Fermata Firefly
Operation Instructions

Technical Specifications

Operating Voltage: 100V (Requires a step-down transformer).
Standard: NTSC
Inputs: 2
Outputs: 2
Effect Controls: 38 (32x Switched Knobs & 6x Switches).
Original Effect Controls: 5

Operation

When operating this unit, utilize the effect controls on top in concert with the original controls at the front. There are 38 effect controls in total: 32 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.

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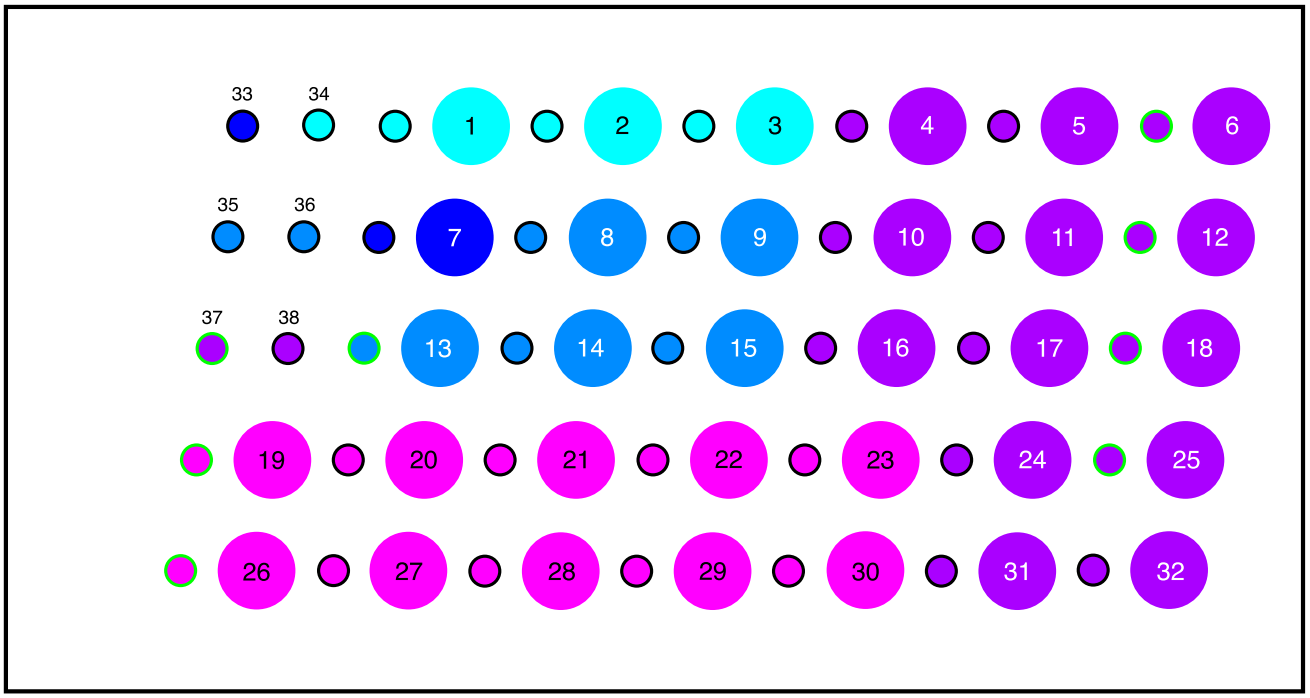

Effect Controls

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.

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.

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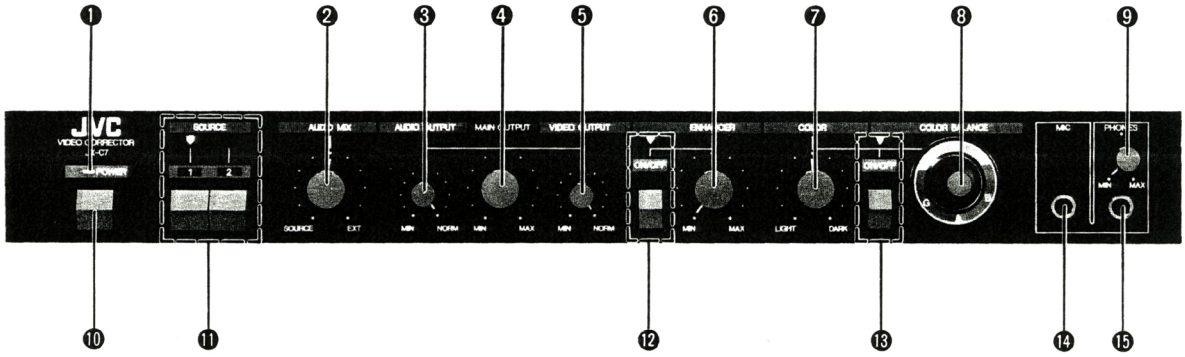
Front panel



❶ POWER indicator
This indicator lights when the POWER button is pressed.

❷ AUDIO MIX adjustment knob
Adjust the balance of mixing level between the sound from the selected source (VCR-1 or VCR-2) and the sound from the equipment connected to rear panel EXT (audio) input terminals (or microphone) with this knob. In this case, both L and R channel signals from the SOURCE and EXT inputs will be adjusted simultaneously.

