(4:2:2:4)	
Quantization:	Ext. key: 8 k	
		oit with dynamic rounding bit
Gain:	Unity (100% ±2%)	
Band width:	Y: 0.5MHz to 5.0 MHz (±1.0 dB), Pb/Pr: 0.25MHz to 2.5 MHz (±1.0 dB)	
S/N ratio:	56 dB(component), 50 dB(composite or YC)	
K factor:	Less than 1%	
DG/DP:	Less than 3%/3°	
PLL Frequency Range:	Sync: fh±300 Hz, SC: fsc±40 Hz fh=15.734kHz (AG-MX70P)/15.625kHz (AG-MX70E) fsc=3.58MHz (AG-MX70P)/4.43MHz (AG-MX70E)	
System Delay:	Max. 1-frame	
AUDIO		
Sampling Frequency:	48 kHz	
Quantization:	Analog Input: 20bit, Digital Input (option): 24bit	
Frequency Response:	20 Hz to 20 kHz (±1.0 dB)	
Dynamic Range:	More than 85dB (analog In/out)	
THD:	Less than 0.05% (1 kHz, aliment level)	
Cross Talk:	Less than -70 dB (1 kHz, between any two channels)	
Headroom:	20 dB/18 dB switchable	
Digital Audio:	SDI Embedded Audio 2CH (Ch-1&2/3&4/58	
VIDEO INPUT		
Analog Component :		2/3/4), Y: 1.0 Vp-p 75 Ω , 525/0.757 Vp-p switchable 75Ω, 7 Vp-p 75Ω
Analog Composite:	BNC x 8 (SOURCE 1 — 8), 1.0Vp-p 75Ω	
S-Video:	Mini-DIN4 x 4 (SOURCE 1/2/3/4), Y: 1.0 Vp-p, 75Ω, C: 0.286Vp-p 75Ω (AG-MX70P), 0.3Vp-p 75Ω (AG-MX70E)	
External Fill:	BNC x 1 (Y/Pb/Pr), Analog Component, Y: 1.0 Vp-p 75Ω Pb/Pr (AG-MX70P): 0.525/0.757 Vp-p switchable 75Ω Pb/Pr(AG-MX70E): 0.7 Vp-p 75Ω *Y signal will be clipped at lower than pedestal level.	
External Key :	BNC x 1, 1.0Vp-p, 75Ω, Analog Composite or Y+Sync	
Genlock:	BNC x 1 (with passive-loop-through), 1.0Vp-p 75 Ω On/Off	
SDI (Option) :	BNC x 4 (IN 1/2/3/4), SMPTE 259M-C/EBU Tech.3267-E	
(opo.) .		

VIDEO OUTPUT		
Analog Component :	BNC x 2, Y: 1.0 Vp-p 75 Ω Pb/Pr (AG-MX70P): 0.525/0.757 Vp-p switchable 75 Ω Pb/Pr (AG-MX70E): 0.7 Vp-p 75 Ω	
Analog Composite:	BNC x 2, 1.0Vp-p 75Ω	
S-Video:	Mini-DIN4 x 2, Y: 1.0 Vp-p, 75Ω, C: 0.286Vp-p 75Ω (AG-MX70P), 0.3Vp-p 75Ω (AG-MX70E)	
AUX:	BNC x1, 1.0Vp-p 75Ω	
8H Advanced Reference:	BNC x 1, 75Ω, Sync: 0.286(AG-MX70P)/0.3 Vp-p (AG-MX70E) Burst: 0.286(AG-MX70P)/0.3 Vp-p (AG-MX70E)	
SDI (Option):	BNC x 1, SMPTE 259M-C/EBU Tech.3267-E	
VIDEO INPUT ADJUSTM	ENT	
AGC:	Y: +2dB to -6dB, C: +2dB to -6dB	
	(composite and YC input only)	
Setup Level:	0/7.5 IRE switchable (composite and YC, 525 mode only)	
VIDEO OUTPUT ADJUST		
Setup Level:	0/7.5IRE switchable (composite and YC, 525 mode only)	
System H Phase:	-0.25 H to +0.25 H (74 ns/step)	
System SC Phase:	±180°	
AUDIO INPUT		
Analog (L/R):	XLR x 8, +4/0/–3 dBu switchable, $10k\Omega$	
Analog (L/R):	RCA x 4 (AUX 1/2), -8.0 dBV, 10KΩ, unbalanced	
MIC:	M6 x 1, -60 dBu, 2kΩ, unbalanced	
SDI (Option):	BNC x 4, Embedded Audio (CH1/2, 3/4, 5/6, 7/8 switchable)	
AUDIO OUTPUT		
Analog (L/R):	XLR x 2 (PROGRAM 1), +4/0/-3 dBu switchable, 47Ω	
Analog (L/R):	RCA x 2 (PROGRAM 2), -8.0 dBV, 47Ω	
Headphone:	M6 x 1, 8Ω, unbalanced, -20 dBu to -60 dBu	
SDI (Option):	BNC x 1, Embedded Audio (CH1/2)	
OTHER PORT	, ,	
Editor:	D-sub 9-pin, RS-422A/232C switchable RS-422A Protocol; GVG/Sony switchable	
Connectable Editor:	Panasonic: AG-A850, SONY: BVE-2000, BVE-910, BVE-700, PVE-500	
Tally Out:	D-sub 9-pin, Open-Collector x 8ch Collector Current: Less than 50mA, Maximum Voltage: 35VDC	
GPI:	BNC x 1, Voltage (TTL-level) or Make-contact (pull-up resister = 10k Ω), Low-Active	
USB:	Type-B connector x 1, USB Ver.1.1 (cable length: max. 3m)	
FUNCTIONS		
Video Effects:	Nega, Mosaic, Mono, Paint, Strobe, Multi, Trail, Frame/Field-Still, Defocus, Decay, Mirror	
Matte Colors:	White, Yellow, Cyan, Green, Magenta, Red, Blue, Black, Color-Bar, Custom 1/2	
Wipe/Transition Patterns:	More than 600 patterns (standard), More than 1,600 patterns (with optional 3D Effect Board)	
Event Memory:	100 Events	
Joystick Control:	Positioner, Color Correction.	
Audio Mixer:	SOURCE-1 to 8, AUX-1, AUX-2/Mic, Master	
Audio Effects:	3 Band-EQ, Pan, Attenuator, Voice Changer	
Others:	Audio-Follow, Auto-Take, Auto-Fade, Memory, Audio&Video Input-Assign	

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[Countries and Regions]

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