

Panasonic

Production Mixer
WJ-MX50A

Production Mixer

MIX50A



Meeting Professional Needs An AV Mixer with a Mounted Two-Channel Digital Frame Synchronizer Can Now Be Yours.



Interfaced to editing machines, this mixer ensures maximum efficiency in A/B roll editing.

An RS422 port is premounted for interfacing this mixer to editing machines, enabling A/B roll editing to be performed and such settings as wipe patterns and transition times to be controlled with the highest possible efficiency. This mixer is also RS232C-compliant and can be controlled from a computer, providing great freedom in video editing.

*Y/C separate outputs
Sampling rate: 14.3MHz
Eight-bit signal processing*

High-image-quality AV mixing capability bolstered by advanced digital effects.

A two-channel digital frame synchronizer is mounted to digitize video signals from two sources. AV mixing making the most of digital effects can be achieved without the use of TBC (Time Base Corrector). Title inputs from camcorders or titlers can also be accommodated for PAL environments.



A variety of effects, a wide range of images... plus new features

SPECIAL DIGITAL EFFECTS

Special-effect and wipe-pattern combination presets

In addition to basic digital effects, eight convenient special digital effect presets are available to enable the most suitable effects to be selected at the touch of a button.

Mosaic mix



Corkscrew



Flip



Stream: A reduced wipe picture enters from the upper left or upper right corner of the screen.

Bounce: A picture enters and exits bouncing from the upper left corner of the screen.

Shutter: A round wipe picture appears as a dot at the centre of the screen, quickly grows in size and then disappears into the same dot from which it appeared, as if the shutter of a camera was opened and closed.

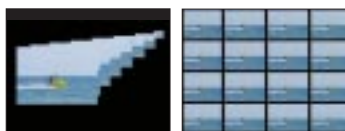
Vibrato: The image shakes as if struck by an earthquake.

Satellite: The picture moves in a circle, providing the illusion of depth.

DIGITAL EFFECTS

Complex image-processing achieved easily

In addition to the separate use of strobe, paint, trail, and multi-move, multiple effects can be used in any combination to create highly artistic images.



Trail

16-partition multi-images

KEY/DSK/MIX

All your goals can be accomplished through the use of the following features in accordance with the effects you desire and the materials you are using

Digital chroma key

Chromakey can be executed using the B-BUS as a key source. The key signal is adjustable in terms of the amount of slice and the hue, making linear key composition possible.

Digital luminance key

A key signal is created from high-luminance portions of the B-BUS. The amount of slice is adjustable to accommodate a variety of sources.

Down stream key

Superimpositions can be created by using the A-BUS, B-BUS, or external cameras as key sources. Five kinds of edges can be selected. Colour bars can also be used.

Mix(Overlap)

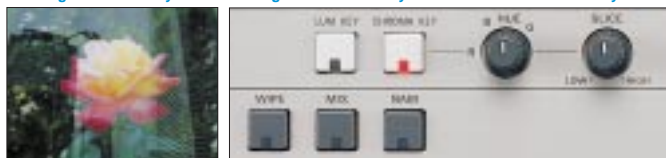
In addition to the normal mix function, NAM (Non-Additive Mix) capability is also provided. Only the high-luminance portion of either the A-BUS or B-BUS can be combined with an image of the other BUS. This is useful in composing a picture against a black background.



Digital chroma key

Digital luminance key

Down stream key



Mix (Overlap)

WIPE

A total of 287 wipe patterns are available, in addition to a scene grabber

As many as 287 combinations of wipe patterns are provided, including Multi (six types), Paring, Compression, and Slide (three types each), Aspects (■●◆), and Blind, in addition to 27 types of basic wipe patterns.

- A newly mounted scene grabber enables the desired image to be obtained within a wipe pattern and moved to any position on the screen. Wipe patterns themselves can be positioned through the use of a positioner.
- Two types of edges can be selected when wipes are executed: Hard Edge and Soft Edge. Borders are also available in two types and eight colours.
- Auto take can be manually set from 0 to 510 frames, or from 0 to 999 frames, from the RS422 interface.
- An audio follow function, which allows the wipe lever to control audio is provided.
- The settings and selections of wipe patterns, pattern modes, and multi modes can easily be checked using LED indications (auto-take and auto-fade times can also be monitored visually).



3x multi

Paring

Compression



Scene grabber

Blind

Trail + Paint + Aspect

AUTOMATIC PROGRAMMABLE EFFECT

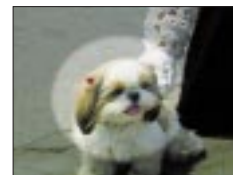
A maximum of eight of your most commonly used original programs can be stored in presets. The backup function enables these programs to be stored in memory for approximately one week with no power supplied.

MATTE

For matte/back, nine colours are available: white, yellow, cyan, green, magenta, red, blue, black, and colour bar. For matte colours, graduation and colour can be varied, except for colour bar.

FADE

Video, audio, and superimpositions can be faded in and out, simultaneously or separately. The fade colour can be selected from among white, black, and the matte colours. A spotlight effect is also available that allows the screen to be dimmed except for a selected area.



spotlight effect

AUDIO MIXING

Four audio sources can be mixed together, including a post-recording audio mic input. An audio level meter and a headphone output are provided on the front panel, making it easy to monitor the mixing process.

