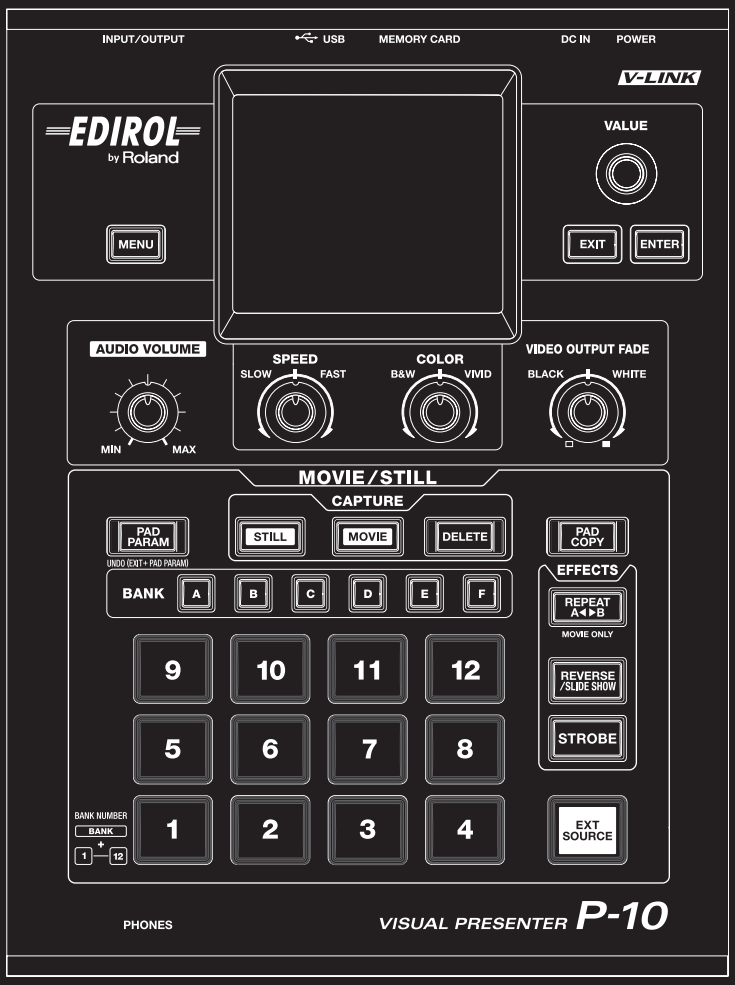


P-10

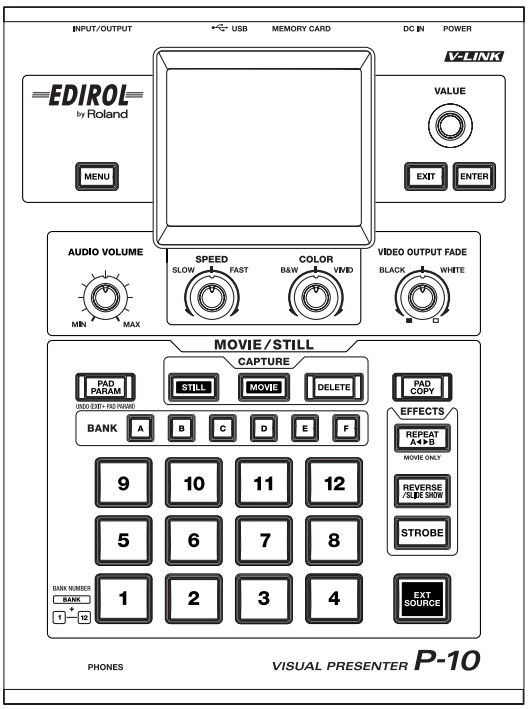
VISUAL PRESENTER

Owner's Manual

EDIROL by Roland

Thank you and congratulations on your choice of the Edirol P-10 visual presenter.

Before using this unit, carefully read the sections entitled: "USING THE UNIT SAFELY" and "IMPORTANT NOTES" (p. 4; p. 6). These sections provide important information concerning the proper operation of the unit. Additionally, in order to feel assured that you have gained a good grasp of all of your new unit's features, you should read the Owner's manual in its entirety. The manual should be saved and kept on hand as a convenient reference.



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For the U.K.

IMPORTANT: THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE.

BLUE: NEUTRAL
BROWN: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.
The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.
Under no circumstances must either of the above wires be connected to the earth terminal of a three pin plug.

USING THE UNIT SAFELY

INSTRUCTIONS FOR THE PREVENTION OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

About ⚠WARNING and ⚠CAUTION Notices

⚠**WARNING**	Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly.
⚠**CAUTION**	Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly. * Material damage refers to damage or other adverse effects caused with respect to the home and all its furnishings, as well to domestic animals or pets.

About the Symbols

⚠	The △ symbol alerts the user to important instructions or warnings.The specific meaning of the symbol is determined by the design contained within the triangle. In the case of the symbol at left, it is used for general cautions, warnings, or alerts to danger.
	The ⃠ symbol alerts the user to items that must never be carried out (are forbidden). The specific thing that must not be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the unit must never be disassembled.
	The ● symbol alerts the user to things that must be carried out. The specific thing that must be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the power-cord plug must be unplugged from the outlet.

ALWAYS OBSERVE THE FOLLOWING

⚠WARNING

- Do not open (or modify in any way) the unit or its AC adaptor.

- Do not attempt to repair the unit, or replace parts within it (except when this manual provides specific instructions directing you to do so). Refer all servicing to your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page.

- Never use or store the unit in places that are:
  - Subject to temperature extremes (e.g., direct sunlight in an enclosed vehicle, near a heating duct, on top of heat-generating equipment); or are
  - Damp (e.g., baths, washrooms, on wet floors); or are
  - Humid; or are
  - Exposed to rain; or are
  - Dusty; or are
  - Subject to high levels of vibration.

- Make sure you always have the unit placed so it is level and sure to remain stable. Never place it on stands that could wobble, or on inclined surfaces.

⚠WARNING

- Be sure to use only the AC adaptor supplied with the unit. Also, make sure the line voltage at the installation matches the input voltage specified on the AC adaptor's body. Other AC adaptors may use a different polarity, or be designed for a different voltage, so their use could result in damage, malfunction, or electric shock.

- Use only the attached power-supply cord. Also, the supplied power cord must not be used with any other device.

- Do not excessively twist or bend the power cord, nor place heavy objects on it. Doing so can damage the cord, producing severed elements and short circuits. Damaged cords are fire and shock hazards!

- This unit, either alone or in combination with an amplifier and headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level, or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should immediately stop using the unit, and consult an audiologist.

⚠WARNING

- Do not allow any objects (e.g., flammable material, coins, pins); or liquids of any kind (water, soft drinks, etc.) to penetrate the unit.

- Immediately turn the power off, remove the AC adaptor from the outlet, and request servicing by your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page when:
  - The AC adaptor, the power-supply cord, or the plug has been damaged; or
  - If smoke or unusual odor occurs
  - Objects have fallen into, or liquid has been spilled onto the unit; or
  - The unit has been exposed to rain (or otherwise has become wet); or
  - The unit does not appear to operate normally or exhibits a marked change in performance.

- In households with small children, an adult should provide supervision until the child is capable of following all the rules essential for the safe operation of the unit.

- Protect the unit from strong impact.
  (Do not drop it!)

- Do not force the unit's power-supply cord to share an outlet with an unreasonable number of other devices. Be especially careful when using extension cords—the total power used by all devices you have connected to the extension cord's outlet must never exceed the power rating (watts/amperes) for the extension cord. Excessive loads can cause the insulation on the cord to heat up and eventually melt through.

- Before using the unit in a foreign country, consult with your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page.

- DO NOT play a CD-ROM disc on a conventional audio CD player. The resulting sound may be of a level that could cause permanent hearing loss. Damage to speakers or other system components may result.

⚠CAUTION

- The unit and the AC adaptor should be located so their location or position does not interfere with their proper ventilation.

- Always grasp only the plug on the AC adaptor cord when plugging into, or unplugging from, an outlet or this unit.

- At regular intervals, you should unplug the AC adaptor and clean it by using a dry cloth to wipe all dust and other accumulations away from its prongs. Also, disconnect the power plug from the power outlet whenever the unit is to remain unused for an extended period of time. Any accumulation of dust between the power plug and the power outlet can result in poor insulation and lead to fire.

- Try to prevent cords and cables from becoming entangled. Also, all cords and cables should be placed so they are out of the reach of children.

- Never climb on top of, nor place heavy objects on the unit.

- Never handle the AC adaptor or its plugs with wet hands when plugging into, or unplugging from, an outlet or this unit.

- Before moving the unit, disconnect the AC adaptor and all cords coming from external devices.

- Before cleaning the unit, turn off the power and unplug the AC adaptor from the outlet.

- Whenever you suspect the possibility of lightning in your area, disconnect the AC adaptor from the outlet.

- Keep the SD card theft prevention cover attachment screws that you remove, the included SD card theft prevention cover, and the SD card in a safe place out of children's reach, so there is no chance of them being swallowed accidentally.

IMPORTANT NOTES

Power Supply

- Do not connect this unit to same electrical outlet that is being used by an electrical appliance that is controlled by an inverter (such as a refrigerator, washing machine, microwave oven, or air conditioner), or that contains a motor. Depending on the way in which the electrical appliance is used, power supply noise may cause this unit to malfunction or may produce audible noise. If it is not practical to use a separate electrical outlet, connect a power supply noise filter between this unit and the electrical outlet.
- The AC adaptor will begin to generate heat after long hours of consecutive use. This is normal, and is not a cause for concern.
- Before connecting this unit to other devices, turn off the power to all units. This will help prevent malfunctions and/or damage to speakers or other devices.

Placement

- Using the unit near power amplifiers (or other equipment containing large power transformers) may induce hum. To alleviate the problem, change the orientation of this unit; or move it farther away from the source of interference.
- This device may interfere with radio and television reception. Do not use this device in the vicinity of such receivers.
- Noise may be produced if wireless communications devices, such as cell phones, are operated in the vicinity of this unit. Such noise could occur when receiving or initiating a call, or while conversing. Should you experience such problems, you should relocate such wireless devices so they are at a greater distance from this unit, or switch them off.
- Do not expose the unit to direct sunlight, place it near devices that radiate heat, leave it inside an enclosed vehicle, or otherwise subject it to temperature extremes. Excessive heat can deform or discolor the unit.
- When moved from one location to another where the temperature and/or humidity is very different, water droplets (condensation) may form inside the unit. Damage or malfunction may result if you attempt to use the unit in this condition. Therefore, before using the unit, you must allow it to stand for several hours, until the condensation has completely evaporated.
- Depending on the material and temperature of the surface on which you place the unit, its rubber feet may discolor or mar the surface.
  You can place a piece of felt or cloth under the rubber feet to prevent this from happening. If you do so, please make sure that the unit will not slip or move accidentally.

Maintenance

- For everyday cleaning wipe the unit with a soft, dry cloth or one that has been slightly dampened with water. To remove stubborn dirt, use a cloth impregnated with a mild, non-abrasive detergent. Afterwards, be sure to wipe the unit thoroughly with a soft, dry cloth.
- Never use benzine, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

Additional Precautions

- Unfortunately, it may be impossible to restore the contents of data that was stored on a SD card or internal memory once it has been lost. Roland Corporation assumes no liability concerning such loss of data.
- Use a reasonable amount of care when using the unit's buttons, sliders, or other controls; and when using its jacks and connectors. Rough handling can lead to malfunctions.
- Never strike or apply strong pressure to the display.
- A small amount of noise may be heard from the display during normal operation.
- When connecting / disconnecting all cables, grasp the connector itself—never pull on the cable. This way you will avoid causing shorts, or damage to the cable's internal elements.
- To avoid disturbing your neighbors, try to keep the unit's volume at reasonable levels. You may prefer to use headphones, so you do not need to be concerned about those around you (especially when it is late at night).
- When you need to transport the unit, package it in the box (including padding) that it came in, if possible. Otherwise, you will need to use equivalent packaging materials.
- Some connection cables contain resistors. Do not use cables that incorporate resistors for connecting to this unit. The use of such cables can cause the sound level to be extremely low, or impossible to hear. For information on cable specifications, contact the manufacturer of the cable.

Using the SD Card

- Carefully insert the SD card all the way in—until it is firmly in place.
- Never touch the terminals of the SD card. Also, avoid getting the terminals dirty.
- SD card are constructed using precision components; handle the cards carefully, paying particular note to the following.
  - To prevent damage to the cards from static electricity, be sure to discharge any static electricity from your own body before handling the cards.
  - Do not touch or allow metal to come into contact with the contact portion of the cards.
  - Do not bend, drop, or subject cards to strong shock or vibration.
  - Do not keep cards in direct sunlight, in closed vehicles, or other such locations.
  - Do not allow cards to become wet.
  - Do not disassemble or modify the cards.

Handling CD-ROMs

- Avoid touching or scratching the shiny underside (encoded surface) of the disc. Damaged or dirty CD-ROM discs may not be read properly. Keep your discs clean using a commercially available CD cleaner.

Copyright

- Recording, duplication, distribution, sale, lease, performance, or broadcast of copyrighted material (musical works, visual works, broadcasts, live performances, etc.) belonging to a third party in part or in whole without the permission of the copyright owner is forbidden by law.
- Do not use this unit for purposes that could infringe on a copyright held by a third party. We assume no responsibility whatsoever with regard to any infringements of third-party copyrights arising through your use of this unit.
- Use of the image supplied with this product for any purpose other than private, personal enjoyment without the permission of the copyright holder is prohibited by law. Additionally, this data must not be copied, nor used in a secondary copyrighted work without the permission of the copyright holder.
- The explanations in this manual include illustrations that depict what should typically be shown by the display. Note, however, that your unit may incorporate a newer, enhanced version of the system (e.g., includes newer sounds), so what you actually see in the display may not always match what appears in the manual.
- This product is compatible with regular NTSC or PAL video signal. In case an irregular signal is input, it may obstruct the stable operation of this product.
- It is possible on this product to create video sequences with extremely quick switching or ON/OFF of effects. Depending on your physical conditions, such video sequence may cause medical problems, such as a headache, etc. It is prohibited to create video sequence that may cause such problems. Roland or Edirol is not responsible for any medical problems you or your audiences/spectators may experience caused by such video sequences.

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* Mac OS is a trademark of Apple Inc.

* All product names mentioned in this document are trademarks or registered trademarks of their respective owners.

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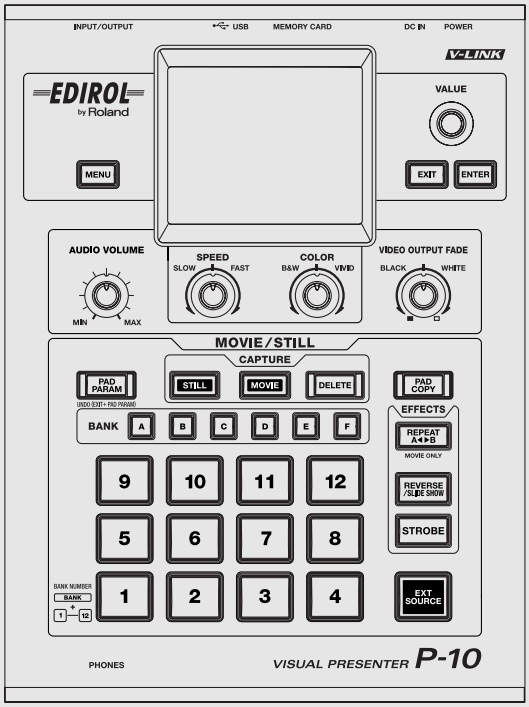
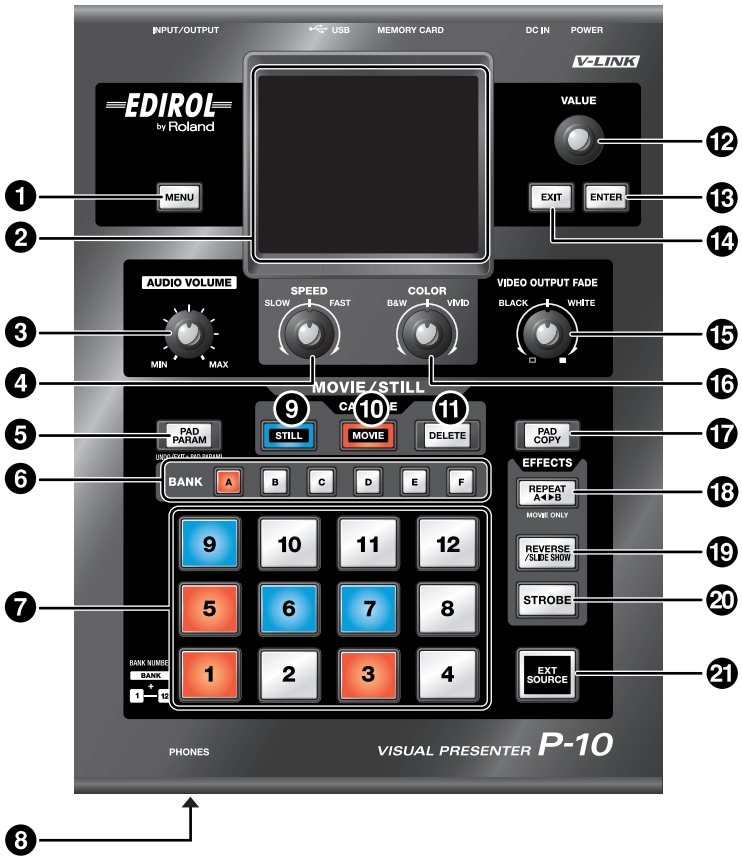
1. Introduction



Panel Descriptions

Top Panel



❶ [MENU] Button

Use to make settings for the P-10's main functions (p. 54).

❷ Display

Shows information related to the current operation and displays images.

❸ [AUDIO VOLUME] Knob

Adjusts the level of the volume from the OUTPUT jack.

❹ [SPEED] Knob

Adjusts the movie playback speed (p. 28).

❺ [PAD PARAM] Button

Use to make parameter settings for each PAD (p. 41).

❻ BANK [A]–[F] Buttons

Press to select a bank (p. 26).

❼ PADs [1]–[12]

PADs [1]–[12] perform the following functions:

- Play back images (p. 26).

  You can tell what type of image is assigned to a pad by looking at the pad color.

