This video copy processor complies with the requirements of the EC Directive 89/336/EEC, 73/23/EEC, 93/42/EEC and 93/68/EEC.
The electro-magnetic susceptibility has been chosen at a level that gains proper operation in residential areas, on business and light industrial premises and on small-scale enterprises, inside as well as outside of the buildings. All places of operation are characterised by their connection to the public low voltage power supply system.
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SAFETY PRECAUTIONS

In the interest of safety, please observe the following precautions:

POWER REQUIREMENT
This Colour Video Copy Processor is designed for operation on 220-240V, 50Hz AC. Never connect to any outlet or power supply having a different voltage or frequency.

WARNING: THIS APPARATUS MUST BE EARTHED.
AVERTISSEMENT: CET APPAREIL DOIT ETRE MIS A LA TERRE.

PROTECTIVE MEASURES

IF ABNORMALITIES ARISE, ....
Use of the unit during emission of smoke or abnormal sounds (without adopting countermeasures) is dangerous. In such a case, unplug the power cord from the source outlet immediately, and request maintenance service from the sales dealer.

NEVER INSERT ANY OBJECT INTO THE UNIT
Foreign objects of any kind inserted into this unit constitute a safety hazard and can cause extensive damage.

DO NOT PLACE ANYTHING ON THE COLOUR VIDEO COPY PROCESSOR
Heavy objects placed on the Colour Video Copy Processor can cause damage or obstruct proper ventilation.

PROTECT THE POWER CORD
Damage to the power cord may cause fire or shock hazard. When unplugging, hold by the plug only and remove carefully.

DO NOT PLACE WATER CONTAINERS ON THE UNIT
Do not place flower vases, and other water-holding containers on the device. If, for some reason, water seeps to the inside of the unit, unplug the power cord from the source outlet, and contact the sales dealer. If used without corrective measures, the unit may be damaged.

“In the interest of safety, avoid handling of liquids near the unit.”

DO NOT REMOVE THE CABINET
Touching internal parts is dangerous, besides, it may lead to malfunction. Contact the sales dealer to carry out internal checks and adjustments. Before opening the cover for eliminating a jammed paper, etc., be sure to disconnect the power cord plug.

UNPLUG THE POWER CORD DURING A LONG ABSENCE
Turn off the MAIN power switch and unplug the power cord during a long absence.

WHEN TRANSPORTING THE UNIT
When transporting the unit, remove the sheet cartridge and paper. Make sure to slide the printing unit lock switch to the lock position.

BE CAREFUL AROUND PRINT PAPER EXIT SLOT
Do not insert your hand or any material into the paper exit slot during printing.
Do not touch the cutter blade inside the paper exit slot.
Otherwise, your finger will be injured.

DO NOT TOUCH THE THERMAL HEAD
Do not touch your hand to the thermal head (located inside the unit).
The thermal head is heated to high temperature.
This may cause injury.

BE CAREFUL WITH THE PRINTING UNIT
Do not move the unit while the printing unit is sliding out. This may cause injury.
Be careful not to catch your finger in the printing unit while the printing unit is being retracted into the unit.

CONNECTION CABLES
Use the provided power cord. When connecting the unit with an equipment with RS-232C interface, use the RS-232C crossover cable.
**SAFETY PRECAUTIONS**

### INSTALLATION LOCATIONS

**MAINTAIN GOOD VENTILATION**
Ventilation slots and holes are provided on this unit. Place the unit on a hard and level surface and locate at least 10 cm (4 inches) from walls to insure proper ventilation. When putting the unit on the system rack, take a space between the unit and the back of the rack.

**UNSUITABLE LOCATIONS**
Avoid shaky places or hot-springs areas where hydrogen sulfide and acidic ions are likely to be generated.

**PLACES WITH HIGH HUMIDITY AND DUST**
Do not place the unit locations with high humidity and dust. They can cause extensive damage. Avoid places where unit is likely to be exposed to oily fumes and vapours.

**PLACES NOT LIKELY TO BE EXTREMELY HOT**
Places exposed to direct sunlight, or near heating appliances can attain extremely high temperatures, which may deform the cabinet, or can become a prime cause of damage.

**PLACE THE UNIT ON A HORIZONTAL LEVEL**
The unit is likely to be affected if it is placed in slanted conditions or in unstable places.

**PROTECT AGAINST DEW FORMATION**
In extremely cold regions, if the unit is moved quickly from an extremely cold place to warmer one, dew is likely to be formed. If dew is formed, printing is not possible.

