

Panasonic®

DIGITAL AV MIXER
MIX20



LET YOUR IMAGINATION FLY WITH A BROAD RANGE OF EASY-TO-COMMAND DIGITAL EFFECTS

The Panasonic WJ-MX20 Digital AV Mixer provides an extremely clear picture thanks to a 13.5 MHz sampling frequency, 460 lines of horizontal resolution (720 pixels), and S/N ratio of 50dB. The WJ-MX20 makes complex video editing easy with advanced digital functions including Chroma Key, Scene Grabber, On-Screen Display (OSD) Settings and an External Editing Control Input with GPI and RS-422 serial controls.



- CHROMA KEY & LUMINANCE KEY
- HIGH PICTURE QUALITY
- 298 WIPE PATTERNS
- EASY OPERATION WITH OSD SETTINGS

Digital AV Mixer
WJ-MX20

An invitation to the world of a

Digital Special Effects

- Strobe: 5-step field strobe for clear still pictures with adjustable intervals. Field-still can be switched to frame-still to increase vertical resolution
- Still: field or frame freeze for clear still pictures
- Paint: (posterization): level adjustable in 4 steps
- Mosaic: size adjustable in 5 steps
- Negative: negative/positive video reversal
- Chroma: saturation level can be adjusted

Wipe Patterns

- Up to 298 wipe patterns can be created from a combination of 23 basic and special patterns
- Variable Compression: The entire source image can be within a wipe pattern
- Multi-Wipe: BLINDS + 3x & 6x multiplication of an identical pattern
- Wipe Edge Effects: soft, sharp, mosaic, etc.
- Joystick Positioner: for changing the location of wipe and scene grabber; setting-up adjustable back colors, and moving the cursor to set chroma key and color
- Wipe Direction: select One-way Scrolling, Reverse and Normal Reverse
- Scene Grabber: preserves the entire inset picture and lets you select the position of the specified wipe pattern

Key Effects

- Chroma Key: up to 3 positions can be set to the desired chroma level
- Luminance Key: adjustable with slice control

Wipe/Mix

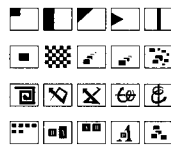
- Automatic A/B Roll (Auto Take): transition rate adjustable
- Audio Follow: synchronizes audio and video during scene transitions
- Back Color: 8 basic colors, 2 selectable gradation patterns and 2 special patterns

Fade-in/Fade-out

- Automatic Fade (Auto Fade): with transition adjustment

On-Screen Display (OSD) Setting

- Use numeric key pad to input appropriate number (s) for OSD set-up menu



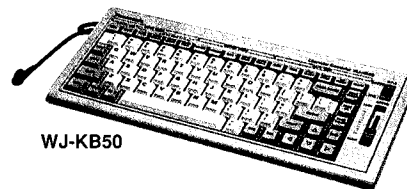
```

#EFFECT :A B
#STROBE :0 1 2 3 4 5
#MOSAIC :0 1 2 3 4 5
#PAINT :0 1 2 3 4
#STILL :FLD FRM
#OMEGA :OFF ON
#CHROMA :OFF ON
DC.LEVEL: *****
    
```

WJ-KB50/WJ-KB30

Character Generator

- Character size: 4 levels (WJ-KB50)/3 levels (WJ-KB30)
- Multiple language modes
- Scrolling: P.1-P.10, up/down/to right/to left
- Crawl mode (single-line scrolling): upper/lower, from right to left
- Character style (FONT): 3 Types (WJ-KB50) 5 types (WJ-KB30)
- Wipe
- Date/Time/Stopwatch functions



WJ-KB50

Automatic Programmable Effects

- 7-event memory; each event can store several digital effects
- OSD setting and 7-event memory have power back-up memory for several days