Pad	Assigned Image Type
Lit Red	Movie
Lit Blue	Still Image
Unlit	No Images Assigned

- While holding down a BANK [A]–[F] button, press a PAD [1]–[12] to change the BANK number (p. 26).

❽ PHONES Jack

Connect headphones to this jack.

❾ CAPTURE [STILL] Button

Use to capture still images (p. 35).

❿ CAPTURE [MOVIE] Button

Use to capture movies (p. 34).

⓫ [DELETE] Button

Delete pad information or images (p. 36).

⓬ [VALUE] Knob

Select setting items or change setting values (p. 22).

⓭ [ENTER] Button

Execute settings that you have specified.

⓮ [EXIT] Button

The [EXIT] button enables you to do the following operations:

- Return to the previous screen from the MENU screen or PAD PARAMETER screen.
- Stop image playback when an image is playing.

⓯ [VIDEO OUTPUT FADE] Knob

Use to fade images to black or white (p. 29).

⓰ [COLOR] Knob

Adjusts the color of the image (p. 28).

⓱ [PAD COPY] Button

Copy pad parameters of images and audio assigned to a pad and assign the copied data to another pad (p. 48).

⓲ [REPEAT A ◀▶ B] Button

Repeat a section of the movie file (p. 29).

⓳ [REVERSE/SLIDE SHOW] Button

Function	Description	Page
REVERSE	Plays a movie in reverse during playback.	p. 30
SLIDE SHOW	Displays the still images assigned to a pad as a slide show.	p. 30

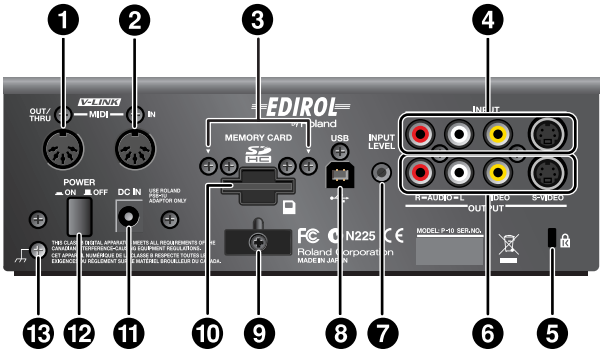
⓴ [STROBE] Button

Apply strobe (play back images with short intervals between frames, which creates a stop motion feel) (p. 31).

㉑ [EXT SOURCE] Button

Display an image from an external device connected to the INPUT jack on the P-10's display (p. 26).

Rear Panel



❶ MIDI OUT/THRU Connector

Connect a MIDI device that you want to control from the P-10.

❷ MIDI IN Connector

Connect a MIDI device that you want to use to control the P-10.

❸ SD Card Cover Attachment Screws

Use the screws to attach the SD card theft prevention cover.

❹ INPUT Jacks (AUDIO L/R, VIDEO, S-VIDEO)

Connect an external device to display its images on the P-10's display or capture images using the P-10.

❺ Security Lock ( )

Attach a security wire here to prevent theft of the P-10.
http://www.kensington.com/

❻ OUTPUT Jacks (AUDIO L/R, VIDEO, S-VIDEO)

Connect an external device for displaying images, such as a display or projector.

❼ [INPUT LEVEL] Knob

Adjusts the audio level of the INPUT jacks. You can check the audio level with the "Level Meter" (p. 59).

❽ USB Connector

Connect the P-10 to a computer and transfer files back and forth.

❾ Cord Hook

To prevent inadvertent disruption of power to your unit (should the plug be pulled out accidentally), and to avoid applying undue stress to the DC IN jack, anchor the power cord using the cord hook (p. 17).

❿ MEMORY CARD (SD Card) Slot

Insert an SD card here (p. 17).

⓫ DC IN Jack

Connect the supplied AC adaptor here (p. 17).

⓬ POWER Switch

Press this switch to turn the power on and off (p. 19).

⓭ Ground Terminal

Depending on the circumstances of a particular setup, you may experience a discomforting sensation, or perceive that the surface feels gritty to the touch when you touch this device, microphones connected to it, or the metal portions of other objects, such as guitars. This is due to an infinitesimal electrical charge, which is absolutely harmless. However, if you are concerned about this, connect the ground terminal (see figure) with an external ground. When the unit is grounded, a slight hum may occur, depending on the particulars of your installation. If you are unsure of the connection method, contact your nearest Roland Service Center or an authorized Roland distributor, as listed on the "Information" page.

Unsuitable places for connection:

- Water pipes (may result in shock or electrocution)
- Gas pipes (may result in fire or explosion)
- Telephone-line ground or lightning rod (may be dangerous in the event of lightning)

Before You Start

Using the SD Card

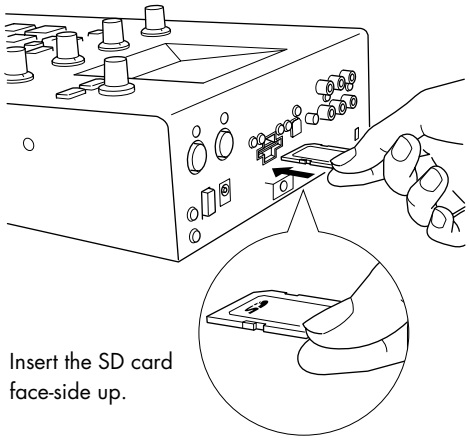
The P-10 won't function unless an SD card has been inserted. Make sure you insert an SD card before using the unit.

MEMO For details about the types of SD cards that we recommend using with the P-10, see "Recommended SD Cards" (p. 67).

Inserting and Removing the SD Card

Inserting the SD Card

Push the SD card into the MEMORY CARD (SD Card) slot until you hear a light clicking sound.

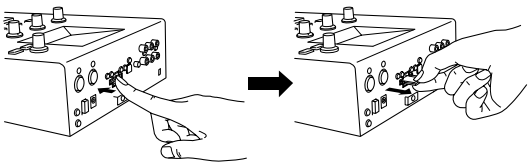


NOTE Never insert or remove an SD card while this unit's power is on. Doing so may corrupt the data on the SD card.

NOTE Carefully insert the SD card all the way in—until it is firmly in place.

Removing the SD Card

Push the SD card into the slot, and then pull the SD card out when it pops out.



MEMO The P-10 comes with an SD card theft prevention cover to prevent the SD card from being stolen. For details on how to attach the cover, see "Attaching the SD Card Theft Prevention Cover" (p. 67).

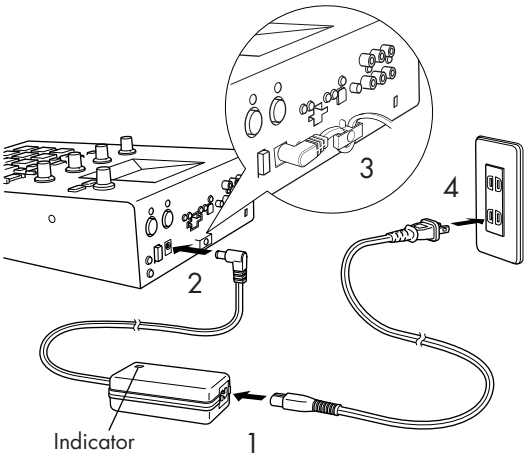
Connecting Peripheral Devices

This section explains how to connect the AC adaptor and various external devices to the P-10.

Connecting the AC Adaptor to the P-10

Here's how to connect the supplied AC adaptor to the P-10.

1. **Connect the power cord to the AC adaptor.**
2. **Insert the AC adaptor cord into the DC IN jack on the rear panel.**
3. **Anchor the AC adaptor cord on the cord hook.**
4. **Connect the plug of the power cord to the AC outlet.**

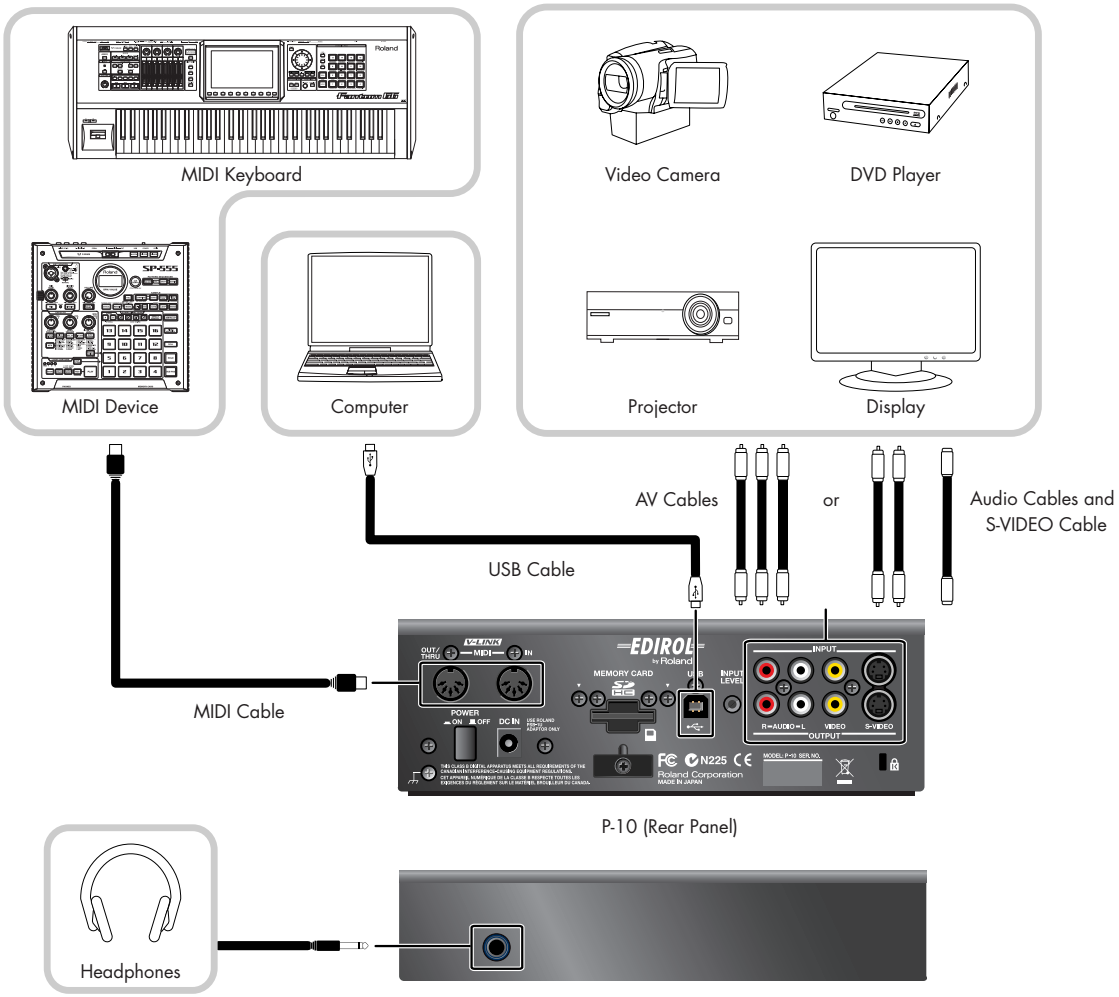


NOTE Place the AC adaptor so the side with the indicator (see illustration) faces upwards and the side with textual information faces downwards.

* The indicator will light when you plug the AC adaptor into an AC outlet.

NOTE To prevent inadvertent disruption of power to your unit (should the plug be pulled out accidentally), and to avoid applying undue stress to the AC adaptor jack, anchor the power cord using the cord hook, as shown in the illustration.

Connecting External Devices



NOTE To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.

NOTE When connection cables with resistors are used, the volume level of equipment connected to the inputs (INPUT jack) may be low. If this happens, use connection cables that do not contain resistors.

1. **Turn off the power to all devices.**

2. **Connect the P-10 to the external device.**

NOTE The necessary cables for connecting the P-10 to various devices are not included with the unit. You will need to supply these cables yourself.

Turning the Power On and Off

Turning the Power On

NOTE Once the connections have been completed (p. 17), turn on the power to your various devices in the order specified. By turning on devices in the wrong order, you risk causing malfunction and/or damage to speakers and other devices.

1. **Turn down the volume on the P-10 and any connected devices.**

2. **Press the POWER switch on the P-10.**

When the power is turned on, the BANK [A] button lights up. Pads that have images assigned to them also light up.

NOTE The P-10's screen may flicker when the power is turned on.

3. **Turn on any connected devices.**

4. **Adjust the volume to an appropriate level on the P-10 and any connected devices.**

NOTE This unit is equipped with a protection circuit. A brief interval (a few seconds) after power up is required before the unit will operate normally.

Turning the Power Off

1. **Turn down the volume on the P-10 and any connected devices.**

2. **Turn off the power to any connected devices.**

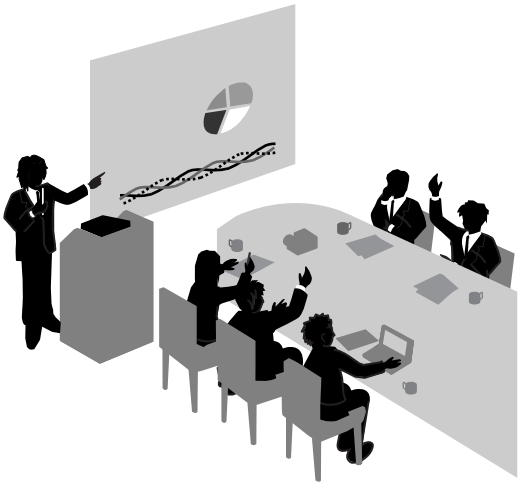
3. **Press the POWER switch on the P-10.**

   All of the buttons and indicators on the top panel turn off.

Main Applications

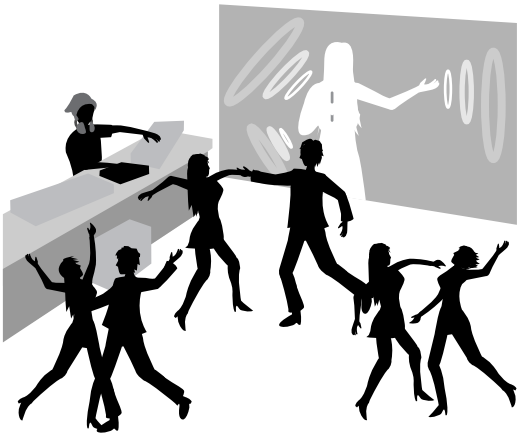
Using the P-10 for Presentations

Use the P-10 at presentations to accurately convey your ideas with movies and still images.



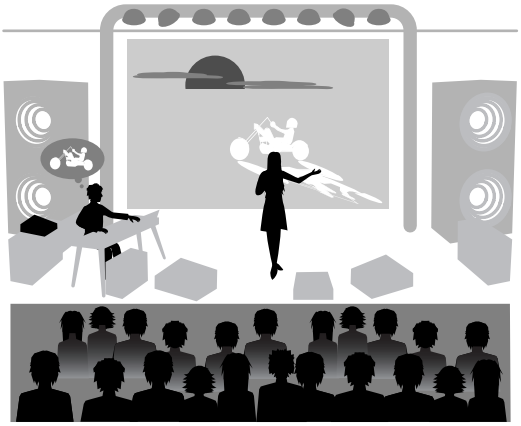
Using the P-10 at Events

Perform at an event with images that have impact by using effects such as color and speed changes.



Using the P-10 at Concerts (V-LINK)

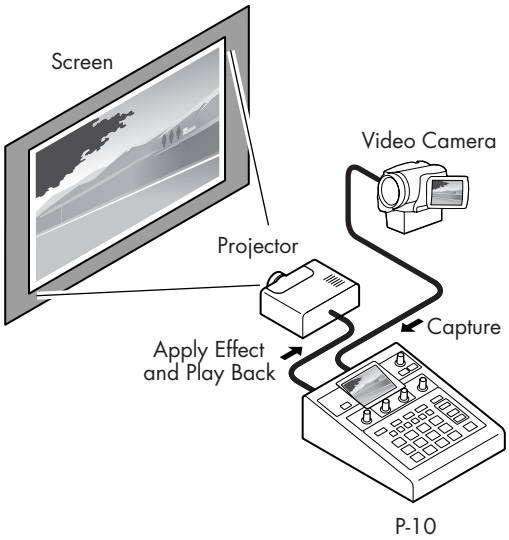
As a musician, use your MIDI device to control the P-10 and synchronize images to the sounds and beats.



Mastering Basic Operation

What Does the P-10 Do?

The P-10 is an easy to operate visual presenter that allows you to freely perform with images as your imagination designs.

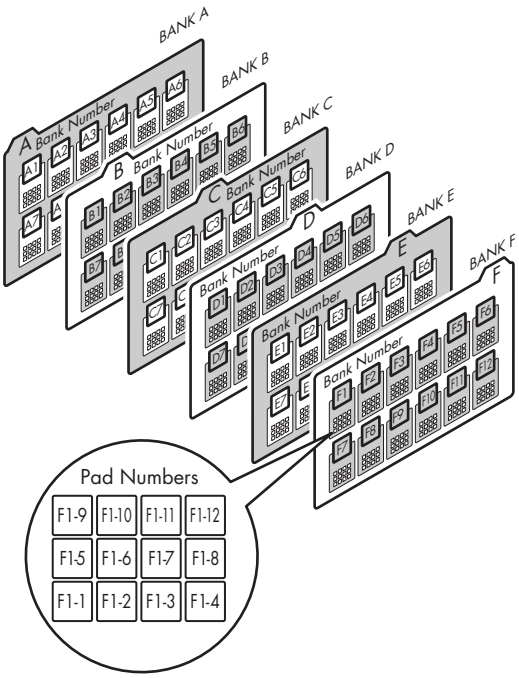


Basic Operation

What is a PAD?

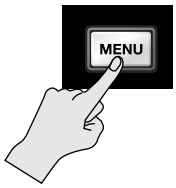
Press a pad to play back an image. Pads that have a movie assigned to them light in red. Pads that have still images assigned to them light in blue.

The P-10 has 6 BANK buttons [A]–[F]. For each bank there are 12 bank numbers. Furthermore, each bank number has 12 pads. This means that when you assign images, you have up to 864 possible assignment locations (6 BANK buttons x 12 BANK numbers x 12 PAD buttons = 864 storage locations).

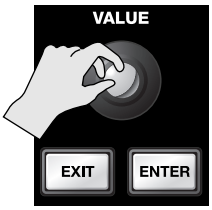


Using the [MENU] Button and [VALUE] Knob

Press the [MENU] button to display the MENU screen.



Rotate the [VALUE] knob to select setting items on the MENU screen.