**OPERATING AMBIENT TEMPERATURE RANGE**
The operating ambient temperature range is 41°F - 104°F (5°C to 40°C), and humidity of 20 - 80%. When using the unit on the system rack, be sure to keep this ambient temperature inside the rack.

### FOR LONG OPERATING LIFE

**UNSUITABLE MATERIALS FOR THE COLOUR VIDEO COPY PROCESSOR**
Coat flaking and deformation are likely to occur if the unit is wiped with chemical dusters, benzine, thinner or any other solvent, if rubber or PVC items are left in contact with the unit for extended duration, or if the unit is sprayed with insecticide.

**CARE OF THE CABINET**
Unplug and clean with a soft cloth slightly moistened with a mild soap and water solution. Allow to dry completely before operating. Never use petroleum base solutions or abrasive cleaners.

**HEAD ABRASION**
The thermal head, like the video head, wears out. When it is abraded, it becomes hard to print out fine details of the picture. In such a case, it is necessary to replace the thermal head. Consult with the sales dealer for replacing the head.

**CONNECTING DEVICES**
Read thoroughly “Operating Precautions” of the instruction booklets for the devices connected with the Colour Video Copy Processor.
The power cord must be disconnected after printing is over.

**CAUTION ON RELOCATING**
When transporting this unit, make sure it is not likely to be subjected to impacts. They can be a prime cause for damage. Further, make sure to disconnect the power cord from the power outlet, and the cables from the connected devices.

### SAFETY CHECKS

**Periods:** According to the recommendations of the manufacturer of the medical device.  
**Scope:**
- a) **Visual inspection**
  - Housing, leads, controls, displays, labels/ markings, accessories, operation manual.  
- b) **Function test**
  - Testing of functions (according to operation manual) as well as compatibility and usability of device and accessories.  
- c) **Electrical test**
  - Testing of electrical safety of the system according to EN60601-1.  

High humidity or dust:
Avoid locations with high humidity and dust in order to avoid malfunctioning of the device. Also avoid locations subject to corrosive gasses and smoke.

**Heat**
Direct sunlight, heaters or other heat sources may deform the housing and subsequently cause malfunctioning.
This product is to be employed with medical equipment, just for reference purpose, not for medical diagnostic purpose.
SPECIAL FEATURES

AVAILABLE IN VARIOUS MEDICAL FIELDS, INCLUDING ENDOSCOPY DIAGNOSIS
3 kinds of colouring characteristics (gamma curve) are employed, which are the best for medical diagnostic devices, including endoscope requiring precise images and ultrasound diagnostic equipment etc. The colour is reproducible for each diagnostic equipment with easy operation. Each gamma curve is adjustable for each user flexibly.

2 PRINT SIZES ARE AVAILABLE ACCORDING TO THE PURPOSE
2 printing sizes, L size (max.110 x 160 mm) and S size (max.110 x 105 mm), are selectable.

MULTI PRINT FUNCTION BY THE CAPACIOUS FRAME MEMORY
As this unit has 3 frame memories, it can store an image during its printing. So the time of diagnosis will be shortened remarkably.

HIGH SPEED PRINTING
Printing speed is approx. 12 seconds (in S size print). Using a rollpaper shortens the time for installing and removing.

LARGE CAPACITY OF PRINTING
Maximum number of printing (S size) is 200 printings per a roll paper. The large capacity of rollpaper printing reduces a time of exchanges.

POSSIBLE PRINTING IN HIGH QUALITY
High quality print is available in sublimation dye thermal method which is superior in repeatability of images. It also employs 256 gradients and about 16,700,000 colours in each YMC.

325 PPI HIGH RESOLUTION
325 PPI (Pixel Per Inch) high resolution clears the image data. Precise illustrations and photo images can be printed sharply.

MULTI PRINT FOR VARIOUS DEMANDINGS
2, 4, and 16 images of multi print are available. Several multi print modes are selectable according to demanding.

UNIQUE COLOUR IMAGE CONTROL SYSTEM WITH THE IC CHIP BUILT IN INK SHEET ROLLS
By setting the supplied IC chip to ink cassette, the remaining of ink sheet can be displayed. It also controls the colours of the printing images.

WIDE COMPATIBILITY WITH A VARIETY OF INTERFACE AND SYSTEMS
(1) Input and output control signals from Rear remote interfaces
(2) Fixing function to internal sync. signal avoiding the loop phenomena of sync. signal
(3) Stroboscope sync. function responding to fundus camera system
(4) Image adjusting function such as contrast, brightness, depth etc. of printing image
(5) Capable of storing 3 kinds of setting and adjustment according to each using condition.
Take the unit out of the box by the following procedures. Make sure to check the contents.