Color Correction

- Adjust color hue/saturation from any source input

Audio Mixing Capability

- 4 audio level adjustments from any of the 4 sources

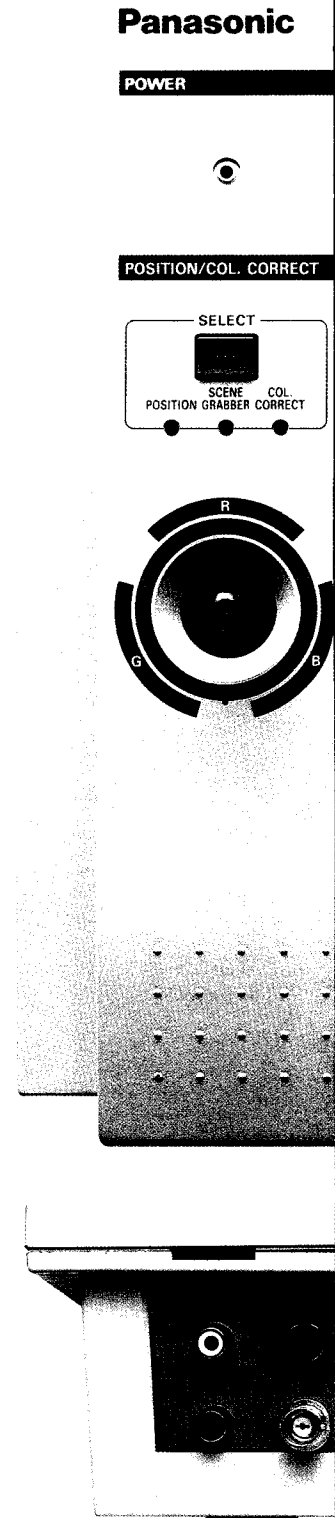
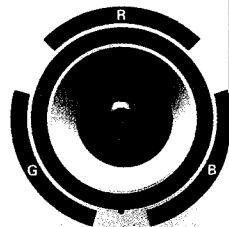
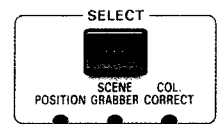
External Control

- Equipped with RS-422 serial controls and GPI terminal for automatic triggering of edit controllers