Rotate the [VALUE] knob to the left or right to select setting items.

Using the [ENTER] Button

Press the [ENTER] button to execute the setting that you have selected by rotating the [VALUE] knob.

Using the [EXIT] Button

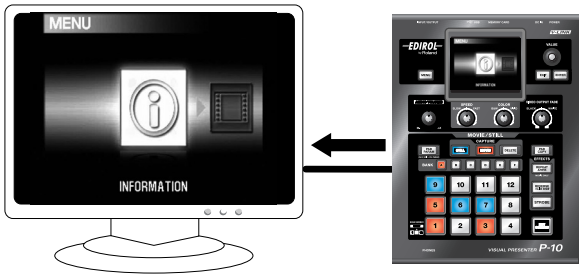
Press the [EXIT] button to return to the previous screen.

MEMO When an image is being played back, pressing the [EXIT] button stops playback.

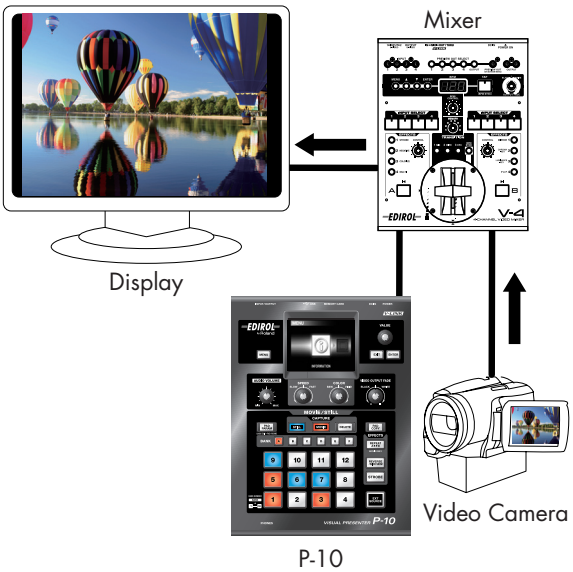
Outputting Images

When you connect the P-10 to a visual device such as a display, not only the images played back on the P-10, but also the P-10's setting screens appear on the visual device. Be careful when performing at events, because visuals other than your selected images may be displayed. If you connect a mixer between the P-10 and the display, you can use the mixer to display the image from another connected device while setting screens are displayed on the P-10.

When you connect the P-10 directly to a display:



When you connect the P-10 to a mixer:



Supported Movie and Still Image File Formats

The P-10 supports the following movie and still image file formats.

Data Type	Supported Format
Movies	Motion JPEG
Still Images	JPEG
Audio	WAV

MEMO For details, see "P-10 Supported Formats" (p. 68).

About NTSC and PAL

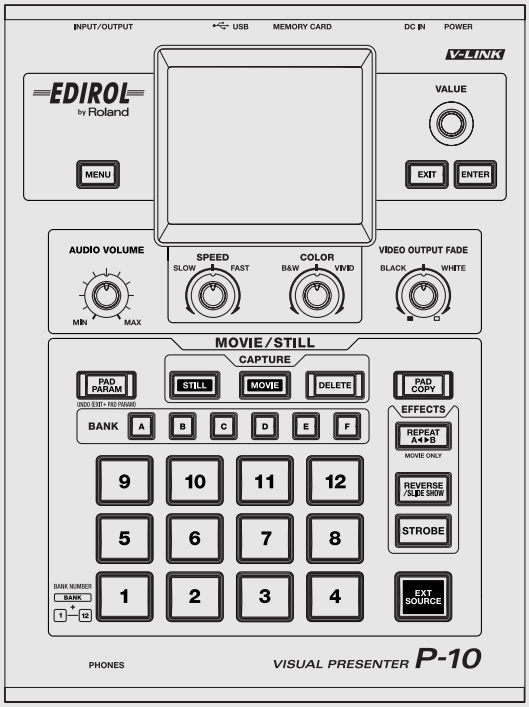
There are two main TV broadcast formats used around the world, NTSC and PAL.
The standard in use differs according to the country or region.

Video Format	Description
NTSC	Mainly North America, Japan, and Korea
PAL	Mainly Europe, Continental Asia, and Australia

NOTE If the P-10 format doesn't match the format of the external display, such as a TV, images will not be displayed. When you connect an external display, first check which format is in use and then match the setting on the P-10.
For details, see "Specifying the Video Format (Video Format)" (p. 57).

MEMO

2. Playing Back Images



Playing Back Images Assigned to Pads

Playing Back Images

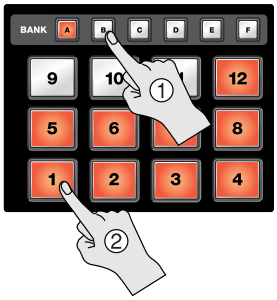
To play back an image, select a pad that has an image assigned to it.

1. Select the BANK number.

Bank "B1" is selected in this example.

① Press and hold the BANK [B] button.

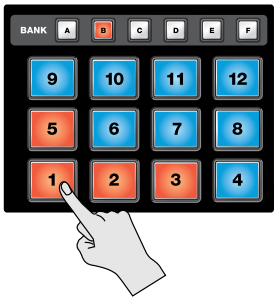
② Press PAD [1].



The BANK number switches to "B1."

2. Press a PAD [1]–[12].

PAD [1] is selected in this example.



The image assigned to "B1-1" plays back.

The pads light up differently according to the type of image assigned to them.

Pad	Assigned Image Type
Lit Red	Movie
Lit Blue	Still Image
Unlit	No Images Assigned

MEMO When you play back an image with audio, rotate the [AUDIO VOLUME] knob to adjust the volume.

MEMO When multiple still images are assigned to a pad, pressing the pad repeatedly changes the images in order.

MEMO Depending on the movie quality or effects that are applied, some movie frames may be skipped.

MEMO If you add an audio file to a movie, when you play back the movie, the audio file plays back at the same time. If you add an audio file to a movie that has its own audio, the added audio plays back when you play the movie.
For details, see "Specifying an Audio Files (Additional Audio File)" (p. 44, p. 46).

Stopping Image Playback

1. Press the [EXIT] button.

Image playback is stopped.

Displaying Input Images

Connect an external device (such as a video camera or DVD player) and you can display its images on the P-10's display or on an external display connected to the P-10.

MEMO Make sure you specify the video input jack beforehand (p. 57).

1. Connect an external device to the P-10.

2. Turn on the P-10 and the external device.

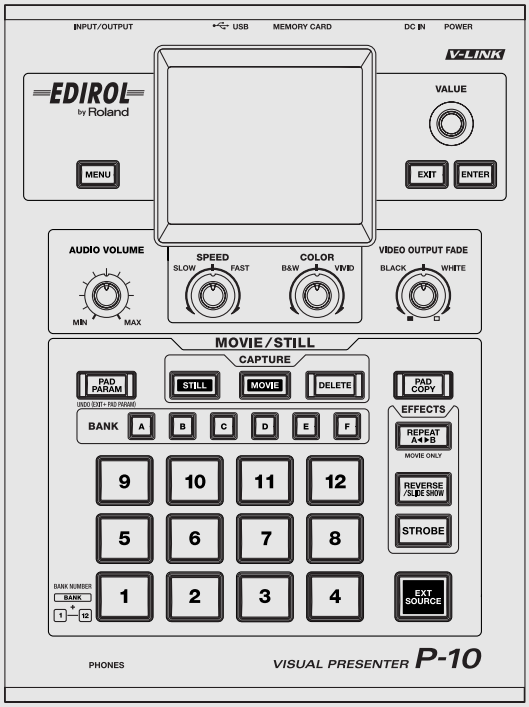
3. Play back an image on the external device.

4. Press the [EXT SOURCE] button.

The image from the external device appears on the P-10 display and the external display (if connected).

MEMO To stop displaying images that are being input, press the [EXT SOURCE] button again.

3. Applying Effects to Images



Effects

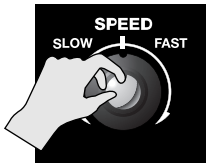
Apply image effects—such as changing colors, reversing playback, and changing the playback speed—to enhance your performance.

Effect	Description	Movies	Stills
[SPEED] Knob	Adjust the playback speed.	○	–
[COLOR] Knob	Adjust the image color.	○	○
[VIDEO OUTPUT FADE] Knob	Fade the image.	○	○
[REPEAT A ◀▶ B] Button	Repeat a specified section of a movie.	○	–
[REVERSE/SLIDE SHOW] Button (when playing back movies)	Play the movie in reverse.	○	–
[REVERSE/SLIDE SHOW] Button (when playing back still images)	Play a slide show of all the images assigned to one pad.	–	○
[STROBE] Button	Play back an image with a strobe effect.	○	○

MEMO Rotate the [SPEED], [COLOR], and [VIDEO OUTPUT FADE] knobs to the left or right to apply various image effects. When the small notch on the knob is centered, the image plays back normally.

Changing the Playback Speed of a Movie (SPEED)

Rotate the [SPEED] knob to speed up or slow down movie playback. You can also use this knob to pause a movie during playback.

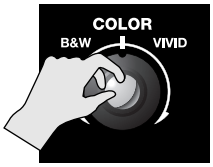


Setting	Description
SLOW	Turn the knob to the left and playback speed decreases. The slowest playback speed is 25% of the normal speed. Turning the knob all the way to the left stops the movie where it is.
FAST	Turn the knob to the right and playback speed increases. Turning the knob all the way to the right increases the playback speed to 400% of the normal speed.

MEMO You can specify the type of speed change that occurs when you rotate the [SPEED] knob.
For details, see "Specifying the Type of Speed Effect (Speed Ctrl Type)" (p. 58).

Changing the Color of an Image (COLOR)

Rotate the [COLOR] knob to adjust the color saturation. You can brighten the colors of an image and change to black and white.

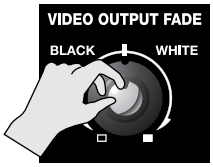


Setting	Description
B&W	Turn the knob to the left to gradually change the display to black and white.
VIVID	Turn the knob to the right to raise the color saturation (color brightness).

MEMO You can specify the type of color change that occurs when you rotate the [COLOR] knob.
For details, see "Specifying the Type of Color Effect (Color Ctrl Type)" (p. 58).

Fading an Image (VIDEO OUTPUT FADE)

Rotate the [VIDEO OUTPUT FADE] knob to fade the image. "Fade" is a playback effect. Gradually fading from an image to a colored screen, such as black or white, is called "fade out." Conversely, gradually fading in to an image from a colored screen is called "fade in."



Setting	Description
BLACK	Turn the knob to the left to fade to black.
WHITE	Turn the knob to the right to fade to white.

MEMO You can specify fade colors other than black and white, such as red and blue.
For details, see "Specifying the Fade Effect Color (Output Fade Color L, Output Fade Color R)" (p. 58).

Repeating Movie Playback (REPEAT)

Specify a section of a movie in real-time and then repeat playback.

1. **Play a movie.**
   For details about playing back movies, see "Playing Back Images" (p. 26).

2. **Press the [REPEAT A ◀▶ B] button at the point where you want the movie to start repeating.**

   The [REPEAT A ◀▶ B] button flashes.

3. **Press the [REPEAT A ◀▶ B] button at the point where you want the movie to stop repeating.**
   The [REPEAT A ◀▶ B] button lights up and the specified section plays back repeatedly.

4. **To cancel the repeat effect, press the [REPEAT A ◀▶ B] button again.**
   The [REPEAT A ◀▶ B] button turns off and the repeat effect is cancelled.

MEMO When you select another pad, repeat playback is cancelled.

Reversing Movie Playback (REVERSE)

You can play back a movie in reverse. When you reverse movie playback, audio playback is also reversed.

If you want to play back audio normally while playing back a movie in reverse, see "Syncing a Movie with Audio (Audio Sync)" (p. 44).

1. **Play a movie.**

   For details, see "Playing Back Images" (p. 26).

2. **Press the [REVERSE/SLIDE SHOW] button.**

   The [REVERSE/SLIDE SHOW] button lights up and the movie plays back in reverse.

3. **To cancel reverse playback, press the [REVERSE/SLIDE SHOW] button again.**

   The [REVERSE/SLIDE SHOW] button turns off and reverse playback is cancelled.

MEMO To reverse playback whenever you press a pad to play back a movie, set "Reverse Sw" to "ON" in pad parameters.
For details, see "Specifying the Reverse Effect (Reverse Sw)" (p. 45).

MEMO When you select another pad, reverse playback is cancelled.

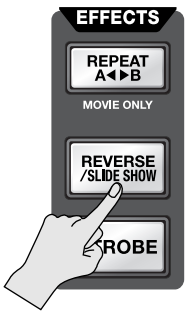
Displaying Still Images in a Slide Show (SLIDE SHOW)

The P-10 slide show doesn't just display your images in a slide show, you can also apply motion graphics just like the ones used in professional music video clips. Slide show patterns that apply these effects are called a "slide show set." The P-10 has 79 motions for you to choose from to create a set that displays your own unique style.

1. **Play a still image.**

   For details, see "Playing Back Images" (p. 26).

2. **Press the [REVERSE/SLIDE SHOW] button.**



   The [REVERSE/SLIDE SHOW] button lights up and slide show playback starts.

3. **To cancel the slide show, press the [REVERSE/SLIDE SHOW] button again.**

   The [REVERSE/SLIDE SHOW] button turns off and the slide show finishes.

NOTE The slide show effect may not start immediately after pressing the [REVERSE/SLIDE SHOW] button.

NOTE While a slide show is playing back, the [SPEED], [COLOR], and [VIDEO OUTPUT FADE] knobs don't work.

MEMO For details about specifying a slide show set, see "Specifying the Slide Show Set (Slide Show Set)" (p. 47).

MEMO When you select another pad, the slide show display is cancelled.

Applying Strobe to Image Playback (STROBE)

Play back images with strobe.
Movies appear with short intervals between frames creating a stop motion feel. Still images are displayed one after another in short flashes.

1. **Play back an image.**

   For details, see "Playing Back Images" (p. 26).

2. **Press the [STROBE] button.**

   The [STROBE] button lights up and images are played back with strobe.

3. **To cancel the strobe effect, press the [STROBE] button again.**

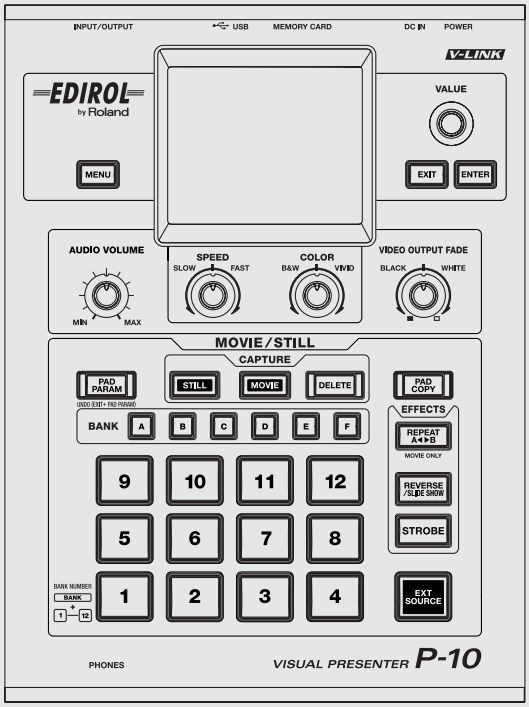
   The [STROBE] button turns off and strobe playback is cancelled.

MEMO When you select another pad, strobe playback is cancelled.

MEMO You can set the strobe interval for each pad.
For details, see below.
Movies: "Specifying the Strobe Interval (Strobe Time)" (p. 45)
Still Images: "Specifying the Strobe Interval (Strobe Time)" (p. 47)

MEMO

4. Capturing Images



Capturing Images from an External Device

What is Capturing?

You can capture images from an external device, such as a DVD player or video camera, as stills or movies using the P-10.

Possible Movie Length and Number of Still Images

If you are using an SD card with 1GB of available space, you can save captured files in the following amounts:

Movies	about 15 min.
Still Images	about 2000 files

NOTE Depending on the images, the length of a movie that you can save may be shorter, and the number of still images that you can save may be fewer.

Capturing Movies

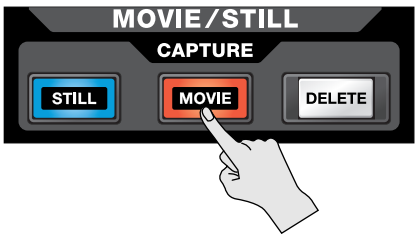
Connect the P-10 to an external device beforehand.

1. **Play back an image on the external device.**

2. **Press the [EXT SOURCE] button.**

The image from the external device appears on the P-10's display.

3. **Press the CAPTURE [MOVIE] button at the point that you want to start capturing the movie.**



The CAPTURE [MOVIE] button flashes.

4. **Press the CAPTURE [MOVIE] button again at the point that you want to stop capturing the movie.**

Empty pads flash red.

MEMO When there is no flashing pad, press a bank button to select another bank.

5. **Press a pad that is flashing.**

The captured movie is assigned to the selected pad.

If you have selected a pad that is lit red (movie) or blue (still image), the following screen appears.

If you want to overwrite the image assigned to the pad, rotate the [VALUE] knob to select "Execute," and then press the [ENTER] button.
If you don't want to overwrite the image assigned to the pad, rotate the [VALUE] knob to select "Cancel," and then press the [ENTER] button.

NOTE Depending on the original method for playing back images, a few frames of a movie may stack up on each other when you capture a movie. Check the connected image device.

MEMO The shortest length you can capture is two seconds. If you want to make a movie even shorter, specify it by the "Start Frame" or "End Frame" in pad parameters (p. 44).

Capturing Still Images

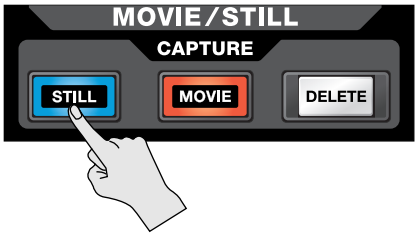
Connect the P-10 to an external device beforehand.

1. **Play back an image on the external device.**

2. **Press the [EXT SOURCE] button.**

The image from the external device appears on the P-10's display.

3. **Press the CAPTURE [STILL] button when the image you want to capture appears.**



Empty pads flash blue.

MEMO When there is no flashing pad, press a bank button to select another bank.

4. **Press a pad that is flashing.**

The captured still image is assigned to the selected pad.