1. Open the top of the box.

2. Remove the cushion with contents.
   Be careful not to drop the contents.

3. Take the unit out of the box carefully.
   Make sure to keep the unit horizontally.

4. Unwrap the packing.

■ CONTENTS
Make sure to check the supplied contents on the cushion.

- Ink cassette
- Wired remote control
- Operation manual
- Power cord
- Attachments for thermal paper
- Spacers (4)
- Screws (4)
1. **POWER BUTTON (INDICATOR)**
   Press to turn on power. Press again to turn off power. When the power is turned on, the indicator illuminates.

2. **ALARM INDICATOR**
   When this unit is overheated, this indicator goes on and off. When other error occurs, it lights up.

3. **SHEET ERROR INDICATOR**
   When an error concerning ink sheet occurs, this indicator lights up.

4. **PAPER ERROR INDICATOR**
   When an error concerning print paper occurs, this indicator lights up.

5. **INPUT SIGNAL INDICATOR**
   While S-Video signal is selected for input signal, this lamp lights up. When other signal is selected, it goes off.

6. **MENU BUTTON**
   Press for color adjustment. The item will be switched in order of:
   - SELECT COLOR/B&W → BRT → CONT → R-SUB → G-SUB → B-SUB → CENTER(+) → CANCEL(+) → SET(+) → SELECT COLOR/B&W.
   - (When selecting B&W, R-SUB, G-SUB, B-SUB change to Y-SUB, M-SUB, C-SUB.)
   - To go back to the normal screen, press PLUS(+) button while SET(+) is selected. See page 32.

7. **MINUS (-) BUTTON**
   Press to decrease the value of each setting item. To set the value, select SET(+) in the MENU and press PLUS(+) button.

8. **PLUS (+) BUTTON**
   Press to increase the value of each setting item. To set the value, select SET(+) in the MENU and press this button.

9. **MONITOR BUTTON**
   Switches the display on the monitor. When this button is pressed, the picture on the monitor screen switches between the picture of the input signal (source image) and the memorized image. When pressing MEMORY button while holding this button, print paper will be fed and cut automatically, and the mechanism will be initialized. Make sure to press MONITOR button first, or a new image will be memorized.

10. **MEMORY BUTTON**
    Press to memorize the image to be printed. When signal is not inputted, memory is not available.

11. **PRINT BUTTON**
    Press to print the image memorized by the MEMORY button. The image on the monitor screen switches to the source image when printing starts. When image is not memorized, printing is not available.

12. **PRINT OUTLET**
    The printed paper comes out here. Do not put any objects in front of the outlet.

13. **OPEN BUTTON**
    Press to slide out the printing mechanism. Make sure to unlock PRINTING UNIT LOCK SWITCH. When it is not working, turn off the power once. Then try to press this button again. Open the mechanism to load paper and ink cassette or to clear a paper jam.

14. **TRAY**
    Holds the printed paper which was come out from the print outlet. Lift the knob to pull out the tray. Make sure to pull it out before using this unit.

15. **REMOTE TERMINAL**
    Connects the remote control supplied.

16. **PRINTING UNIT LOCK SWITCH**
    Locks the printing unit. Shift the switch to the left (LOCK side) to lock and to the right (UNLOCK side) to unlock. This unit is locked when shipping. When transporting this unit, make sure to lock the unit.
REMOTE TERMINAL 2 (MINI DIN 8 PIN)
Memorizing images and printing are available by the remote signal inputted through this terminal. It is necessary to make a circuit for remote control to use the function. See page 27.

REMOTE TERMINAL 1 (STEREO JACK)
Memorizing images is available by the remote signal inputted through this terminal. It is necessary to make a circuit for remote control to use the function. See page 26.

S-VIDEO INPUT/OUTPUT TERMINAL
Use these terminals to connect to S-VIDEO signal equipment. See pages 11.

VIDEO INPUT/OUTPUT TERMINAL
Use these terminals to connect this unit to VIDEO signal equipment. See page 11.

AC LINE SOCKET
Connects to the provided power cord. Insert the cord firmly.

Potential equalization connector
This is used to equalize the potential of the equipment connected to the unit. For details, refer to the installation instruction of the equipment to be connected.
**COLOR ADJUST BUTTON**
Press to display the COLOR ADJUST menu. See page 32.

**FIELD/FRAME BUTTON**
Press to switch FRAME and FIELD mode of input signals. The selected mode is displayed on the monitor screen. FRAME is good for high quality printing of still images, and FIELD is good for printing fast movement images. See page 17.