Panasonic

POWER

POSITION/COL. CORRECT



Advanced video editing

DIGITAL
Digital AV Mixer WJ-MX20

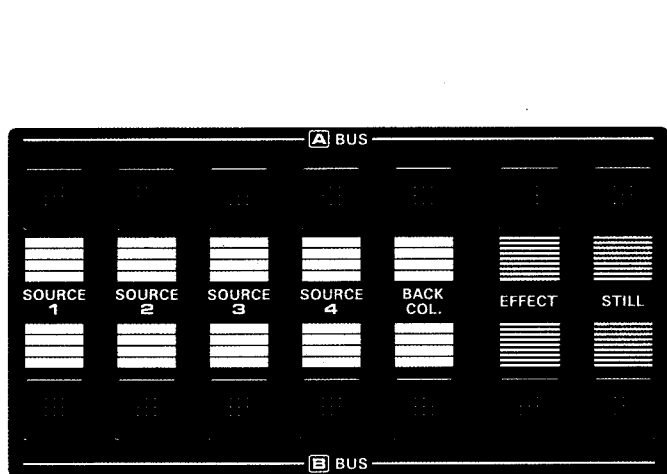
TRANSITION SELECT



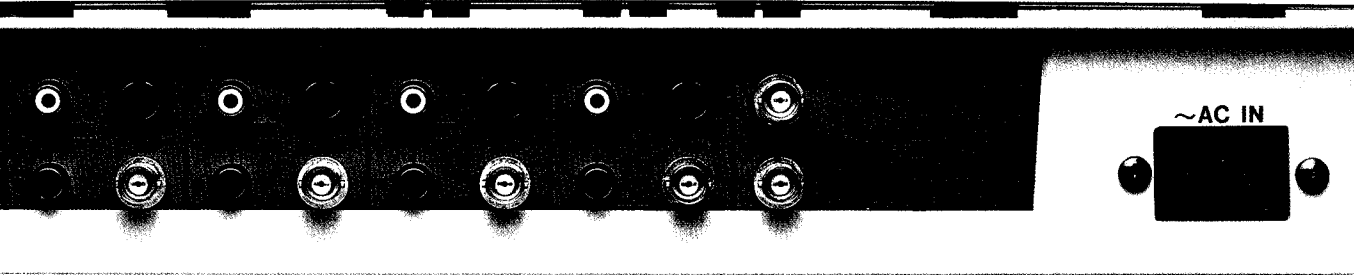
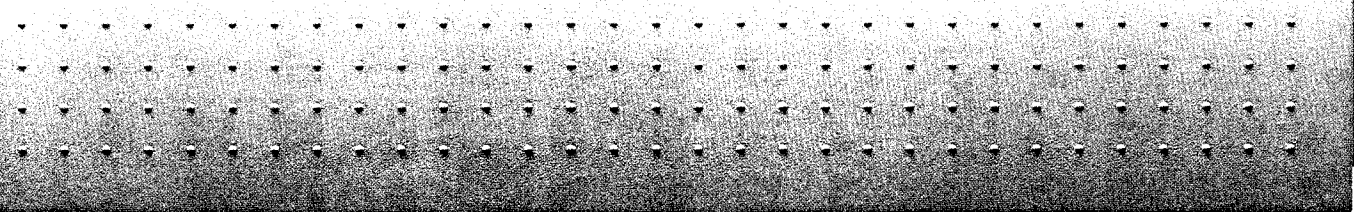
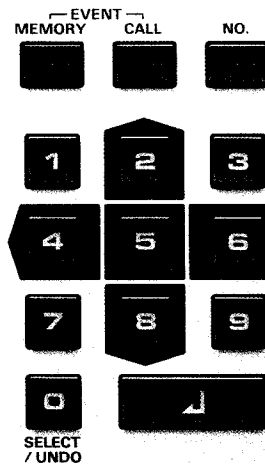
ON SCREEN DISPLAY SETTING



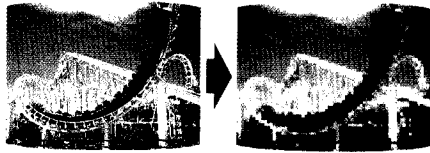
SOURCE SELECT



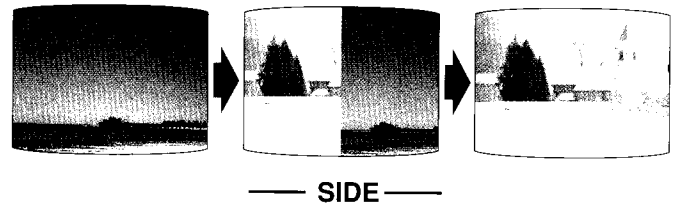
MODE SETTING



Mosaic



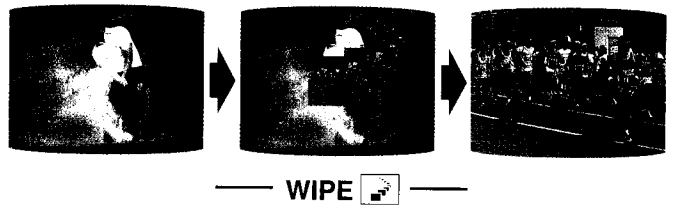
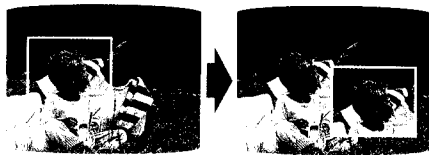
Wipe Description



Chroma Key



Scene Grabber



Special Mode Description (Compression+Wipe [Icon])