If you have selected a pad that is lit red (movie) or blue (still image), the following screen appears.

If you want to overwrite the image assigned to the pad, rotate the [VALUE] knob to select "Execute," and then press the [ENTER] button.
If you don't want to overwrite the image assigned to the pad, rotate the [VALUE] knob to select "Cancel," and then press the [ENTER] button.

MEMO You can capture a continuous series of still images. For details, see "Specifying the Capture Still Mode (Capture Still Mode)" (p. 58).

Deleting Captured Images

1. **Select the pad which has images you want to delete assigned to it.**

   For details about selecting a pad, see "Playing Back Images" (p. 26).

2. **Press the [DELETE] button.**

   A confirmation screen appears.

3. **Rotate the [VALUE] knob to select "Execute."**

4. **Press the [ENTER] button.**

   A screen appears to confirm whether you want to delete the file from the SD card.

5. **Rotate the [VALUE] knob to select "Execute" or "Cancel."**

   When you want to delete the image from the SD card, select "Execute," and when you don't want to not delete the image, select "Cancel."

6. **Press the [ENTER] button.**

NOTE If the image is assigned to other pads, when you delete the file, the image is also deleted from the other pads.

Transferring Files from a Computer to the P-10

Using Windows XP or Windows Vista

Connect the P-10 to a computer and you can use the computer to prepare images.

When preparing images with a computer, make sure you install the P-10 Image Converter application from the CD-ROM supplied with the P-10 beforehand.

What is the P-10 Image Converter?

P-10 Image Converter is an application that allows you to change movies and still images that you have in your computer to P-10 supported formats and save the files to the SD card.

NOTE The P-10 Image Converter application is only supported by Windows XP and Windows Vista. Be aware that Mac OS X does not support the application.

MEMO For details about how to install P-10 Image Converter, see the Readme.txt file on the CD-ROM.

MEMO You can also insert the P-10 formatted SD card into your computer's card reader, or connect a card reader to your computer to prepare images.

Starting Up P-10 Image Converter

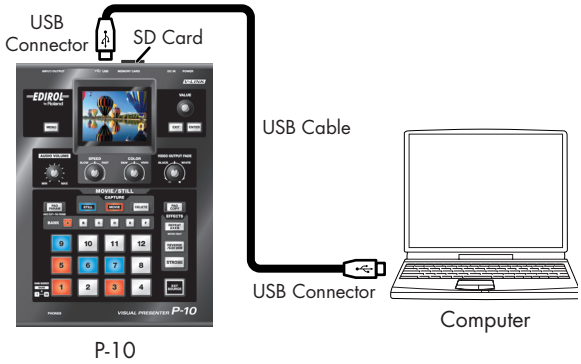
Format the SD card on the P-10 (p. 63) and prepare images on the computer before performing the following procedure.

1. **Insert the SD card into the P-10.**

2. **Turn on the P-10.**

3. **Press the [EXIT] button to make sure that nothing is being displayed on its screen.**

4. **Use a USB cable to connect the P-10 to the computer.**



5. **Select "P-10 Image Converter" from the "Start" menu.**

   P-10 Image Converter starts up.

6. **Transfer images to the P-10 using P-10 Image Converter.**

MEMO For details about using P-10 Image Converter, see "P-10 Image Converter Manual" in the P-10 Image Converter Help menu.

NOTE For details about operation specifications, see the Roland website.
http://www.rolandsystemsgroup.net/

7. **Click on the icon in the bottom-right corner of the screen, select [Safely Remove Hardware], and the USB connection is stopped.**

8. **Disconnect the USB cable.**

Using Mac OS X

1. **Prepare images on the computer.**

   You can create movie files that you can play back on the P-10 using Apple Quicktime Pro.

   After creating a movie to play back on the P-10, use the following conditions to export the file.

Setting	Condition
File Format	Motion JPEG A
Quality	About 50%
File Name	P10_0001.MOV–P10_9999.MOV

MEMO Movie files that have been created with Quicktime Pro do not play back with audio. Prepare a separate WAV file with the audio, and specify it using "Additional Audio File" in pad parameters (p. 44).

2. **Insert the SD card into the P-10**

3. **Turn on the P-10.**

4. **Press the P-10's [EXIT] button to make sure that nothing is being displayed on its screen.**

5. **Connect the P-10 to the computer using a USB cable.**

6. **Double-click the icon on the desktop.**

7. **Double-click the [DCIM] folder, and then double-click the [000EDROL] folder.**

8. **Copy the images you want to the [000EDROL] folder.**

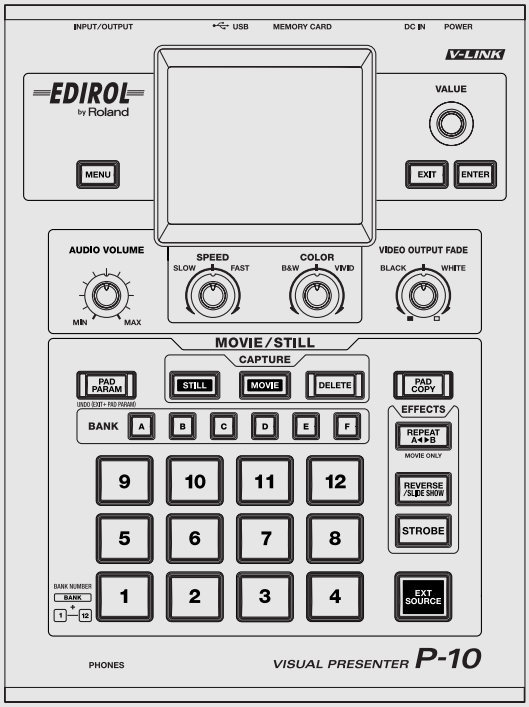
NOTE Be careful not to copy files with the same name.

9. **Drag and drop the icon in the trash.**

Drag and Drop

10. **Disconnect the USB cable.**

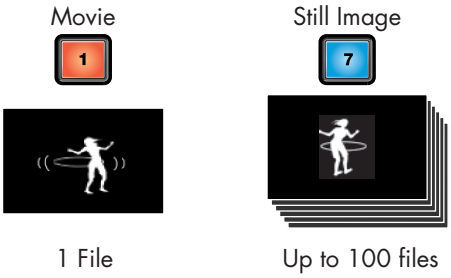
5. Pad Settings



Assigning Images to Pads

By assigning an image to a pad, you can play back an image by simply pressing the pad to which it is assigned. When you assign images to each pad, you can change to images you want to play back in an instant.

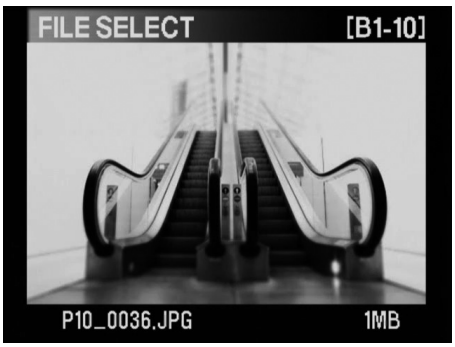
The limits on files that you can assign to one pad are listed below.



1. Press the [PAD PARAM] button.

2. Press a pad that is unlit.

The selected pad flashes purple and the FILE SELECT screen appears.



3. Rotate the [VALUE] knob to select an image.

4. Press the [ENTER] button.

The image is assigned to the pad.

For details about how to add still images to a pad, see "Adding Still Images to a Pad (Add Still Image)" (p. 45).

Pad Parameters

What are the Pad Parameters?

"Pad Parameters" are the settings that specify how an image is played back and let you change the image or images assigned to a pad.

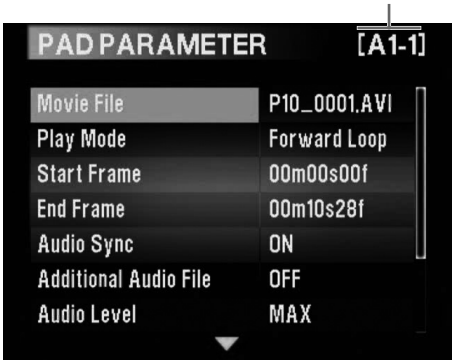
PAD PARAMETER Screen Operation

1. **Select the pad which has parameters that you want to change.**

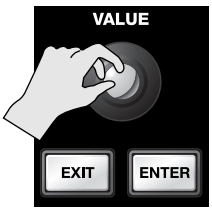
2. **Press the [PAD PARAM] button.**

The PAD PARAMETER screen appears.
The selected pad's number appears in the upper-right corner of the screen.

Pad Number

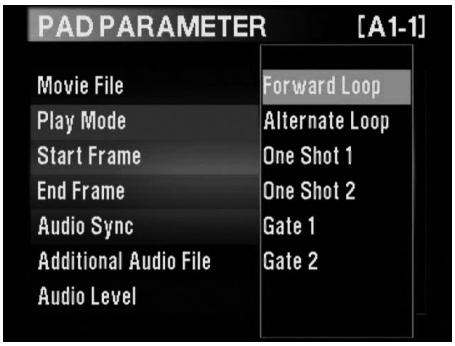


3. **Rotate the [VALUE] knob to select a setting item.**



4. **Press the [ENTER] button.**

5. **Rotate the [VALUE] knob to change the value.**



6. **Press the [ENTER] button.**
   The selected parameter is changed.

MEMO While the PAD PARAMETER screen is displayed, you can select another pad and change its pad parameter settings.

MEMO To return to the previous screen, press the [EXIT] button.

Exiting the PAD PARAMETER Screen

Press the [PAD PARAM] button to close the PAD PARAMETER screen.

Returning to the Previous Setting Value (UNDO)

You can return the P-10 to its state prior to changing the settings after performing the following operations.

Changing the PAD PARAMETER	p. 43
Deleting pad data only	p. 36
Copying pad data	p. 48
Capturing images	p. 34

1. **Press the [EXIT] button while pressing the [PAD PARAM] button.**

2. **Rotate the [VALUE] knob to select "Execute."**

3. **Press the [ENTER] button.**

   The setting returns to its previous value.

   You cannot return the P-10 to its state prior to changing the settings after performing the following operations:
   - Turning the power off (p. 19)
   - Connecting to a computer by USB (p. 37)
   - Removing the SD card (p. 17)
   - Truncating a movie (p. 49)
   - Selecting Delete File (p. 63), Factory Reset (p. 64), or Format SD Card (p. 63) from the MENU screen

Movie Pad Parameters

You can specify the following parameters for movies.

Parameter Name	Description	Page
Movie File	Change the movie assigned to a pad.	p. 43
Play Mode	Specify the play mode.	p. 43
Start Frame	Specify the first frame for playback.	p. 44
End Frame	Specify the last frame for playback.	p. 44
Audio Sync	Specify whether to sync movie and audio playback.	p. 44
Additional Audio File	Specify an audio file.	p. 44
Audio Level	Adjust the audio level.	p. 45
Reverse Sw	Specify whether to apply the reverse effect (reverse playback).	p. 45
Strobe Sw	Specify whether to apply the strobe effect.	p. 45
Strobe Time	Specify the strobe interval.	p. 45

Still Image Pad Parameters

You can specify the following parameters for still images.

Parameter Name	Description	Page
Still Image File	Add and exchange still images assigned to a pad.	p. 45
Additional Audio File	Specify an audio file.	p. 46
Audio Level	Adjust the audio level.	p. 46
Effect Sw	Specify still image effects.	p. 46
Slide Show Set	Specify the slide show type.	p. 47
Slide Show User Set	Specify an original slide show set.	p. 47
Strobe Time	Specify the strobe interval.	p. 47

Changing the Pad Parameters

Movies

Changing a Movie Assigned to a Pad

1. **Select the PAD which has the movie you want to change assigned to it.**

MEMO Pads that have movies assigned to them light up red.

2. **Press the [PAD PARAM] button.**

3. **Rotate the [VALUE] knob to select "Movie File," and then press the [ENTER] button.**

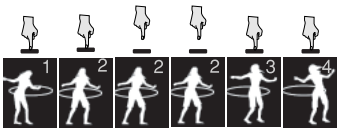
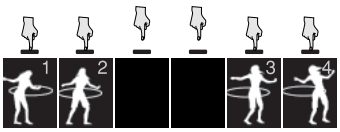
The FILE SELECT screen appears.

4. **Rotate the [VALUE] knob to select the movie that you want to assign, and then press the [ENTER] button.**

MEMO You cannot assign a movie to a pad that already has still images assigned to it. If you want to do this, first delete the pad data, and then assign the movie. For details, see "Deleting Captured Images" (p. 36).

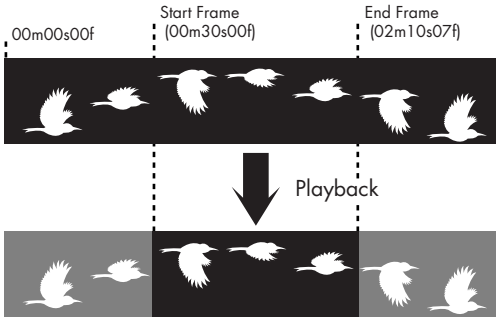
Changing the Play Mode (Play Mode)

Specify the play mode according to how you want to play back a movie. Play back a movie using the following play modes.

Play Mode	Description
Forward Loop	Repeats playback.
Alternate Loop	Repeats playback alternating between forward and reverse play back.
One Shot1	Plays the movie file once and then stops, leaving the last frame displayed.
One Shot2	Plays the movie file once and then stops, leaving the screen blank.
Gate1	 Plays the movie as long as you hold the pad. When you release the pad, playback pauses and the last frame is displayed. Press the pad again to resume playback.
Gate2	 Plays the movie as long as you hold the pad. When you release the pad, playback pauses and the screen is left blank. Press the pad again to resume playback.

Specifying the Playback Range (Start Frame/End Frame)

Specify the range of the movie that you want to play back.



1. **Rotate the [VALUE] knob to select "Start Frame" on the PAD PARAMETER screen, and then press the [ENTER] button.**

   The Start Frame screen appears.

2. **Rotate the [VALUE] knob to select the first frame that you want to play back.**

3. **Press the [ENTER] button.**

   You are returned to the PAD PARAMETER screen.

4. **Rotate the [VALUE] knob to select "End Frame."**

   The End Frame screen appears.

5. **Rotate the [VALUE] knob to select the last frame that you want to play back.**

6. **Press the [ENTER] button.**

   You are returned to the PAD PARAMETER screen.

MEMO You can cut and delete the parts of the movie outside of the specified playback range (Truncate) to make the file size smaller.
For details, see "Truncating a Movie (Truncate)" (p. 49).

Syncing a Movie with Audio (Audio Sync)

When you apply speed, repeat, and reverse effects to a movie, you can specify whether to apply the same changes to the audio.

Setting	Description
ON	Change audio at the same time to match the movie.
OFF	Play back audio normally and apply effects to the movie only.

NOTE When you turn the [SPEED] knob all the way to the left, the movie and audio playback both pause.

Specifying an Audio File (Additional Audio File)

You can specify a separate audio file to play back with a movie. When you play back the movie, the specified audio file plays back.

MEMO To specify an audio file, make sure you add audio files to the SD card beforehand.

1. **Rotate the [VALUE] knob to select "Additional Audio File" on the PAD PARAMETER screen, and then press the [ENTER] button.**

2. **Rotate the [VALUE] knob to select an audio file.**

3. **Press the [ENTER] button.**

MEMO If there are no audio files saved to the SD card, no audio files are displayed.

MEMO If you have specified an audio file for a movie that already has audio, the movie audio doesn't play back.

Specifying the Volume (Audio Level)

Specify the volume.

Setting	Description
MAX	This is the maximum volume.
1–9	Specify the volume level with a number. The higher the number you set, the higher the volume becomes.
OFF	The volume is set to "0."

Specifying the Reverse Effect (Reverse Sw)

When you press a pad to play a movie, it plays back in reverse.

Setting	Description
ON	Turns reverse on.
OFF	Turns reverse off.

Specifying the Strobe Effect (Strobe Sw)

When you press a pad to play a movie, it plays back with strobe.

"Strobe" is an effect that plays back a movie with short intervals between frames, creating a stop motion feel.

Setting	Description
ON	Turns strobe on.
OFF	Turns strobe off.

Specifying the Strobe Interval (Strobe Time)

You can specify the time interval for the strobe effect.

For example, if you specify "0.5sec," the movie plays in 0.5 second strobe bursts.

Setting	Description
0.5sec–2.0sec	Specify the interval in 0.1 second units.

Still Images

Adding Still Images to a Pad (Add Still Image)

You can add still images to a pad that has a still image assigned to it.

1. **Select the pad to which you want to add still images.**

   MEMO Pads that have still images assigned to them light up blue.

2. **Press the [PAD PARAM] button.**

3. **Rotate the [VALUE] knob to select "Still Image File," and then press the [ENTER] button.**

   The STILL IMAGE LIST screen appears.

4. **Rotate the [VALUE] knob to select "Add Still Image," and then press the [ENTER] button.**

   The FILE SELECT screen appears.

5. **Rotate the [VALUE] knob to select the still image that you want to add.**

6. **Press the [ENTER] button.**

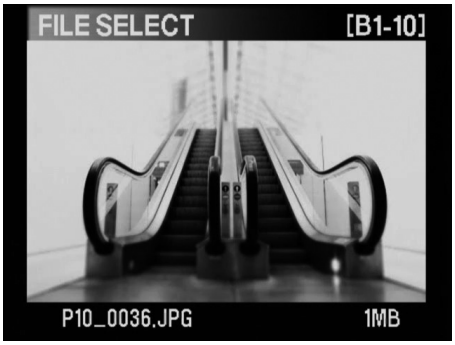
   The still image is added to the pad.

Exchanging Still Images Assigned to a Pad

You can exchange still images that are assigned to a pad.

MEMO You cannot add still images to a pad that already has a movie assigned to it. If you want to do this, first delete the pad data, and then assign a still image.
For details, see "Deleting Captured Images" (p. 36).

1. **Select the pad to which the still image that you want to exchange is assigned.**
   Pads that have still images assigned to them light up blue.
2. **Press the [PAD PARAM] button.**
3. **Rotate the [VALUE] knob to select "Still Image File," and then press the [ENTER] button.**
4. **Rotate the [VALUE] knob to select the image that you want to exchange, and then press the [ENTER] button.**
   The FILE SELECT screen appears.



5. **Rotate the [VALUE] knob to select the image that you want to exchange with the previous image, and then press the [ENTER] button.**
   A confirmation screen appears.
6. **Rotate the [VALUE] knob to select "Exchange," and then press the [ENTER] button.**
   The new image is assigned to the pad, replacing the old image.

