

# Fermata Dragonfly

## Operation Instructions



### Technical Specifications

Operating Voltage: 100V (Requires a step-down transformer).

Standard: NTSC

Inputs: 2

Outputs: 2

Effect Controls: 37 (34x Switched Knobs & 3x Switches).

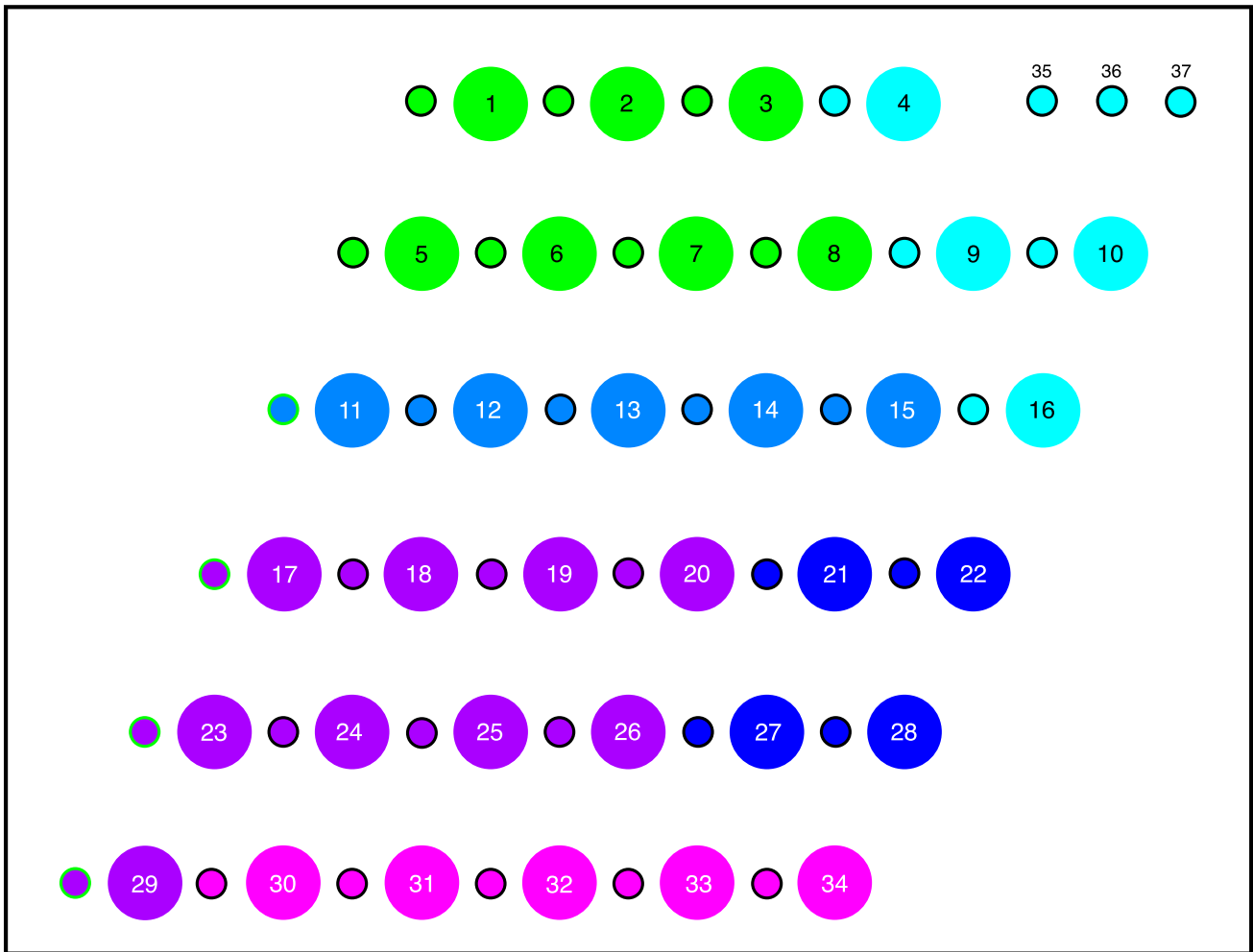
Original Effect Controls: 9

### Operation

When operating this unit, utilize the effect controls on top in concert with the original controls at the front. There are 37 effect controls in total: 34 of which are knobs that are switched into, and out of circuit utilizing the switches present at the left of each knob.

Consider these controls as a patch matrix, where engaging multiple controls at once creates an alchemy of new effects. Exploration and experimentation are the primary paths to unlocking the most interesting effects from your unit - serendipity is your greatest ally.