Multi Wipe



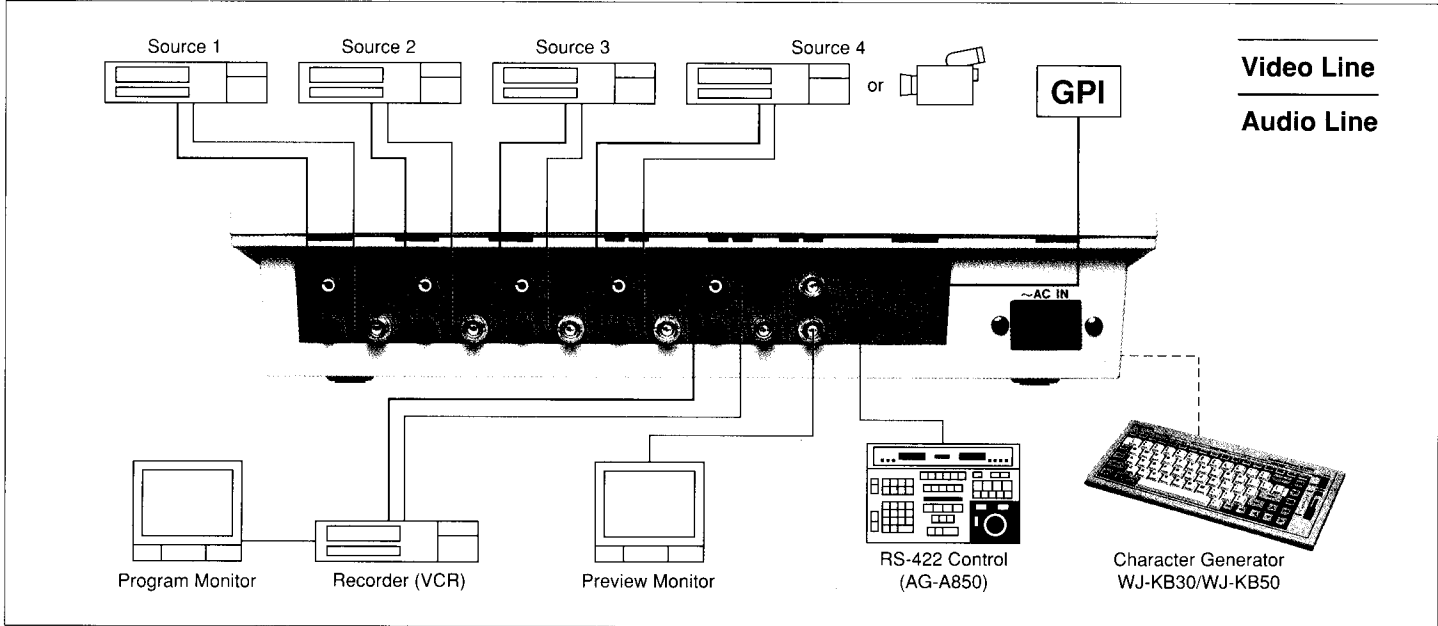
Basic Wipe Pattern

Wipe Patterns	BASIC	MULTI 1	MULTI 2	MULTI 3	Wipe Patterns	BASIC	MULTI 1	MULTI 2	MULTI 3	Wipe Patterns	BASIC	MULTI 1	MULTI 2	MULTI 3	
[Icon]	[Pattern]	[Pattern]	[Pattern]	[Pattern]	[Icon]	[Pattern]	[Pattern]	[Pattern]	[Pattern]	[Icon]	[Pattern]	[Pattern]	[Pattern]	[Pattern]	
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	[Pattern]	[Pattern]	[Pattern]	[Pattern]		[Pattern]	[Pattern]	[Pattern]	[Pattern]		[Pattern]	[Pattern]	[Pattern]	[Pattern]	[Pattern]