Specifying an Audio File (Additional Audio File)

You can add an audio file to a pad which has still images assigned to it. When you play back the still images, the audio file also plays back.

MEMO To specify an audio file, make sure you add audio files to the SD card beforehand.

1. **Rotate the [VALUE] knob to select "Additional Audio File" on the PAD PARAMETER screen, and then press the [ENTER] button.**
2. **Rotate the [VALUE] knob to select an audio file.**
3. **Press the [ENTER] button.**

MEMO If there are no audio files saved to the SD card, you cannot select an audio file.

Specifying the Volume (Audio Level)

Specify the volume.

Setting	Description
MAX	This is the maximum volume.
1–9	Specify the volume level with a number. The higher the number you set, the higher the volume becomes.
OFF	The volume is set to "0."

Specifying Effects (Effect Sw)

When you press a pad to play back still images, they play back with strobe or as a slide show. When you play back still images with the slide show effect, each image is displayed in order. If you apply the strobe effect, the images appear at an interval you specify.

Setting	Description
OFF	Turns off all effects.
Slide Show	Applies the slide show effect.
Strobe	Applies the strobe effect.

Specifying the Slide Show Set (Slide Show Set)

The P-10 comes with 10 slide show sets (preset).
You can also select "User Set" and play back your own customized slide show set.
For details, see "Slide Show Set" (p. 69).

Setting	Description
Preset 1–10	Select the slide show set to apply.
User Set	Apply your customized slide show set.

Creating a Slide Show Set (Slide Show User Set)

Motions are movements such as enlarging, shrinking, and sliding still images. The P-10 comes with 79 types of motions for you to choose from. You can create an original slide show set by selecting and arranging the motions.

For details, see "Motions" (p. 70).

Setting	Description
Motion 1–5	Specify the motion.
Preview	Preview the slide show set that you have created. To exit the preview, press the [EXIT] button.

Specifying the Strobe Interval (Strobe Time)

You can specify the time interval for the strobe effect.
For example, if you specify "0.5sec," each still image plays back in 0.5 second strobe bursts.

Setting	Description
0.5sec–2.0sec	Specify the interval in 0.1 second units.

Copying Pad Parameters

Copy parameters from one pad and assign them to another pad.

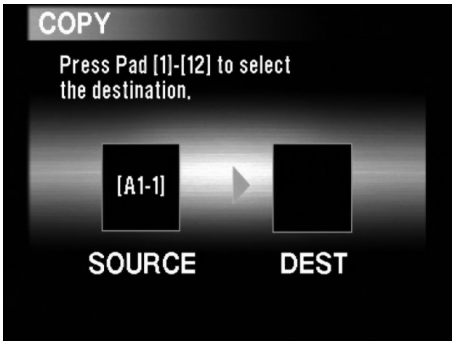
MEMO When you copy the pad parameters, the images assigned to the pad are also copied.

1. **Select the PAD button that you want to copy.**

   For details about selecting pads, see "Playing Back Images" (p. 26).

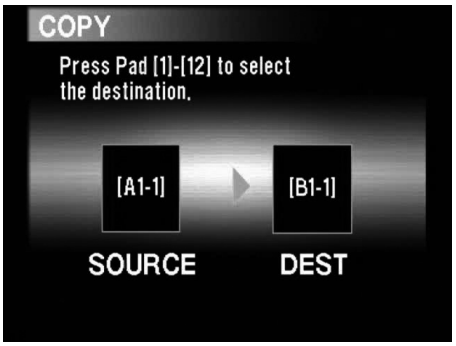
2. **Press the [PAD COPY] button.**

The bank number and pad number of the pad selected in step one appear in "SOURCE."



3. **Press a pad that is flashing to select the copy destination.**

   The selected bank number and pad number appear in "DEST."



4. **Press the [ENTER] button.**

   The pad parameters are copied to the selected pad.

   If you have selected a pad that is lit red (movie) or blue (still image), the following screen appears.

If you want to overwrite the image assigned to the pad, rotate the [VALUE] knob to select "Execute," and then press the [ENTER] button.
If you don't want to overwrite the image assigned to the pad, rotate the [VALUE] knob to select "Cancel," and then press the [ENTER] button.

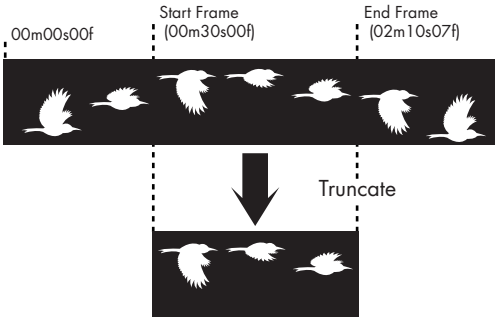
Copying the Parameters of an Entire Bank

You can copy the parameters of an entire bank, such as copying BANK A1-1–A12-12 to BANK C1-1–C12-12.

1. **Press the [EXIT] button to stop image playback.**
2. **Press the [PAD COPY] button.**
3. **Select the BANK button that you want to copy.**
4. **Press the [ENTER] button.**
5. **Select the BANK button that you want to assign copied data to.**
6. **Press the [ENTER] button.**

Truncating a Movie (Truncate)

After capturing a movie, you can cut and delete excess parts. This works well for capturing movies with some extra footage at the beginning and end, which you can then delete later if you don't need it.



NOTE When you truncate a movie, the original file is overwritten so you cannot return to the original movie length once the action is complete.

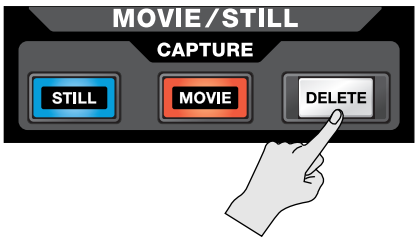
1. **Specify the "Start Frame" and "End Frame" from the PAD PARAMETER screen beforehand.**

   For details, see "Specifying the Playback Range (Start Frame/End Frame)" (p. 44).

2. **Press the [PAD PARAM] button.**

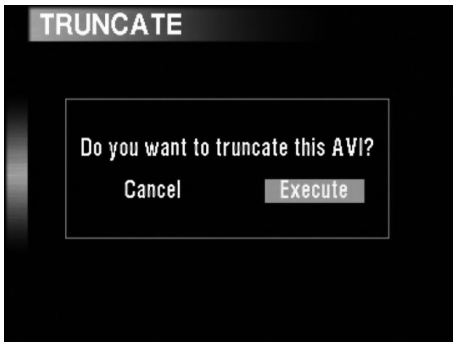
   The [PAD PARAM] button lights up.

3. **Press the [DELETE] button.**



A confirmation screen appears.

4. **Rotate the [VALUE] knob to select "Execute."**



MEMO If you want to cancel the operation, rotate the [VALUE] knob to select "Cancel," and then press the [ENTER] button.

5. **Press the [ENTER] button.**

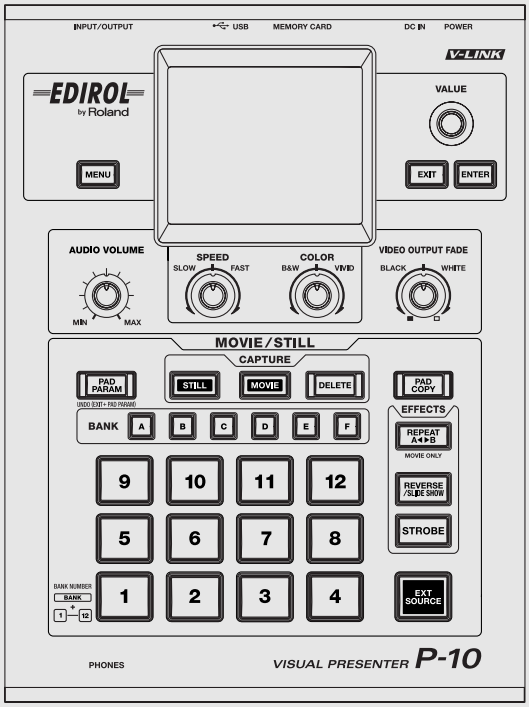
   The P-10 begins truncating the movie.

NOTE Truncating a file may take some time to complete. Do not turn the power off until "Completed!" appears on the screen.

NOTE Because there must be working space on the SD card when you truncate a file, you may not be able to truncate a file depending on the amount of memory remaining.

MEMO

6. System Settings



Specifying System Settings

Items You Can Specify

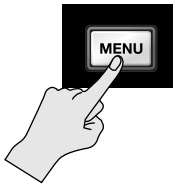
Functions relating to the P-10's operations are referred to as the "system." The system settings that you can specify are listed in the table below.

MENU	Setting Item	Description	Page
INFORMATION	**System Backup**	Back up system settings to the SD card.	p. 55
	System Restore	Restore the system with settings that you have previously backed up.	p. 55
	Project Backup	Back up all of the bank data to the SD card.	p. 56
	Project Restore	Restore all of the banks with data that you have previously backed up.	p. 56
VIDEO	**LCD Contrast**	Adjust the display contrast.	p. 57
	Video Format	Select the video format (NTSC/PAL).	p. 57
	Input Video	Select the INPUT jack type.	p. 57
	Capture Still Mode	Specify the capture mode for still images (one shot/continuous).	p. 58
	Color Ctrl Type	Specify the color type applied to the [Color] knob.	p. 58
	Speed Ctrl Type	Specify the speed type applied to the [Speed] knob.	p. 58
	Output Fade Color L	Specify the color that appears when the [VIDEO OUTPUT FADE] knob is turned to the left.	p. 58
	Output Fade Color R	Specify the color that appears when the [VIDEO OUTPUT FADE] knob is turned to the right.	p. 58
	Start LOGO	Specify whether to display the Edirol logo when the P-10 starts up.	p. 59
AUDIO	**Recording Gain**	Specify the audio sensitivity applied to audio input from an external source.	p. 59

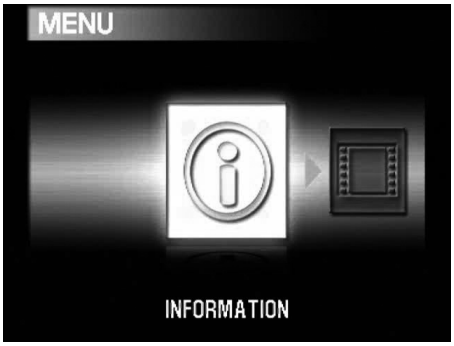
MENU	Setting Item	Description	Page
MIDI	**Device ID**	Set the device ID when you have connected multiple P-10's to a MIDI device so that you can tell them apart.	p. 60
	Rx Channel	Specify the channel for receiving MIDI messages.	p. 60
	Tx Channel	Specify the channel for transmitting MIDI messages.	p. 60
	Soft Through	Specify this setting when you are using the MIDI OUT connector as a MIDI THRU connector.	p. 60
	Note Message Enable	Specify which keys to use for controlling the P-10 using a MIDI keyboard.	p. 60
	Keyboard Range Lower	Specify the lowest note of the range when controlling the P-10 using a MIDI keyboard.	p. 60
	Keyboard Range Upper	Specify the highest note of the range when controlling the P-10 using a MIDI keyboard.	p. 60
	Speed Knob	Specify how the [SPEED] knob is controlled from a MIDI device.	p. 61
	Color Knob	Specify how the [COLOR] knob is controlled from a MIDI device.	p. 61
	Output Fade Knob	Specify how the [VIDEO OUTPUT FADE] knob is controlled from a MIDI device.	p. 61
	Repeat A<>B Sw	Specify how the [REPEAT A ◀▶ B] button is controlled from a MIDI device.	p. 61
	Reverse Sw	Specify how the [REVERSE/SLIDE SHOW] button is controlled from a MIDI device.	p. 61
	Strobe Sw	Specify how the [STROBE] button is controlled from a MIDI device.	p. 61
	Capture Still Image	Specify how the CAPTURE [STILL] button is controlled from a MIDI device.	p. 62
	Capture Movie	Specify how the CAPTURE [MOVIE] button is controlled from a MIDI device.	p. 62
	Video Mixer Control	Specify the channel used when controlling a video mixer from the P-10.	p. 62
PROTECT	**Pad Edit**	Specify this setting to restrict the [PAD PARAM], [PAD COPY], and [DELETE] buttons.	p. 62
	Capture	Specify this setting to restrict the CAPTURE [MOVIE] and CAPTURE [STILL] buttons.	p. 62
DELETE FILE		Delete files saved on the SD card.	p. 63
FORMAT SD CARD		Format the SD card.	p. 63
FACTORY RESET		Reset the P-10 to its factory default settings.	p. 64

MENU Screen Operation

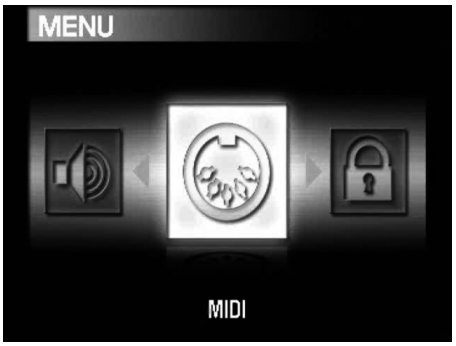
1. **Press the [MENU] button.**



The MENU screen appears.



2. **Rotate the [VALUE] knob to select a menu.**

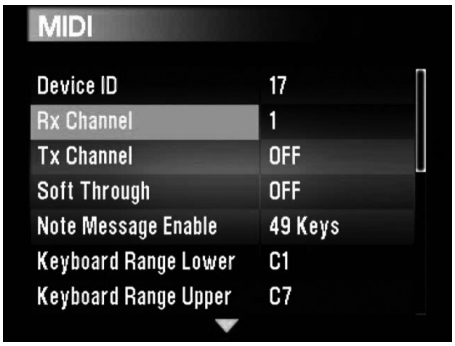


3. **Press the [ENTER] button.**

   The settings screen appears.

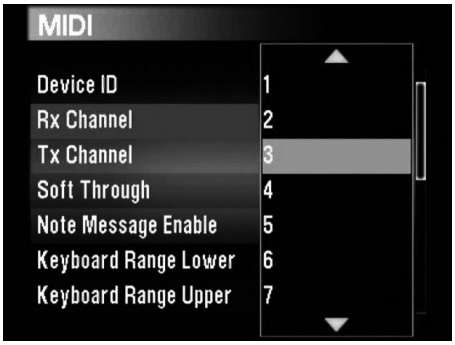
MEMO Press the [EXIT] button to return to the previous screen.

4. **Rotate the [VALUE] knob to select a setting item.**



5. **Press the [ENTER] button.**

6. **Rotate the [VALUE] knob to change the setting value.**



7. **Press the [ENTER] button.**

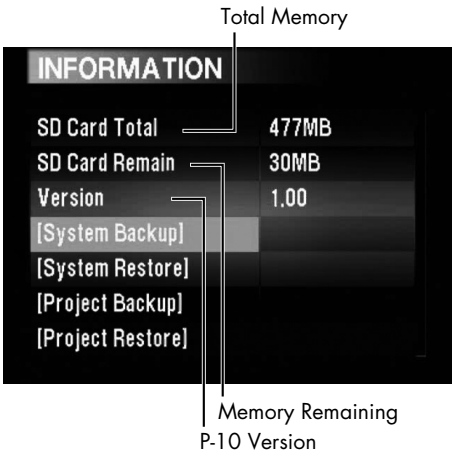
   The selected value is specified.

8. **When you have finished specifying settings, press the [MENU] button.**

   The screen closes.

INFORMATION

This section explains the settings that you can specify from the INFORMATION menu.



Backing Up System Settings on the SD Card (System Backup)

Back up system settings on the SD card.
You can recreate those settings on another P-10 just as they are by inserting the SD card.
The settings that you can back up are listed below.

Menu	Page
VIDEO	p. 57
AUDIO	p. 59
MIDI	p. 59
PROTECT	p. 62

1. **Rotate the [VALUE] knob to select "INFORMATION" from the MENU screen, and then press the [ENTER] button.**
   The INFORMATION screen appears.
2. **Rotate the [VALUE] knob to select "System Backup."**
3. **Press the [ENTER] button.**
   A confirmation screen appears.
4. **Rotate the [VALUE] knob to select "Execute."**

5. **Press the [ENTER] button.**
   The system is backed up.
   When the backup is complete, "Completed!" appears.

Restoring System Settings (System Restore)

Restore P-10 settings using the backup file saved on the SD card.

1. **Rotate the [VALUE] knob to select "INFORMATION" from the MENU screen, and then press the [ENTER] button.**
   The INFORMATION screen appears.
2. **Rotate the [VALUE] knob to select "System Restore."**
3. **Press the [ENTER] button.**
   A confirmation screen appears.
4. **Rotate the [VALUE] knob to select "Execute."**

5. **Press the [ENTER] button.**
   The system is restored. When system restoration is complete, "Completed!" appears. After the system has been restored, turn the power off, and then on again.

NOTE If there is no backup file saved on the SD card, then you cannot restore system settings.

Backing Up All Bank Data (Project Backup)

You can save all of the bank parameters and image files on the SD card in up to 99 files. You can also restore the P-10 using bank parameter data that you have saved on the SD card.

For details, see "Restoring All Bank Data (Project Restore)" (p. 56).

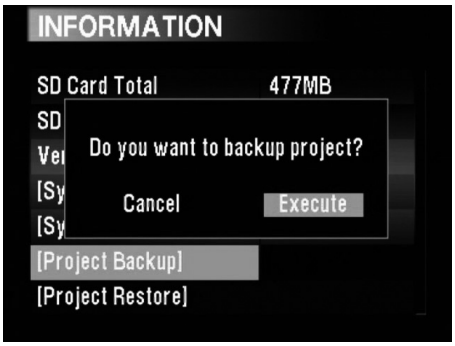
MEMO Backup data is saved on the SD card in a folder (folder names 001EDROL–099EDROL).

1. **Rotate the [VALUE] knob to select "INFORMATION" from the MENU screen, and then press the [ENTER] button.**
   The INFORMATION screen appears.

2. **Rotate the [VALUE] knob to select "Project Backup."**

3. **Press the [ENTER] button.**
   A confirmation screen appears.

4. **Rotate the [VALUE] knob to select "Execute."**



5. **Press the [ENTER] button.**
   The bank data is backed up.
   When backup is complete, "Completed!" appears.

NOTE If there is not enough free space on the SD card, you cannot save the data.