## Effect Controls

In the above diagram, switches outlined in **black** indicate two-position switches (on-off). These are in the off position (down) by default. Switches outlined in **green** indicate a three-position switch (on-off-on). These switches select between two different textures (up and down), and are in the off position (middle) by default.

The effect controls are arranged in clusters which are based on their purpose and characteristics. Effects within certain clusters may still share some similarities to those in other clusters.

**Green** = **Wipe Corruption** (when in Effect mode, signal from the Wipe section is injected).

**Cyan** = **Utility** (primarily used for fine-tuning colour, texture and brightness).

**Light Blue** = **Hyperblur**

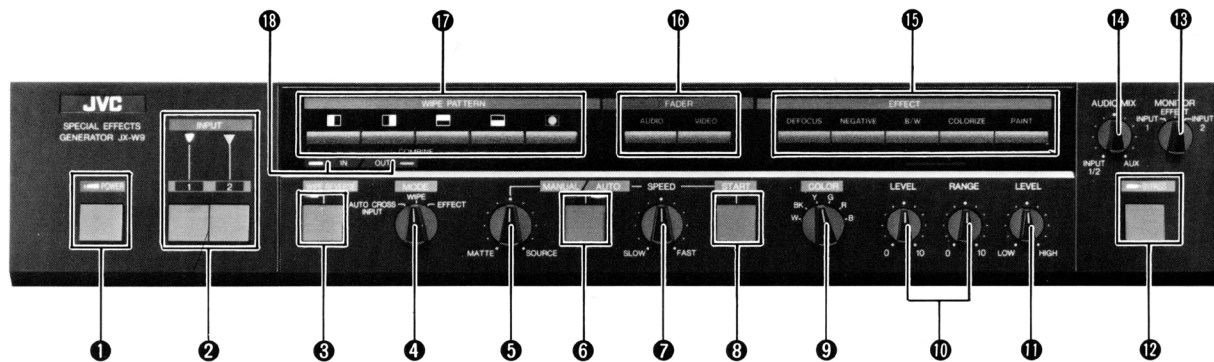
**Dark Blue** = **Modulation**

**Purple** = **Striation**

**Fuchsia** = **Rainbow**

Each effect, when used independently, may be subtle or intense, however the real magic begins when multiple effects are switched into circuit at once and combined. Try using the effect controls both with, and without the unit's original effects activated.