❸ AUDIO OUTPUT adjustment knob
Audio output of the signal controlled by the AUDIO MIX knob can be adjusted to the appropriate level with this knob. And fade-in or fade-out of audio signal is also possible with this knob. Usually set to NORM position.

❹ MAIN OUTPUT adjustment knob
The audio and video output level from this unit can be adjusted with this knob. And the fade-in or fade-out of master level is also possible. When the picture is too dark, turn this knob clockwise to get a brighter picture. Usually set to center click position.

❺ VIDEO OUTPUT adjustment knob
The output level of the video signal selected by the SOURCE button can be adjusted with this knob. And fade-in or fade-out of the video signal is also possible with this. Usually set to NORM position.

❻ ENHANCER adjustment knob
Correct the detail of a video image with this knob to reduce signal loss on dubbing. This circuit effects the signals output from both MONITOR output and REC output terminals on the rear panel.

❼ COLOR adjustment knob
Adjust the color intensity of video image with this knob. Turn clockwise to increase the color intensity and counterclockwise to decrease it. Usually set it to the center click position.

❽ COLOR BALANCE adjustment knob
Correct poor color balance (tint) with this knob. While watching the monitor screen, make adjustments until the purest white is achieved.

❾ Headphones level adjustment knob
Adjust the headphone volume level when monitoring with headphones.

❿ POWER button
Press this button to turn the power on or off.

⓫ SOURCE select buttons and indicators
Press to select the source from VCR-1 or VCR-2 when dubbing or monitoring. They correspond to the equipment connected to the rear panel terminals; selected source indicator lights.

⓬ ENHANCER ON/OFF button and indicator
Press this button to activate the enhancer circuit; the indicator lights. To release this function, press it again; the indicator goes off.

⓭ COLOR and COLOR BALANCE ON/OFF button and indicator
Press to activate the color intensity and tint (white balance) adjustments. When this button is pressed, the indicator lights.

⓮ MIC (microphone) jack
Connect the microphone to this jack when over-dubbing or mixing. In this case, the EXT input signal is switched off automatically.

⓯ PHONES (headphones) jack
Headphones can be connected to this jack to monitor the sound output from the MONITOR output or REC output terminals.

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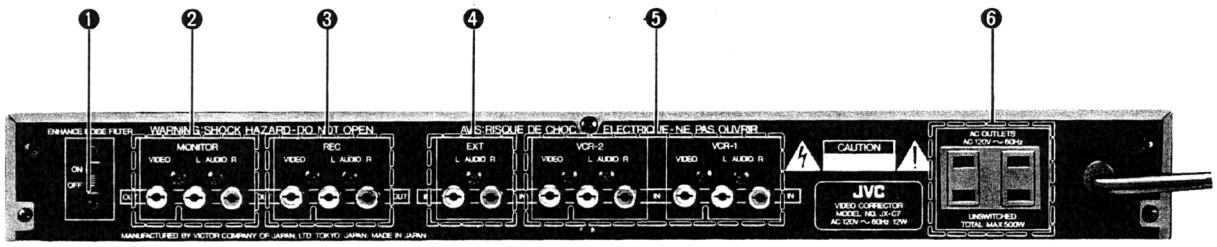
Rear panel



❶ ENAHNCE NOISE FILTER switch
Set this switch to ON to reduce the noise level which is increased on the dark image when the enhancer circuit is activated.

❷ MONITOR output terminals
Connect the monitor TV to these terminals. These are also connected to the input terminals of the VCR.

❸ REC output terminals
Connect the input terminals of the VCR to these terminals to dub from this unit.

❹ EXT input terminals
Connect audio equipment to these terminals to mix or edit with the external sound source. When a microphone is inserted into MIC jack on the front panel, the signal input from these terminals is switched off automatically.

❺ VCR-1 and VCR-2 input terminals
Connect the output terminals of VCRs to these terminals to be selected by the SOURCE select buttons on the front panel.

❻ AC OUTLETS (UNSWITCHED)
These AC outlets are not interlocked with the power button of this unit. Connect unit with a total power consumption less than 500 W.

Getting Started

Begin by connecting a video source to the *VCR-1* input terminal (rear panel [5]), and connect your output to the *REC* output terminal (rear panel [3]).

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

Adjust the *Main Output* (front panel [4]) and *Video Output* (front panel [5]) knobs until you are satisfied with the brightness level of the video. Press the *Enhancer* button (front panel [12]) and turn the *Enhancer* knob (front panel [6]) to its maximum setting. Do the same with the *Color* button (front panel [13]) and knob (front panel [7]), and center the Color Balance joystick (front panel [8]).

Now bring an effect knob into circuit by toggling its switch (number 32 for example) to the *On* position (up). Slowly turn the knob from its minimum position to its maximum position and observe the effect. Adjust the *Enhancer, Color* & *Color Balance* controls to your liking.

Experiment with different combinations of effect controls in this manner, and explore which controls create different effects, depending on which of the unit's original effects are engaged. Try the effect controls with the *Enhancer* and *Color* controls both active and inactive, or with one of them active, and the other inactive. The *Enhance Noise Filter* (rear panel [1]) further extends your palette by switching it On or Off.

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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.

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