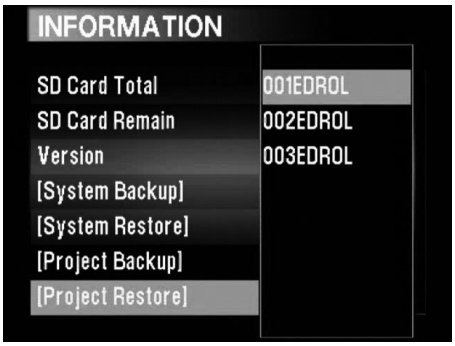
Restoring All Bank Data (Project Restore)

Restore all of the bank data using backup data saved on the SD card.

1. **Rotate the [VALUE] knob to select "INFORMATION" from the MENU screen, and then press the [ENTER] button.**
   The INFORMATION screen appears.

2. **Rotate the [VALUE] knob to select "Project Restore."**

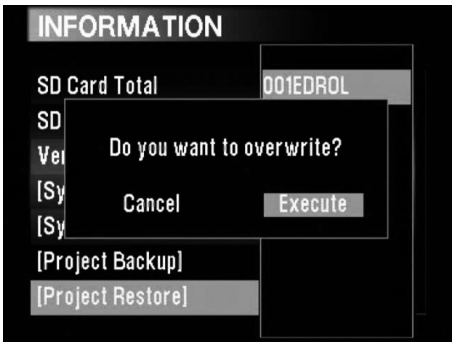
3. **Press the [ENTER] button.**
   A list of folders that contain backup data appears.



4. **Rotate the [VALUE] knob to select the folder that has the bank data that you want to restore, and then press the [ENTER] button.**
   A confirmation screen appears.

MEMO When there is no backup data, the list of folders is not displayed and you cannot restore bank data.

5. **Rotate the [VALUE] knob to select "Execute."**

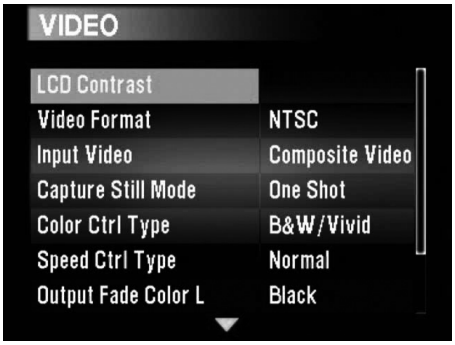


MEMO When you restore bank data on the P-10, the current settings are overwritten. We recommend backing up your current settings to the SD card first, and then restoring the P-10.

6. **Press the [ENTER] button.**
   The bank data is restored.
   When restoration is complete, "Completed!" appears.

VIDEO

Make settings related to images on the VIDEO screen.



Adjusting the Display Contrast (LCD Contrast)

You can adjust the brightness of the P-10's display.

1. **Rotate the [VALUE] knob to select "LCD Contrast" on the MENU screen, and then press the [ENTER] button.**

2. **Rotate the [VALUE] knob to adjust the contrast.**

Setting	Description
Rotate the [VALUE] knob to the left.	The display becomes darker.
Rotate the [VALUE] knob to the right.	The display becomes brighter.

3. **Press the [ENTER] button.**

NOTE The contrast setting is saved on the display itself. For this reason, the setting does not return to its factory default value by performing Factory Reset.

Specifying the Video Format (Video Format)

The video format in use differs according to the country or region. If the video format isn't specified correctly when the P-10 is connected to a device, such as a TV, images will not appear on the screen.

When you connect an external display, first check which format is in use and then match the setting on the P-10.

After changing the video format, make sure you turn off the P-10, and then turn it back on again.

Setting	Description
NTSC	This is the standard that is used for television broadcasting mainly in North America, Japan, and Korea.
PAL	This is the standard that is used for television broadcasting mainly in Europe, Continental Asia, and Australia.

Specifying the Video Input Jack (Input Video)

Specify the video input jack.

Match the setting to the input jack you are going to use.

Setting	Description
Composite Video	Specify this setting when connecting a device to the VIDEO jack using a composite video cable.
S-Video	Specify this setting when connecting a device to the S-VIDEO jack using an S-video cable.

Specifying the Capture Still Mode (Capture Still Mode)

You can change the mode for capturing still images.

The P-10 has a mode for capturing one still image at a time and a mode for capturing multiple still images in succession.

Setting	Description
One Shot	When you press the CAPTURE [STILL] button, the P-10 captures one still image.
Continuous	As long as you press the CAPTURE [STILL] button, the P-10 captures images continuously. You can capture up to 100 images at one time. Still images are captured at about 4 shots per second. * The number of shots taken per second differs according to the write speed of your SD card.

Specifying the Type of Color Effect (Color Ctrl Type)

Specify how the colors change when you rotate the [COLOR] knob.

Setting	Description
B&W/Vivid	Turn the knob to the left to change the color to black and white. Turn the knob to the right to make the colors more vivid.
CR/CB	Turn the knob to the left to emphasize red tones and decrease blue tones. Turn the knob to the right to emphasize blue tones and decrease red tones.
Color Filter	Change the color balance.

Specifying the Type of Speed Effect (Speed Ctrl Type)

Specify how the speed changes when you rotate the [SPEED] knob.

Setting	Description
Normal	When you turn the [SPEED] knob to the right, the movie plays back at a faster speed. When you turn the knob to the left, the movie plays back at a slower speed. Turn the knob all the way to the left to pause the movie. When the knob is centered, the movie plays back at normal speed.
Scratch	The movie pauses when the [SPEED] knob is centered. As you rotate the knob to the right, the movie is played forwards and playback speed increases. When you rotate the knob all the way to the right, the movie plays back at normal speed. As you rotate the knob to the left, the movie is played back in reverse and playback speed increases. When you rotate the knob all the way to the left, the movie plays back at normal speed. * The [REVERSE] button is disabled.

Specifying the Fade Effect Color (Output Fade Color L, Output Fade Color R)

Specify the color to use when fading an image.

"Fade" is an image effect that fades from an image to a specified color, or fades from a specified color to an image.

Select "Output Fade Color L" to specify the color that appears when you turn the [VIDEO OUTPUT FADE] knob to the left.

Select "Output Fade Color R" to specify the color that appears when you turn the [VIDEO OUTPUT FADE] knob to the right.

Setting	Description
Black	Fade to black.
White	Fade to white.
Red	Fade to red.
Blue	Fade to blue.
Green	Fade to green.
Yellow	Fade to yellow.

Specifying the Startup Logo (Start LOGO)

Specify whether the Edirol logo appears on the P-10's display when the power is turned on.

Setting	Description
ON	Display the Edirol logo when the P-10 starts up.
OFF	Don't display the Edirol logo when the P-10 starts up.

AUDIO

You can specify the sound level for audio that is input from a device on the AUDIO screen.

Adjusting the Volume Level Using the Level Meter

The "L" and "R" meters at the bottom of the AUDIO screen indicate the volume level of the input audio. While looking at the level meter, rotate the [INPUT LEVEL] knob on the rear panel to adjust the volume level.

When you rotate the knob to the right, the volume increases. When you rotate the knob to the left, the volume decreases.

Adjusting the Audio Input Gain (Recording Gain)

Specify this setting to amplify the volume of input audio.

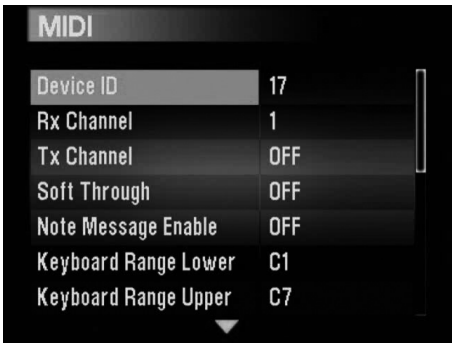
Setting	Description
0, +6, +12	The higher the value you specify, the greater the input gain becomes, and the more the audio level is amplified.

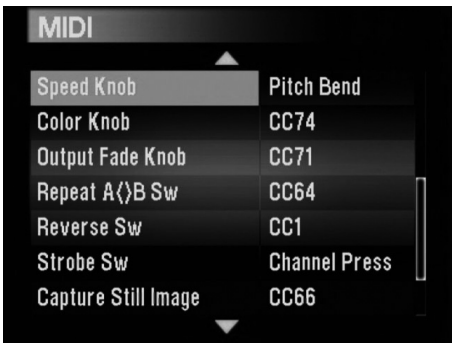
MIDI

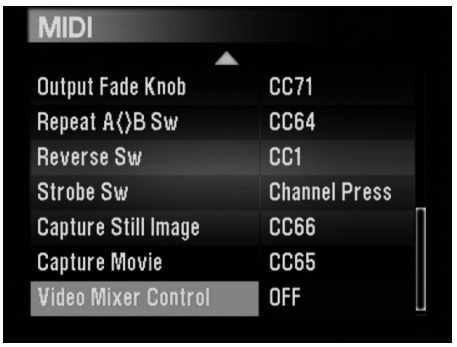
Specify the settings on the MIDI menu when you have connected the P-10 to a MIDI device.

What is MIDI?

MIDI, short for Musical Instrument Digital Interface, is a standardized protocol for performance communication between musical devices that is used throughout the world. You can easily connect devices that support MIDI with a MIDI cable and control one device's operations and settings through another.







Specifying the Device ID (Device ID)

Specify the device ID when you have connected multiple P-10's to a MIDI device so that you can tell them apart.

Setting
17–32

Specifying the Reception Channel (Rx Channel)

Specify the channel for receiving MIDI messages.

Setting	Description
OFF	The P-10 doesn't receive MIDI messages.
1–16	Specify the channel for receiving MIDI messages.

Specifying the Transmission Channel (Tx Channel)

Specify the channel for transmitting MIDI messages.

Setting	Description
OFF	The P-10 doesn't transmit MIDI messages.
1–16	Specify the channel for transmitting MIDI messages.

Specifying Soft Through (Soft Through)

When this setting is turned on, MIDI messages received from the MIDI IN jack are transmitted through the P-10 without any changes.

Setting	Description
ON	Transmit MIDI data received from the MIDI IN jack as is from the MIDI OUT/ THRU jack.
OFF	MIDI data received from the MIDI IN jack is not transmitted.

Operating the P-10 Using Note Messages (Note Message Enable)

Specify the key range for controlling the P-10 using a MIDI device.

Setting		Description
Note Message Enable	**OFF**	Control from the MIDI keyboard is disabled.
	49keys	Select this setting to use 49 keys of a MIDI keyboard. The keyboard range is as follows. White Keys: C2 (36)–G3 (55) <PADs 1–12>, A3 (57) <EXT SOURCE> Black Keys: C#2 (37)–C#3 (49) <BANK A–F> You can change pads using the white keys and change banks using the black keys. You can change the bank number when you press a white key while holding a black key.
	Assignable	You can change the pad and bank by using the keyboard range specified in "Keyboard Range Lower" and "Keyboard Range Upper." The bank number corresponds only to the selected number.
Keyboard Range Lower		When "Assignable" is specified, you can specify the lowest note of the keyboard range.
Keyboard Range Upper		When "Assignable" is specified, you can specify the highest note of the keyboard range.

MEMO You cannot specify upper and lower keys that overlap when specifying the Keyboard Range.

Controlling Movie Speed (Speed Knob)

Specify the type of MIDI message to use for controlling the [SPEED] knob from a MIDI device.

Setting	Description
OFF	Control from the MIDI device is disabled.
CC (1–95)	Control the knob using "Control Change."
Channel Press	Control the knob using "Channel Press."
Pitch Bend	Control the knob using "Pitch Bend."

Controlling the Image Color (Color Knob)

Specify the type of MIDI message to use for controlling the [COLOR] knob from a MIDI device.

Setting	Description
OFF	Control from the MIDI device is disabled.
CC (1–95)	Control the knob using "Control Change."
Channel Press	Control the knob using "Channel Press."
Pitch Bend	Control the knob using "Pitch Bend."

Controlling the Output Fade (Output Fade Knob)

Specify the type of MIDI message to use for controlling the [VIDEO OUTPUT FADE] knob from a MIDI device.

Setting	Description
OFF	Control from the MIDI device is disabled.
CC (1–95)	Control the knob using "Control Change."
Channel Press	Control the knob using "Channel Press."
Pitch Bend	Control the knob using "Pitch Bend."

Controlling Repeat (Repeat A<>B Sw)

Specify the type of MIDI message to use for controlling the [REPEAT A ◀▶ B] button from a MIDI device.

Setting	Description
OFF	Control from the MIDI device is disabled.
CC (1–95)	Control the button using "Control Change."
Channel Press	Control the button using "Channel Press."
Pitch Bend	Control the button using "Pitch Bend."

Controlling Reverse (Reverse Sw)

Specify the type of MIDI message to use for controlling the [REVERSE/SLIDE SHOW] button from a MIDI device.

Setting	Description
OFF	Control from the MIDI device is disabled.
CC (1–95)	Control the button using "Control Change."
Channel Press	Control the button using "Channel Press."
Pitch Bend	Control the button using "Pitch Bend."

Controlling Strobe (Strobe Sw)

Specify the type of MIDI message to use for controlling the [STROBE] button from a MIDI device.

Setting	Description
OFF	Control from the MIDI device is disabled.
CC (1–95)	Control the button using "Control Change."
Channel Press	Control the button using "Channel Press."
Pitch Bend	Control the button using "Pitch Bend."

Controlling Still Image Capture (Capture Still Image)

Specify the type of MIDI message to use for controlling the CAPTURE [STILL] button from a MIDI device.

Setting	Description
OFF	Control from the MIDI device is disabled.
CC (1–95)	Control the button using "Control Change."
Channel Press	Control the button using "Channel Press."
Pitch Bend	Control the button using "Pitch Bend."

Controlling Movie Capture (Capture Movie)

Specify the type of MIDI message to use for controlling the CAPTURE [MOVIE] button from a MIDI device.

Setting	Description
OFF	Control from the MIDI device is disabled.
CC (1–95)	Control the button using "Control Change."
Channel Press	Control the button using "Channel Press."
Pitch Bend	Control the button using "Pitch Bend."

Specifying Video Mixer Control (Video Mixer Control)

Specify the channel to use for controlling an Edirol video mixer from the P-10.

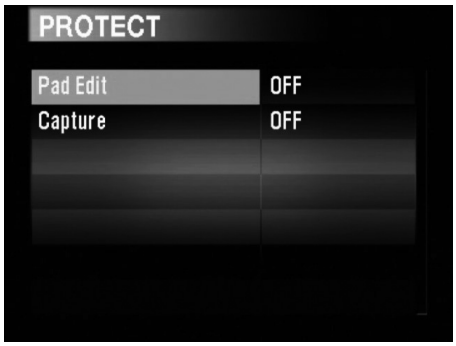
When you play back images on the P-10, the mixer channel changes automatically and the images you are playing back are output through the mixer.

Setting	Description
OFF	The P-10 doesn't control the video mixer.
A ch/Input1–B ch/Input8	Select the channel which connects the P-10 to the mixer.

MEMO Make sure you match the P-10's MIDI transmission channel and the video mixer's MIDI reception channel.

Restricting Buttons During Performance (PROTECT)

Disable buttons relating to pads and the capture buttons from the PROTECT screen. This way you can prevent accidental operation during a performance.



Restricting Buttons Related to Pads (Pad Edit)

When you restrict the buttons related to pads, the [PAD PARAM], [PAD COPY], and [DELETE] buttons are disabled.

NOTE PADs [1]–[12] are not restricted.

Parameter	Setting	Description
Pad Edit	**OFF**	The [PAD PARAM], [PAD COPY], and [DELETE] buttons are enabled.
	ON	The [PAD PARAM], [PAD COPY], and [DELETE] buttons are disabled.

Restricting the Capture Buttons (Capture)

When you restrict the capture buttons, the CAPTURE [MOVIE] and CAPTURE [STILL] buttons are disabled.

Setting		Description
Capture	**OFF**	The CAPTURE [MOVIE] and CAPTURE [STILL] buttons are enabled, and you can capture images.
	ON	The CAPTURE [MOVIE] and CAPTURE [STILL] buttons are disabled, and you can't capture images.

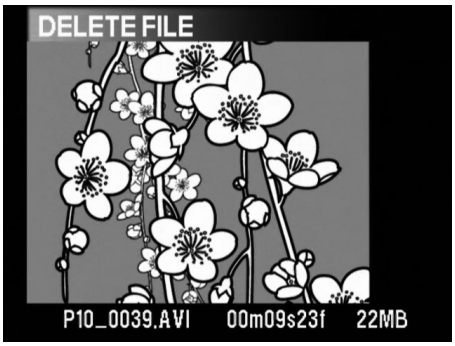
Deleting Files on the SD Card (DELETE FILE)

Delete files on the SD card (movie and still image).

NOTE You cannot restore files that have been deleted. Make sure you back up all important data to a computer.

1. **Rotate the [VALUE] knob to select "DELETE FILE" from the MENU screen, and then press the [ENTER] button.**

2. **Rotate the [VALUE] knob to select the file that you want to delete.**



3. **Press the [ENTER] button.**

4. **Rotate the [VALUE] knob to select "Execute."**

5. **Press the [ENTER] button.**

   When the file has been deleted, "Completed!" appears.

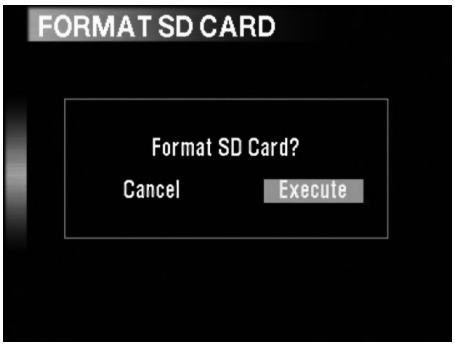
Formatting the SD Card (FORMAT SD CARD)

You can format the SD card. All of the data that was previously on the SD card is deleted and the SD card is formatted to the P-10.

NOTE You cannot restore files that have been deleted. Make sure you back up all important data to a computer.

1. **Rotate the [VALUE] knob to select "FORMAT SD CARD" from the MENU screen, and then press the [ENTER] button.**

2. **Rotate the [VALUE] knob to select "Execute."**



3. **Press the [ENTER] button.**

   The P-10 begins formatting. When formatting is complete, "Please restart the device" appears.

NOTE Depending on the SD card, formatting may take five minutes or more. Do not remove the SD card until formatting has been completed.

4. **Turn the power off, and then on again.**

Returning to the Factory Default Settings (FACTORY RESET)

You can return the P-10 back to its factory default settings.