Special Wipe Pattern



SYSTEM CONNECTION



SPECIFICATIONS

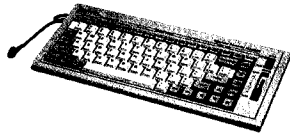
Source Input	x4 (SOURCE 1/4); Video Input: 1.0 V [p-p] 75 Ω NTSC composite signal, BNC connector Y/C Input: Y signal: 1.0 V [p-p] 75 Ω, C signal: 0.286 V [p-p] 75 Ω, Mini Din 4-pin connector Audio Input: -6 dB/20 kΩ pin jack (L/R)
Character Input	x1 (TITLE); 10-pin connector for optional Character Generator WJ-KB30, WJ-KB50
Recording Output	x1 (REC OUT); Video Output: 1.0 V [p-p] 75 Ω NTSC composite signal, BNC connector Y/C Output: Y signal: 1.0 V [p-p] 75 Ω, C signal: 0.286 V [p-p] 75 Ω, Mini Din 4-pin connector Audio Output: -6 dB/1 kΩ pin jacks (L/R)
Preview Output	Video Output: 1.0 V [p-p] 75 Ω NTSC composite signal, BNC connector
Back Color	White, Yellow, Cyan, Green, Magenta, Red, Blue, Black
Wipe Patterns	up to 298 patterns
External Control	RS-422, GPI
Video Gain	Unity
Horizontal Resolution	460 lines
S/N (typical)	Video: 50 dB (Y/C) Audio: 60 dB
Power Source	120 V AC, 60 Hz
Power Consumption	Approx. 15 W
Ambient Operating Temperature	32° F ~ 104° F (0° C ~ 40° C)
Ambient Operating Humidity	Less than 90 %
Dimensions	16-9/16" (W) × 3-7/16" (H) × 11-13/16" (D) [420 (W) × 88 (H) × 300 (D) <mm>]
Weight	5.5 lbs. (2.5 kg)

STANDARD ACCESSORY

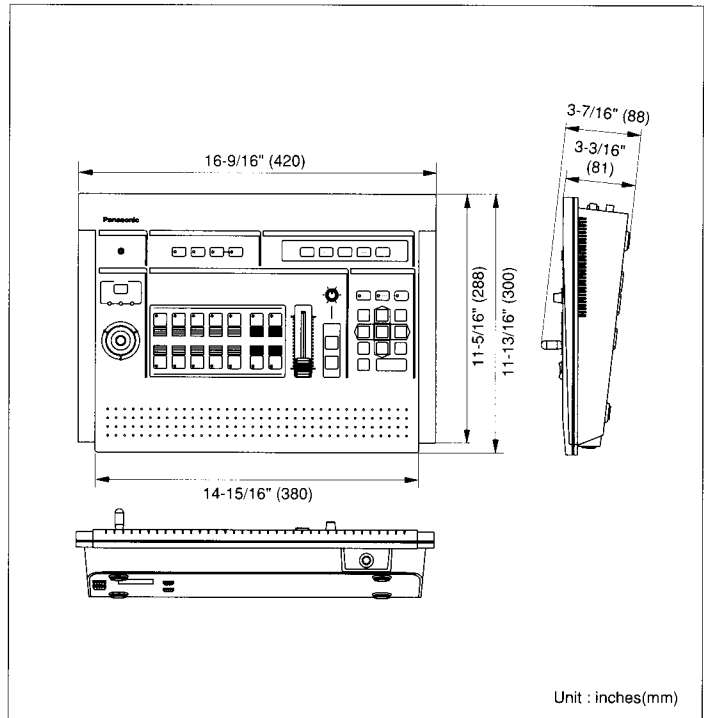
- RS-422 Control Cable

OPTIONAL ACCESSORY

Character Generator
WJ-KB30
WJ-KB50



DIMENSIONAL DRAWINGS



- All TV pictures are simulated.
- Weights and dimensions are approximate.
- Specifications are subject to change without notice.

Panasonic

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