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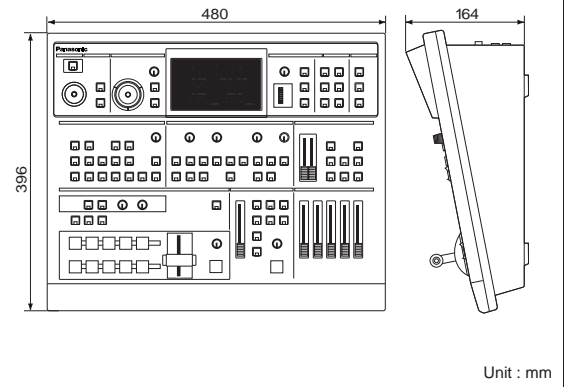
Rear Panel



Front Panel



Dimensions



Unit : mm

Typical Features

Control system	RS422 RS232C GPI	Wipe	Pattern (287 types) Border (two types, eight colours) Soft (two types) Hard Slide (three types) Multi (six types) Paring Compression Blind One-way / reverse Aspect (variable ratio) Auto take (0 to 510 frames in manual mode/0 to 999 frames when controlled from the RS422 I/F interface) Scene grabber	Fade	Auto fade (0 to 510 frames in manual mode/0 to 999 frames when controlled from the RS422 I/F interface) A/B/BC/W/BLK, selectable
Digital effect	Still (frame/field)*1 Strobe (0.03 sec. to 2.1 sec., frame/field)*1 Mosaic (31 steps) Paint (seven steps) Negative/positive Monochrome Multi move (4-, 9-, or 16-partition, ONCE/REPEAT)*2 Trail (frame/field)*1 AV sync	Key	Digital chromakey Digital luminance key DSK (Down Stream Key) Auto fade (0 to 510 frames in manual mode/0 to 999 frames when controlled from the RS422 I/F interface) Edge (five types)	Matte	Nine types (white, yellow, cyan, green, magenta, red, blue, black, and colour bar) Graduation (except for colour bar) Level variation (except for colour bar)
Special digital effect	Mosaic mix Stream Corkscrew Bounce Flip Shutter Vibrato Satellite				Mix NAM Colour corrector LED indication (wipe pattern, pattern mode, multi mode, auto-take time, auto-fade time, and audio level) Program memory (maximum of eight events) Audio mixing (four sources) Audio follower

*1: Normally, the frame/field is suitable for processing fast-moving images.
*2: In ONCE mode, a multi-partition screen appears only once; in REPEAT mode, it appears repeatedly.

SPECIFICATIONS

Source Input	x4 (SOURCE 1/2/3/4)	S-Video Output	Y signal; 1.0Vp-p/75Ω C signal; 0.3Vp-p/75Ω Mini DIN 4 connector x2	Others	Audio-Follow, Auto-Take, Auto-Fade, Memory, Special Mode
Composite Video Input	1.0Vp-p/75Ω, PAL signal, BNC x 4	Audio Output	PROGRAM OUT 1; XLR-type x1, +4dBs/47Ω (Balanced), Left and Right PROGRAM OUT 2; Pin-jack x1, -6dBs/47Ω (Unbalanced), Left and Right	Frequency Range	Sync; 15.625kHz ±300Hz SC; 4.433619MHz ±40Hz
S-video Input	Y signal; 1.0Vp-p/75Ω C signal; 0.3Vp-p/75Ω Mini DIN 4 connector x4	Preview Output	1.0Vp-p/75Ω, PAL composite signal, BNC x1	Frequency Response	Y/C signal; 4.5MHz (at -3dB) Audio; 20 - 20kHz (at -3dB)
Audio Input	SOURCE 1/2; XLR-type x2, +4dBm/600Ω (Balanced), Left and Right SOURCE 3/4; Pin-jack x2, -6dBs/20kΩ (Unbalanced), Left and Right	Black Burst Output	Sync 0.3Vp-p/75Ω Burst 0.3Vp-p/75Ω PAL signal, BNC x1	Gain	Unity (Video)
Auxiliary Audio Input	x2 (Aux 1/2) -6dBs/20kΩ, Pin-jack (Unbalanced), Left and Right	Advance Sync Output	4Vp-p/75Ω, BNC x2	S/N (Typical)	56dB (S-Video) 50dB (Composite) 70dB (Audio at 1kHz)
Microphone Input	-60dBv/600Ω, unbalanced, tip-ring-sleeve type phone jack x1	Advance Reference Output	Sync 0.3Vp-p/75Ω Burst 0.3Vp-p/75Ω BNC x2	Differential Gain	±5° (Composite)
External Camera Input	1.0Vp-p/75Ω, PAL composite signal, BNC x1 Y signal; 1.0Vp-p/75Ω C signal; 0.3Vp-p/75Ω Mini DIN 4 connector x1	Headphone Output	-20dBv ~ -80dBv, 8Ω unbalanced, tip-ring-sleeve type phone jack x1	Differential Phase	±5 % (Composite)
GPI Input	Make-contact, BNC x1	Digital Effects	Nega, Mosaic, Mono, Paint, Still, Strobe, Multi, Trail, A/V Synchro, Frame	Power Source	220-240V AC, 50Hz
Character (TITLE) Input	10-pin connector x1 for optional Character Generator WJ-KB30, WJ-KB50	Matte Colours	Colour Bar, White, Yellow, Cyan, Green, Magenta, Red, Blue, Black	Power Consumption	Operation mode; Approximately 45W Stand-by mode; Approximately 5W
Program Output	x2 (PROGRAM OUT 1/2)	Wipe Patterns	287 Patterns	Ambient Operating Temperature	0 - 40°C
Composite Video Output	1.0Vp-p/75Ω, PAL signal, BNC x2	Joystick Control	Positioner, Colour Correction	Ambient Operating Humidity	Less than 90%
		Audio Mixer	A-bus, B-bus, AUX-1, AUX-2, Mic, Master	Dimensions	480 (W) x 164 (H) x 396 (D) mm
				Weight	6.8 kg

Weight and dimensions indicated above are approximate. Specifications are subject to change without notice. This product might be subject to export control regulations.

Panasonic

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