1. **Rotate the [VALUE] knob to select "FACTORY RESET" from the MENU screen, and then press the [ENTER] button.**

2. **Rotate the [VALUE] knob to select "Execute."**

NOTE While factory reset is being executed, do not turn the power off.

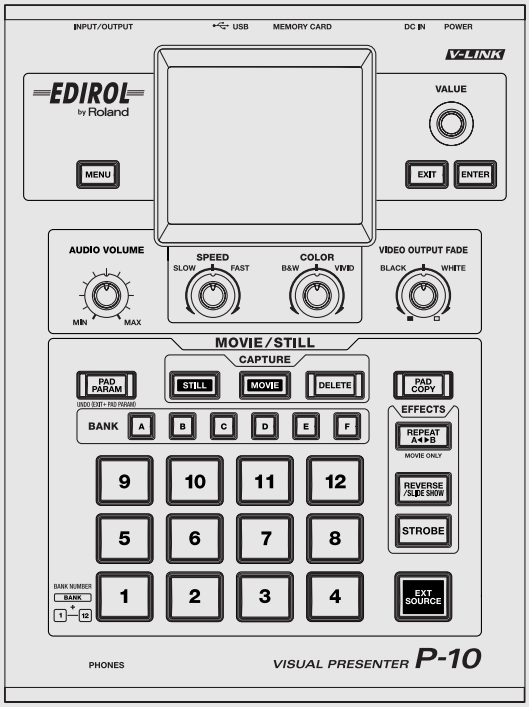
3. **Press the [ENTER] button.**

   When factory reset is completed, "Please restart the device" appears.

   The P-10 is returned to its factory default settings.

4. **Turn the power off, and then on again.**

7. Appendices



Using V-LINK

What is V-LINK?

V-LINK (V-LINK) is a function that allows music and images to be performed together. By using MIDI to connect two or more V-LINK compatible devices, you can easily enjoy performing a wide range of visual effects that are linked to the expressive elements of a music performance.

Using V-LINK you can conveniently control the P-10 from a MIDI device that supports V-LINK.

MEMO You will need a MIDI cable (sold separately) to connect the P-10 and a MIDI device that supports V-LINK in order to use V-LINK.

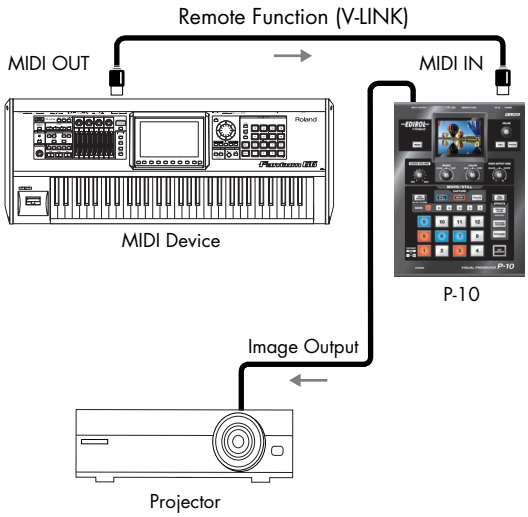
How to Use V-LINK

Connect the P-10 to a MIDI device that supports V-LINK with a MIDI cable. By turning the MIDI device's V-LINK feature on, you can control the P-10 and change the images it displays.

A Connection Example

Connect the MIDI IN connector on the P-10 to the MIDI device's MIDI OUT connector with a MIDI cable.

NOTE To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.



Items You Can Specify with V-LINK

When you turn the MIDI device's V-LINK feature on, all of the system settings return to their default value.

When you turn the MIDI device's V-LINK feature off, P-10 settings return to the values they had before V-LINK was turned on.

MENU/VIDEO (p. 57)

Items You Can Specify with V-LINK	Default Setting
Color Ctrl Type	B&W/Vivid
Speed Ctrl Type	Normal
Output Fade Color L	Black
Output Fade Color R	White

MENU/MIDI (p. 59)

Items You Can Specify with V-LINK	Default Setting
Rx Channel	1
Note Message Enable	OFF
Keyboard Range Lower	C1
Keyboard Range Upper	C7
Speed Knob	Pitch Bend
Color Knob	CC77
Output Fade Knob	CC71
Repeat A<>B Sw	CC64
Reverse Sw	CC1
Strobe Sw	Channel Press
Capture Still Image	CC66
Capture Movie	CC65

MEMO For details about specifying V-LINK settings, see the manual that came with the V-LINK device.

SD Cards You Can Use With the P-10

Recommended SD Cards

SD card (supports 512MB–16GB)
Supports SDHC

If you intend to use an SD card other than the one supplied with the P-10, check the Roland website first.
The latest information is listed for you on our site.
http://www.rolandsystemsgroup.net/

NOTE Depending on the SD card maker or type, files may not save or play back correctly.

NOTE Never insert or remove the SD card while the P-10's power is turned on. Doing so may corrupt the data on the SD card.

NOTE Carefully insert the SD card all the way in—until it is firmly in place.

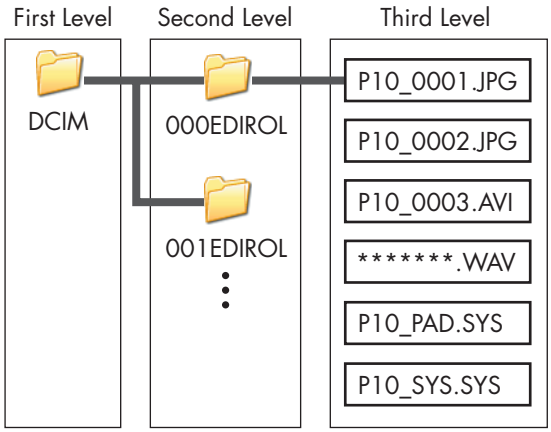
SD Card Protection Feature (LOCK)

Slide the write protect switch on the side of the SD card to the "LOCK" position. In this position, the SD card cannot be written to and you can protect the data on the SD card. When you want to write data to and delete data from the SD card, slide the switch to unlock the card.

MEMO When the write protect switch is in the "LOCK" position, the following buttons and functions do not work:

- CAPTURE [MOVIE] button
- CAPTURE [STILL IMAGE] button
- [PAD PARAM] button
- [DELETE] button
- [PAD COPY] button
- SD CARD FORMAT function

SD Card Folder Structure

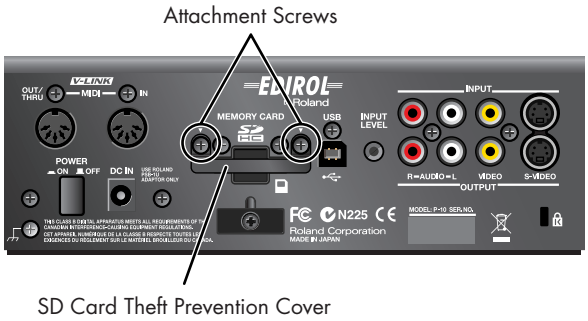


P10_**.JPG**	Still Image File	* Four digit numbers "****" are added in numerical order. Numbers 0001 – 9999 are used.
P10_**.AVI**	Movie File	
******.WAV**	Audio File	
P10_PAD.SYS	PAD PARAMETER settings	
P10_SYS.SYS	SYSTEM Settings backup file	

Attaching the SD Card Theft Prevention Cover

At the time of purchase, the P-10 has specialized screws on the back panel marked with a ▼.

When you use these screws to attach the SD card cover, the card can't easily be removed, which is useful for preventing the SD card from being stolen.



NOTE Make sure you use the screws that you removed from the P-10. Using another type of screw could damage the P-10.

P-10 File Formats

P-10 Supported Formats

Movies

Format	Motion JPEG
Size	640 x 480 pixels
Frame Rate	29.97 fps (NTSC)
	25 fps (PAL)

NOTE Images that have been converted with other commercially available software may not play back on the P-10. Convert still images that you have made on the computer to a P-10 supported format using P-10 Image Converter.

Still Images

Format	JPEG
Size	640 x 480 pixels

NOTE You can write images that you have taken with a digital camera or similar device to the SD card, however depending on the size of the images they might not be displayed correctly on the P-10.

Audio

Format	WAV (stereo)
Sampling Frequency	44.1 kHz
Sample Size	16 bit

Safety Area

What is the safety area?

When you display images that you have created with a device such as a computer on a TV screen, the outer edges of the images may be cut off depending on the maker or the type of TV. In other words, if there are words or elements of an image placed close to the edge, you may not be able to see them on the TV screen.

For this reason, you should be aware of the "safety area" when creating your materials.

As an approximation, you should specify about 90% of the inner area of the screen. When placing a title or characters, place them within 80% of the inner area to be safe.

Slide Show Set List

Slide Show Set

No.	Parameter Name	Description
1	Preset 1	Simple slide show presentation
2	Preset 2	Presentation with active motions
3	Preset 3	Presentation with a dynamic, sports-like feel
4	Preset 4	Presentation with a promotional video feel
5	Preset 5	Presentation with a travel log photo album feel
6	Preset 6	Presentation with a family photo album feel
7	Preset 7	Presentation with a quick flash and change effect
8	Preset 8	Presentation with little development and a calm feel
9	Preset 9	Presentation with rich expressions, ideal for concert use
10	Preset 10	Presentation with a multi-screen feel
11	User Set	User Set You can create an original slide show set for each pad by selecting and arranging motions (p. 47)

Motions

No.	Parameter Name	Description
1	Zoom In B-W	Zoom in to the image from a black screen, and then fade out to white.
2	Zoom Out B-W	Zoom out to the image from a black screen, and then fade out to white.
3	Zoom In W-B	Zoom in to the image from a white screen, and then fade out to black.
4	Zoom Out W-B	Zoom out to the image from a white screen, and then fade out to black.
5	Zoom In B-B	Zoom in to the image from a black screen, and then fade out to black.
6	Zoom Out B-B	Zoom out to the image from a black screen, and then fade out to black.
7	Zoom In W-W	Zoom in to the image from a white screen, and then fade out to white.
8	Zoom Out W-W	Zoom out to the image from a white screen, and then fade out to white.
9	Slide B-B 1	Fade in from black while sliding the image down, and then fade out to black.
10	Slide B-B 2	Fade in from black while sliding the image left, and then fade out to black.
11	Slide B-B 3	Fade in from black while sliding the image diagonally to the upper-left, and then fade out to black.
12	Slide B-B 4	Fade in from black while sliding the image diagonally to the lower-left, and then fade out to black.
13	Slide B-B 5	Display the image on the right side and slide up.
14	Slide B-B 6	Display the image on the left side and slide up.
15	Slide W-W	Fade in from white while sliding the image left, and then fade to white.
16	S&Z B-B 1	Zoom in to the image from a black screen while sliding down, and then fade to black.
17	S&Z B-B 2	Zoom in to the image from a black screen while sliding left, and then fade to black.
18	S&Z W-W 1	Zoom in to the image from a white screen while sliding down, and then fade to white.
19	S&Z W-W 2	Zoom in to the image from a white screen while sliding diagonally to the upper-left, and then fade to white.
20	S&Z W-W 3	Zoom in to the image from a white screen while sliding diagonally to the lower-left, and then fade to white.
21	CF Zoom B-B	Fade in from black while crossfading two images zooming out, and then fade to black.
22	CF Zoom W-B	Fade in from white while crossfading two images zooming out, and then fade to black.
23	CF Slide B-B 1	Fade in from black while crossfading two images sliding left, and then fade to black.
24	CF Slide B-B 2	Fade in from black while crossfading two images sliding up, and then fade to black.
25	CF Slide B-B 3	Fade in from black while crossfading two images sliding one image diagonally down and one image up, and then fade to black.
26	CF S&Z W-B 1	Fade in from white while crossfading two images zooming out and sliding horizontally, and then fade to black.
27	CF S&Z W-B 2	Fade in from white while crossfading two images zooming out and sliding horizontally, and then fade to black.
28	CF S&Z W-B 3	Fade in from white while crossfading two images zooming out and sliding diagonally, and then fade to black.
29	CF S&Z W-B 4	Fade in from white while crossfading two images zooming out and sliding diagonally, and then fade to black.
30	CF S&Z W-B 5	Fade in from white while crossfading two images zooming out and sliding vertically, and then fade to black.
31	CF Small 1	Crossfade two small images in the upper-left corner.
32	CF Small 2	Crossfade two small images in the upper-right corner.
33	CF Small 3	Crossfade two small images in the lower-left corner.
34	CF Small 4	Crossfade two small images in the lower-right corner.
35	CF Small 5	Crossfade two small images at center-left.
36	CF Small 6	Crossfade two small images at center-right.
37	Multi-2 1	Display two images at horizontal center, and then switch to the next images.

No.	Parameter Name	Description
38	Multi-2 2	Display two images at vertical center, and then switch to the next images.
39	Multi-3 1	Display three images in the center, zoom into the center image and switch it to the next image.
40	Multi-3 2	After displaying three images on the left, change all three images to a different image.
41	Multi-3 3	After displaying three images on the right, change all three images to a different image.
42	Multi-4 1	After displaying four images, display one image in the center.
43	Multi-4 2	After displaying four images, display one large image in the center.
44	Multi-9	Display nine images.
45	Multi Zoom 1	After switching small images in the center, enlarge the last image.
46	Multi Zoom 2	Display an image. Shrink it and switch images, and then enlarge the last image.
47	Multi Zoom 3	Display an image, switch images, and then shrink the last image.
48	Multi Zoom 4	Slide a small image vertically to the center, switch images, and then enlarge the last image.
49	Multi Zoom 5	Slide a small image from the bottom to the center, switch images, and then enlarge the last image.
50	Divide-4 1	After dividing an image into four parts, shrink a different image.
51	Divide-4 2	After dividing an image into four parts, enlarge a different image.
52	Divide-9 1	Divide an image into nine parts, displaying them horizontally.
53	Divide-9 2	Divide an image into nine parts, displaying them vertically.
54	Zoom B-W (S)	Quickly zoom in to the image from a black screen, and then fade out to white.
55	Zoom B-W 2(S)	Quickly zoom in to the image from a black screen, and then fade out to white.
56	Zoom W-B (S)	Quickly zoom in to the image from a white screen, and then fade out to black.
57	Zoom B-B 1(S)	Quickly zoom in to the image from a black screen, and then fade out to black.
58	Zoom B-B 2(S)	Quickly zoom in to the image from a black screen, and then shrink the last image.
59	Zoom W-W 1(S)	Quickly zoom in to the image from a white screen, and then fade out to white.
60	Zoom W-W 2(S)	Quickly zoom out to the image from a white screen, and then fade out to white.
61	Zoom I/O 1(S)	After quickly zooming in and out of an image, slide the image left.
62	Zoom I/O 2(S)	After quickly zooming in and out of an image, slide the image up.
63	Slide B-W (S)	Quickly fade in from black while sliding the image vertically, and then fade to white.
64	Slide W-B (S)	Quickly fade in from white while sliding the image vertically, and then fade to black.
65	Slide W-W (S)	Quickly fade in from white while sliding the image vertically, and then fade to white.
66	S&Z 1(S)	After quickly sliding the image right, enlarge the image.
67	S&Z 2(S)	After quickly sliding the image down, enlarge the image.
68	Flash B-W (S)	After quickly fading in from black, flash the image, and then fade to white.
69	Flash W-B (S)	After quickly fading in from white, flash the image, and then fade to black.
70	Zoom Effect (S)	Quickly zoom in to the image, and display multiple images for a layered effect.
71	B-W (Flash)	Very quickly fade to the image from black and then fade to white.
72	W-B (Flash)	Very quickly fade to the image from white and then fade to black.
73	Slide B-W(Flash)	Very quickly fade from black while sliding the image left, and then fade to white.
74	Slide W-B(Flash)	Very quickly fade from white while sliding the image left, and then fade to black.
75	Break (Flash)	Very quickly display a black screen.
76	Fade B (Flash)	Very quickly fade from white to black.
77	Fade W (Flash)	Very quickly fade from black to white.
78	Flash B (Flash)	Very quickly flash a black screen.
79	Flash W (Flash)	Very quickly flash a white screen.

Troubleshooting

If the P-10 does not operate as you expect, please check the following points first. If this does not resolve the problem, contact your nearest Roland service center or authorized Roland distributor.

* If a message appears on the screen during operation, see "Error Messages" (p. 75).