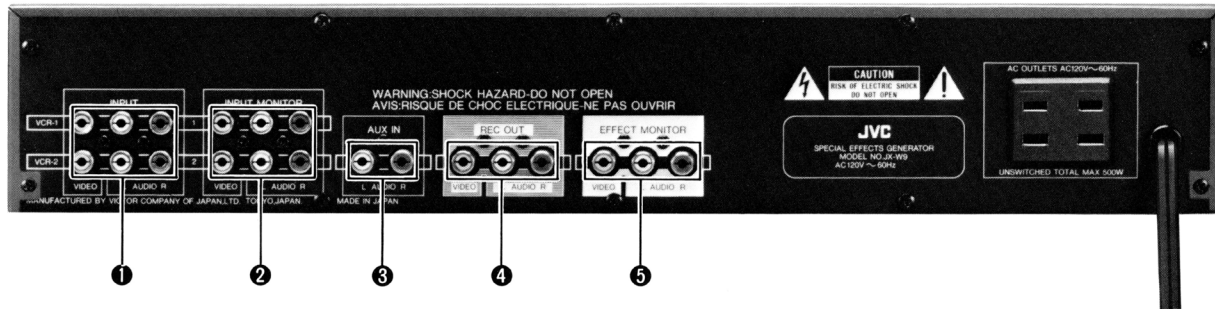
## Front Panel



- 1 POWER switch and indicator**  
Press to turn the power on; the indicator lights. Pressing it again turns the power off.
- 2 INPUT select switches and indicators**  
Press to select the input source, VCR-1 or VCR-2; the selected Input indicator lights.
- 3 WIPE REVERSE switch and indicator**  
When wiping, press to replace the input source picture with the background picture\*; when this switch is pressed to on, its indicator lights.
- 4 MODE select knob**  
Select the desired operation, (AUTO CROSS INPUT, WIPE or EFFECT), with this knob.
- 5 MANUAL control knob**  
Used to perform wiping or fading manually. Turning counterclockwise increases the background color, and turning clockwise increases the input source picture.
- 6 MANUAL/AUTO select switch and indicators**  
Press this switch to select either automatic or manual wiping/fading. The selected mode indicator lights.
- 7 SPEED control knob**  
Adjust the automatic wiping/fading speed with this knob. Turning it clockwise increases the speed, and turning counterclockwise decreases it. (The wiping/fading speed can be varied between 1 and 6 seconds.)
- 8 START switch and indicator**  
Press to start wiping or fading automatically. The indicator blinks when the switch is pressed, and goes off when the operation is finished.
- 9 COLOR select knob**  
Select the background color with this when wiping (6 colors — white, black, yellow, green, red or blue), coloring (4 colors — yellow, green, red or blue), and fading (black or white).
- 10 COLORIZE control knobs**  
**LEVEL:** Adjusts the color intensity (brightness) of the section to be colorized.  
**RANGE:** Adjusts the range of colorizing section.
- 11 PAINT LEVEL control knob**  
Adjusts the color brightness of any area being painted.
- 12 BYPASS switch and indicator**  
Press to deactivate all effects (including wipe or fade) so that the input source signal is sent directly to the output terminal; the indicator lights.
- 13 MONITOR select knob**  
Select the signal to be output to the monitor TV for checking or monitoring one of the input source pictures, or the processed picture. (N.B.: Monitor TV must be connected to the EFFECT MONITOR output terminals.)
- 14 AUDIO MIX knob**  
Balances the sound from the input source with the sound from external audio source equipment connected to the AUX input terminals on the rear panel.
- 15 EFFECT select switches**  
To select the desired effect from DEFOCUS, NEGATIVE, B/W, COLORIZE and PAINT.
- 16 FADER select switches**  
To select the fading source with the AUDIO only switch, the VIDEO only switch, or both.
- 17 WIPE PATTERN select switches**  
Select from among 5 different wiping patterns with these switches. Except for the circle, the other 4 patterns can be used in any combination.
- 18 Source status indicator (IN/OUT)**  
The IN indicator lights when the input source picture is in the "in" position on the screen. The OUT indicator lights when the input source picture is in the "out" position and the background picture\* is in the "in" position.

\*This shows the picture without a source input picture, that is, the matte background color, fade-out picture, or processed picture.

## Rear Panel



### ❶ INPUT terminals (VCR-1/VCR-2)

Connect the playback VCRs, etc. to these terminals. The upper terminals correspond to the INPUT-1 button on the front panel, and the lower terminals to the INPUT-2 button.

### ❷ INPUT MONITOR output terminals (VCR-1/VCR-2)

These terminals are used to monitor the input source from the INPUT terminals directly. The upper terminals are for INPUT-1 source, and the lower terminals for INPUT-2 source.

### ❸ AUX IN terminals

Connect external audio equipment to these terminals, for mixing or replacing the audio signal of the input sources with the outboard audio source.

### ❹ REC OUT terminals

Connect the recording VCR to these terminals.

### ❺ EFFECT MONITOR output terminals

Connect the monitor TV to these terminals. When the MONITOR OUT selector is set to EFFECT, the effected picture can be monitored, and when the INPUT 1 or 2 is selected, the input source picture can be monitored directly.

## Getting Started

Begin by connecting a video source to the *VCR-1* input terminal (rear panel [1]), and connect your output to the *REC OUT* output terminal (rear panel [4]).

Plug the unit into your step-down transformer's 100V output, and press the *Power* button (front panel [1]).

Take the unit out of *Bypass* (front panel [12]), switch the *Mode* to *Effect* (front panel [4]), and ensure that the *Manual/Auto* button is set to *Manual* (front panel [6]). Select the circle pattern from the *Wipe Pattern* section (front panel [17]). Turn the *Manual* knob (front panel [5]) fully to the left, towards *Matte*. Activate the *Colorize* effect (front panel [15]), and adjust *Level & Range* knobs to your liking. Select a colour by switching the *Color* knob (front panel [9]) to *Y*, *G*, *R* or *B*.

Now bring an effect knob into circuit by toggling its switch (number 27 for example) to the *On* position (up). Slowly turn the knob from its minimum position to its maximum position and observe the effect.

Experiment with different combinations of effect controls, and explore which controls create different effects, depending upon which of the unit's original effects are engaged.



## Front Panel



## Rear Panel



## Care

To best preserve the longevity of the electronic components within the unit, turn it off when you have finished using it. This unit is recommended for studio use only.

Clean the painted surface gently with a dry microfiber cloth - optical cloth works well.