Problem	Cause/Solution	Page
The power doesn't turn on	Are the AC adaptor and power cord connected? → Connect the AC adaptor and power cord correctly.	p. 17
	Have you inserted an SD card? → The P-10 won't function unless an SD card has been inserted. Please insert an SD card.	p. 17
Can't see any images	Is the P-10's or the connected device's power turned on? → Connect the AC adaptor, power cord and external device correctly and turn the power on.	p. 17
	Have you inserted an SD card? → The P-10 won't function unless an SD card has been inserted. Please insert an SD card.	p. 17
	Are there image files on the SD card? → Save images on the SD card by capturing images with the P-10.	p. 34
	Is the [VIDEO OUTPUT FADE] knob not centered? → Please center the [VIDEO OUTPUT FADE] knob (you will feel the knob stick in the center).	p. 29
Images don't display correctly or the color appears strange	Is NTSC/PAL set correctly? → Check your TV and match its setting on the P-10.	p. 57
	Is the [VIDEO OUTPUT FADE] knob not centered? → Please center the [VIDEO OUTPUT FADE] knob (you will feel the knob stick in the center).	p. 29
	Is the [SPEED] knob not centered? → Please center the [SPEED] knob (you will feel the knob stick in the center).	p. 28
	Is "Scratch" specified in the "Speed Ctrl Type" setting? → When "Scratch" is specified, the movie will stop when the [SPEED] knob is centered.	p. 58
	Is the [COLOR] knob not centered? → Please center the [COLOR] knob (you will feel the knob stick in the center).	p. 28
	Was the image made on a computer? → Depending on the file, the image may not play back correctly. Install P-10 Image Converter from the supplied CD-ROM and convert the image to a format supported by the P-10.	p. 37
	Is the image file too big? → If the image file is too big, the image may not play back immediately after pushing the pad. Truncate parts of the file that you don't need to make the file smaller.	p. 49
The display flickers	Are you playing back an image with many rapid changes? → The display may flicker because the image has many rapid changes. This has no effect on the video output.	–
The slide show doesn't start immediately	It may take some time for a slide show of still images to start.	–
Images from the connected device don't appear on the P-10's display	Is the "Input Video" setting specified correctly? → Check the "Input Video" setting from the MENU screen.	p. 57

Problem	Cause/Solution	Page
The movie doesn't stop	Is the Play Mode set to play back in a loop? → If the Play Mode is set to "Forward Loop" or "Alternate Loop," then playback repeats until you press the [EXIT] button.	p. 43
	Is the Play Mode set to "One Shot 1"? → If the Play Mode is set to "One Shot 1," then after the movie has finished, the last frame remains on the screen and play back stops. To clear the display on the screen, press the [EXIT] button.	p. 43
	Are you controlling the P-10 from an external MIDI device using Program Change while the Play Mode is set to "Gate1" or "Gate2"? → If you are controlling the P-10 from an external MIDI device using Program Change while the Play Mode is set to "Gate1" or "Gate2," then the movie is played back continuously. Change the Note Message Enable setting to either "49 Keys" or "Assignable," and then control the P-10 using Note Message.	p. 43 p. 60
There is no sound	Is the audio cable connected correctly? → Check the cable connection.	p. 18
	Is the audio volume turned down? → Rotate the [AUDIO VOLUME] knob to specify an appropriate audio level.	p. 14
The volume level of the instrument connected to the P-10 is too low	Is the input level set too low? → Rotate the [INPUT LEVEL] knob to adjust the setting to an appropriate level.	p. 59
	Could you be using a connection cable that contains a resistor? → Use a connection cable that does not contain resistor.	–
The audio contains noise or the sound is distorted	Is the audio input level set appropriately when you capture images? → If the input level is set too high, the sound is distorted. Conversely, if the input level is set too low, it will sound like the audio contains noise. Rotate the [INPUT LEVEL] knob to adjust the input level.	p. 59
	Is the [SPEED] knob centered? → When you increase the playback speed, the audio may sound like noise because its playback speed is also increased.	p. 28
The audio and images are not in sync	Is Audio Sync set to "OFF"? → Set Audio Sync to "ON."	p. 44
	Have you added an audio file? → If the lengths of the audio and the images are different, then they will not be in sync. → The [REPEAT A ◀▶ B] button doesn't work for audio files that you have added.	p. 44 p. 46
Can't capture images with the P-10	Is the SD card write protect switch set to "Lock"? → Move the switch to unlock the SD card.	p. 67
	Is PROTECT on the MENU screen set to "ON"? → Set PROTECT to "OFF."	p. 62
	Is there enough memory on the SD card? → When there is insufficient memory on the SD card, the CAPTURE [STILL] and CAPTURE [MOVIE] buttons don't light up. Check the available SD card memory from the INFORMATION menu.	p. 55
	Are you using the right type of SD card? → Depending on the SD card, the write speed may be extremely slow and you may not be able to capture images. Check the recommended SD card types for the P-10.	p. 67

Problem	Cause/Solution	Page
Effects don't work	Is the [EXT SOURCE] button on? → When the [EXT SOURCE] button is on, images from the device connected to the P-10 appear on the P-10's display. You can't apply effects to images from an external source.	p. 26
	Is a slide show being displayed? → While a slide show is being displayed, the [SPEED], [COLOR], and [VIDEO OUTPUT FADE] knobs are ineffective.	p. 30
	Is a still image being played back? → While a still image is being played back, the [SPEED] knob and [REPEAT A ◀▶ B] button don't work.	p. 28
Even when the SD card is inserted, the P-10 doesn't recognize it	Is the SD card inserted correctly? → Please check the SD card.	p. 17
	Are you using the right type of SD card? → For the recommended SD card types, see "Recommended SD Cards."	p. 67

Error Messages

When an error message appears on the P-10, the P-10 is not functioning correctly for some reason or there was an error in user operation. Try the following solutions when this happens.

Message	Description/Solution
This file cannot be used on P-10.	This is a file that cannot be used on the P-10. Convert the file to a P-10 supported format using P-10 Image Converter and save it to the SD card.
This card cannot be used on P-10.	Because there is a problem with the card, it cannot be used. See "Recommended SD Cards" (p. 67).
No remaining capacity in SD card.	The SD card memory is full. Delete some files from the SD card or use a new SD card.
Desired file does not exist.	The image file does not exist on the SD card. Capture images from a connected device or use P-10 Image Converter to save image files to the SD card (p. 37).
Select still image file.	Select a still image.
Select movie file.	Select a movie.
This list is maximum. You cannot add on the still image.	The still image list has reached 100 images. If you want to add images to the list, delete some of the images in the list first.
This card is protected.	The SD card write protect switch is in the "LOCK" position. Move the switch to unlock the SD card.
Backup file does not exist.	The System Backup file doesn't exist.
Now processing. DO NOT turn off power.	The system is processing. Don't turn off the power.

Visual Presenter
Model P-10

MIDI Implementation Chart

Date : Apr. 1, 2008
Version : 1.00

Function...		Transmitted	Recognized	Remarks
Basic Channel	Default Changed	1–16 1–16	1–16 1–16	Settings can be saved
Mode	Default Messages Altered	X X **********	X X **********	
Note Number :	 True Voice	0–127 **********	0–127 **********	Only when Note Message Enable is not set to OFF (varies by setting).
Velocity	Note On Note Off	X X	X X	
After Touch	Key's Channel's	X O *1	X O *1	 Control various parameters
Pitch Bend		O *1	O *1	Control various parameters
Control Change	0, 32 1–31 33–95	O O *1 O *1	O O *1 O *1	Switch banks (0–71) Control various parameters Control various parameters
Program Change	: True Number	O 1–12	O 1–12	Select pad
System Exclusive		X	O	Parameter Setting, V-LINK
System Common	: Song Position : Song Select : Tune Request	X X X	X X X	
System Real Time	: Clock : Commands	X X	X X	
Aux Messages	: All Sound Off : Reset All Controllers : All Notes Off : Active Sensing : System Reset	O X O O X	O *2 O O *2 O X	
Notes		*1 X and O may change according to the setting. *2 Turns off (cancels) images that are being played back.		

O : Yes
X : No

Main Specifications

P-10: Visual Presenter

Max. number of files that can play back at once	Image: 1
	Audio: 1 (stereo)
Video Format	NTSC, PAL
File Formats	Movie Format: Motion JPEG Size: 640 x 480 pixels Frame Rate: 29.97 fps (NTSC) 25 fps (PAL)
	Still Image Format: JPEG Size: 640 x 480 pixels
	Audio Format: WAV Sampling Frequency: 44.1kHz Sample Size: 16 bit
Recording Media	SD (HC) Memory Card
Recording Time	512MB: 7 min.
	1GB: 15 min.
	2GB: 30 min.
	4GB: 60 min.
	8GB:120 min.
	16GB: 240 min.
	* These recording times are estimates. The actual times may differ slightly. * If there are many recorded files, the total recording time may be less.
Max. No. of Recorded Files	When only movies are assigned: 864 (72 banks x 12 pads) When only still images are assigned: 86,400 (72 banks x 12 pads x 100 images)
Movie Playback Modes	Forward Loop Play Back
	Alternate Loop Play Back
	One Shot Play Back (2 types)
	Gate Play Back (2 types)
Image Effects	Repeat, Reverse, Strobe, Speed, Color, Output Fade, Slide Show
Pads	12 Pads
Controllers	SPEED knob, COLOR knob, VIDEO OUTPUT FADE knob
Display	Graphic LCD (color) 3.5 inch, TFT, With Backlight
Connecting Jacks	Composite Video Input Jack (RCA pin type)
	S-Video Input Jack (4 pin mini-DIN type)
	Line Input Jack (L, R) (RCA pin type)
	Composite Video Output Jack (RCA pin type)
	S-Video Output Jack (4 pin mini-DIN type)
	Line Output Jack (L, R) (RCA pin type)
	PHONES Jack (standard stereo type)
	MIDI Connector (IN, OUT/THRU)
	USB Connector (supports storage class)
	DC IN Jack
	SD (HC) Memory Card Slot
Power Supply	DC 9V (AC adaptor)
Current Draw	900 mA
Measurements	215 (W) x 300 (D) x 91 (H) mm 8-1/2 (W) x 11-13/16 (D) x 3-5/8 (H) inch
Weight	1.9 kg (without AC adaptor) 4 lbs. 4 oz.
Accessories	Owner's manual
	AC Adaptor
	Power Cord (for AC adaptor)
	CD-ROM (P-10 Image Converter)
	SD Card
	SD Card Theft Prevention Cover

* In the interest of product improvement, the specifications and/or appearance of this unit are subject to change without prior notice.

Artist Introductions

MASARU OZAKI (aka VJ MASARU)

At the age of 19, Masaru Ozaki crossed over to America from Japan to perform in the "Rhythm Of The World" world tour as a dancer. Participating in such events as an EC Flugshow and a private event for Prince William, Masaru traveled through twelve countries in one year, learning technical and stage direction for images and lighting. After returning to Japan, he not only re-entered the dance field but spread himself further, becoming a narrator, radio DJ, and MC for business events. He has even appeared on MTV as a VJ, introducing some of the latest club music.

As an auteur, Masaru has created many opening movies and commercials for television, as well as PVs. In motion design, Masaru particularly excels in creating animations with expressive textures. His stylish and creative images which incorporate the heart of imagery, continue to mesmerize his many fans. As a performing art pioneer, Masaru creates images in real-time to music at live events and released the "BEHIND" DVD in 2005 featuring a performance in which he used a new crossfader technique that had never been seen before.

In 2006, Masaru performed at the SONAR2006, the world's greatest and largest music and media art festival held in Spain. There he hosted workshops so popular that there was standing room only. He also performed at Florida135, one of Spain's most famous clubs, as its first Japanese VJ, pumping the packed audience. Masaru has also performed at Europe's HD Forum two years in a row (2006, 2007) where he was introduced alongside Ryuichi Sakamoto. He received high acclaim from the local media, who stated that he was a "visual artist of a new level."

In 2008, he appeared as the final performer in the first ever VJ SUMMIT sponsored by Apple, introducing his "cutting performance," creating images in real-time. With a play style that reflects a sense of rhythm born from his street dance upbringing, Masaru continues to be a major influence on the scene.

Aside from images, Masaru has branched into other areas of design such as illustration, space design, object design, graphics, and apparel. His publications include such releases as "BlueFlower" (TDK Core) and "BEHIND" (TDK Core).

He has produced or created performance images for concerts for Hideaki Tokunaga, Hound Dog, Un Girls, Tomoko Yazawa and Tokyo Collection, and has performed at multiple club events. He has created the PV for Gravity and Yellow Generation, and has created numerous title background illustrations for TV shows such as "Daisuki!", Denki Groove "WIRE.WIRELESS" TV SPOT, and Universal Studios Japan "KWBB." Masaru also designs graphics for advertisements and fliers, helps supervise Roland and other companies' product design, and assists brand art direction for companies such as Goldwin.

Tosh Masuda

Since graduating from the Showa Academia Musicae Composition Department's Digital Music course Tosh Masuda has appeared as an arranger, sound producer, composer, programmer, and musician. As a sound producer, Tosh has worked with such Japanese artists as ACO, Keyco, SAKURA, HOME MADE KAZOKU, CORE OF SOUL, and SKOOP ON SOMEBODY. He has made arrangements for Chemistry, RHYTHEM, and Miho Nakayama and worked as a mixer for Ayumi Hamasaki and MIHO. Tosh is a multi instrumentalist musician, doing his own programming and performing on guitar and bass. With the Japanese group CALM, Tosh has also shown his skill as a singer on multiple recordings, at concerts, and singing for television commercials.

Applying his talents to an even wider array of activities, Tosh has gone to work as a sound producer for live events at Ninety-Nine, and has directed stage music for the Japanese comedy pair, Un Girls. He is also credited with creating the opening theme for various radio programs. Tosh creates audio for use at concerts by Group Tamashii, a Japanese band created by the well known Japanese screen writer, Kankuro Kudo.

Tosh Masuda also holds a position as an adjunct professor in the Sound Production Course at the Showa Academia Musicae Composition Department.

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As of Oct. 1, 2007 (EDIROL-2)

For EU Countries

UK This symbol indicates that in EU countries, this product must be collected separately from household waste, as defined in each region. Products bearing this symbol must not be discarded together with household waste.

DE Dieses Symbol bedeutet, dass dieses Produkt in EU-Ländern getrennt vom Hausmüll gesammelt werden muss gemäß den regionalen Bestimmungen. Mit diesem Symbol gekennzeichnete Produkte dürfen nicht zusammen mit den Hausmüll entsorgt werden.

FR Ce symbole indique que dans les pays de l'Union européenne, ce produit doit être collecté séparément des ordures ménagères selon les directives en vigueur dans chacun de ces pays. Les produits portant ce symbole ne doivent pas être mis au rebut avec les ordures ménagères.

IT Questo simbolo indica che nei paesi della Comunità europea questo prodotto deve essere smaltito separatamente dai normali rifiuti domestici, secondo la legislazione in vigore in ciascun paese. I prodotti che riportano questo simbolo non devono essere smaltiti insieme ai rifiuti domestici. Ai sensi dell'art. 13 del D.Lgs. 25 luglio 2005 n. 151.

ES Este símbolo indica que en los países de la Unión Europea este producto debe recogerse aparte de los residuos domésticos, tal como esté regulado en cada zona. Los productos con este símbolo no se deben depositar con los residuos domésticos.

PT Este símbolo indica que nos países da UE, a recolha deste produto deverá ser feita separadamente do lixo doméstico, de acordo com os regulamentos de cada região. Os produtos que apresentem este símbolo não deverão ser eliminados juntamente com o lixo doméstico.

NL Dit symbool geeft aan dat in landen van de EU dit product gescheiden van huishoudelijk afval moet worden aangeboden, zoals bepaald per gemeente of regio. Producten die van dit symbool zijn voorzien, mogen niet samen met huishoudelijk afval worden verwijderd.

DK Dette symbol angiver, at i EU-lande skal dette produkt opsamles adskilt fra husholdningsaffald, som defineret i hver enkelt region. Produkter med dette symbol må ikke smides ud sammen med husholdningsaffald.

NO Dette symbolet indikerer at produktet må behandles som spesialavfall i EU-land, iht. til retningslinjer for den enkelte regionen, og ikke kastes sammen med vanlig husholdningsavfall. Produkter som er merket med dette symbolet, må ikke kastes sammen med vanlig husholdningsavfall.

SE Symbolen anger att i EU-länder måste den här produkten kasseras separat från hushållsavfall, i enlighet med varje regions bestämmelser. Produkter med den här symbolen får inte kasseras tillsammans med hushållsavfall.

FI Tämä merkintä ilmaisee, että tuote on EU-maissa kerättävä erillään kotitalousjätteistä kunkin alueen voimassa olevien määräysten mukaisesti. Tällä merkinnällä varustettuja tuotteita ei saa hävittää kotitalousjätteiden mukana.

HU Ez a szimbólum azt jelenti, hogy az Európai Unióban ezt a terméket a háztartási hulladéktól elkülönítve, az adott régióban érvényes szabályozás szerint kell gyűjteni. Az ezzel a szimbólummal ellátott termékeket nem szabad a háztartási hulladék közé dobni.

PL Symbol oznacza, że zgodnie z regulacjami w odpowiednim regionie, w krajach UE produktu nie należy wyrzucać z odpadami domowymi. Produktów opatrzonych tym symbolem nie można utylizować razem z odpadami domowymi.

CZ Tento symbol udává, že v zemích EU musí být tento výrobek sbírán odděleně od domácího odpadu, jak je určeno pro každý region. Výrobky nesoucí tento symbol se nesmí vyhazovat spolu s domácím odpadem.

SK Tento symbol vyjadruje, že v krajinách EÚ sa musí zber tohto produktu vykonávať oddelene od domového odpadu, podľa nariadení platných v konkrétnej krajine. Produkty s týmto symbolom sa nesmú vyhadzovať spolu s domovým odpadom.

EE See sümbol näitab, et EL-i maades tuleb see toode olemprügist eraldi koguda, nii nagu on igas piirkonnas määratletud. Selle sümboliga märgitud tooteid ei tohi ära visata koos olmeprügiga.

LT Šis simbolis rodo, kad ES šalyse šis produktas turi būti surenkamas atskirai nuo buitinių atliekų, kaip nustatyta kiekviename regione. Šiuo simboliu paženklinti produktai neturi būti išmetami kartu su buitinėmis atliekomis.

LV Šis simbols norāda, ka ES valstīs šo produktu jāievāc atsevišķi no mājsaimniecības atkritumiem, kā noteikts katrā reģionā. Produktus ar šo simbolu nedrīkst izmest kopā ar mājsaimniecības atkritumiem.

SI Ta simbol označuje, da je treba proizvod v državah EU zbirati ločeno od gospodinjskih odpadkov, tako kot je določeno v vsaki regiji. Proizvoda s tem znakom ni dovoljeno odlagati skupaj z gospodinjskimi odpadki.

GR Το σύμβολο αυτό υποδηλώνει ότι στις χώρες της Ε.Ε. το συγκεκριμένο προϊόν πρέπει να συλλέγεται χωριστά από τα υπόλοιπα οικιακά απορρίμματα, σύμφωνα με όσα προβλέπονται σε κάθε περιοχή. Τα προϊόντα που φέρουν το συγκεκριμένο σύμβολο δεν πρέπει να απορρίπτονται μαζί με τα οικιακά απορρίμματα.

For China

有关产品中所含有害物质的说明

本资料就本公司产品中所含的特定有害物质及其安全性予以说明。

本资料适用于 2007 年 3 月 1 日以后本公司所制造的产品。

环保使用期限

此标志适用于在中国国内销售的电子信息产品，表示环保使用期限的年数。所谓环保使用期限是指在自制造日起的规定期限内，产品中所含的有害物质不致引起环境污染，不会对人身、财产造成严重的不良影响。

环保使用期限仅在遵照产品使用说明书，正确使用产品的条件下才有效。

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部件名称	有毒有害物质或元素					
	铅(Pb)	汞(Hg)	镉(Cd)	六价铬(Cr(VI))	多溴联苯(PBB)	多溴二苯醚(PBDE)
外壳（壳体）	×	○	○	○	○	○
电子部件（印刷电路板等）	×	○	×	○	○	○
附件（电源线、交流适配器等）	×	○	○	○	○	○

○：表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T11363-2006 标准规定的限量要求以下。

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因根据现有的技术水平，还没有什么物质能够代替它。

For the USA

DECLARATION OF CONFORMITY
Compliance Information Statement

Model Name : P-10
Type of Equipment : Visual Presenter
Responsible Party : Roland Systems Group U.S.
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