**DISPLAY BUTTON**
Press to display the set condition on the monitor screen. Press again to switch off the display.

**PRINT QUANTITY ▲, ▼ BUTTONS**
Use to set the number of copies to be printed. The set number of copies is displayed on the monitor screen. Press ▲ to increase the number and ▼ to decrease the number. When pressing ▲ or ▼ button during printing, the counter becomes “1” and continuous printing is cancelled. It also cancels the reserved printing. See page 22.

**SET BUTTON**
Press to go to SAVE PRG. Repress to memorize the values and exit the MENU mode. See pages 28-29.

**STOP BUTTONS**
Press to cancel the printing process and start mechanical initializing. When pressing these buttons during displaying MAIN MENU, SERVICE MENU will be displayed.

**MEMORY PAGE BUTTON**
Use to select the image memorized. The memory page is switched every time this button is pressed. The selected memory page mark illuminates.

**PRINT BUTTON**
Press to print the image memorized by the MEMORY button.

**PROGRAM BUTTON**
Press the PROG. button to select between 3 types of user presets. Functions previously set with the MENU can be stored into 1 of 3 memories and recalled. Programs cannot be changed during printing. It may take longer to change the program.

**▲, ▼, ◀, ▶ BUTTONS**
Use to set the MENU display. Values are increased/decreased and the cursor position is changed with these four buttons. These buttons are also used to select one of memorized images. See page 30 and 37.

**MENU BUTTON**
Press to display MAIN MENU used for various settings. See pages 28-29.

**CLEAR BUTTONS**
Press to eliminate all or a part of memorized images.

**MONITOR BUTTON**
Press to switch the image of the input signal and the memorized image.

**MEMORY BUTTON**
Use to memorize the image to be printed. The memorized image is displayed on the monitor screen for one second, then the image of the input signal is displayed.
CONNECTIONS

The functions of this unit can be set by the menu screens displayed on the monitor.
- Connection with a monitor
- Connection with VIDEO/S-VIDEO signal equipment

Connect this unit with a monitor to check the images to be printed and the images stored in memory. The following example shows the connection with a video signal and S-video signal equipment. Connect with the necessary signal equipment.

Make sure to turn off the power of the unit and connecting equipment before connection.

CONNECTION WITH A MONITOR

Make sure to turn off the power of the unit and connecting equipment before connection.

(EXAMPLE)

CONNECTION WITH VIDEO OR S-VIDEO SIGNAL EQUIPMENT

Make sure to turn off the power before setting.
BEFORE OPERATION

Before printing,
1. Unlock the printing unit. (See below)
2. Install the print paper and ink cassette. (pages 12-15)

PAPER SHEET SET

When using this unit for printing, make sure to use the following types of paper sheet and ink sheet set.

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<th>PAPER SHEET SET</th>
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<tbody>
<tr>
<td>Product name</td>
</tr>
<tr>
<td>CK900S</td>
</tr>
<tr>
<td>CK900L</td>
</tr>
<tr>
<td>CK900S4P</td>
</tr>
<tr>
<td>CK900L4P</td>
</tr>
<tr>
<td>CK900S4P(HX)EU</td>
</tr>
<tr>
<td>CK900L4P(HX)EU</td>
</tr>
</tbody>
</table>

THERMAL PAPER

<table>
<thead>
<tr>
<th>THERMAL PAPER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
</tr>
<tr>
<td>K6SHM-CE</td>
</tr>
</tbody>
</table>

PAPER INK SHEET CASSETTE

<table>
<thead>
<tr>
<th>PAPER INK SHEET CASSETTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
</tr>
<tr>
<td>PKC900S</td>
</tr>
<tr>
<td>PKC900L</td>
</tr>
</tbody>
</table>

UNLOCK THE PRINTING UNIT

RELEASING THE PRINTING UNIT LOCK

1. Press down the knob to pull out the tray.

2. Shift the printing unit lock switch to the right (UNLOCK). (See page 8.)

INSTALLATION OF PRINT PAPER

When using the thermal paper, prepare the following steps first.

1. Set the supplied paper attachments to both sides of the thermal paper.
   SET THE ATTACHMENT WITH GEAR ON THE LEFT SIDE.
   MAKE SURE TO SET THEM CORRECTLY.

2. Pull out the thermal paper about 20 cm and cut it.
   REMOVE THE PART WITH SEAL PASTE, DUST AND FINGERTIPS.

3. Cut the both corners of the paper.
   INSTALLATION FOR THERMAL PAPER IS COMPLETED.
### INSTALLATION OF PRINT PAPER

Do not remove the seal on the print paper yet. When using thermal paper, remove the seal as shown on the previous page.

1. **Insert the print paper roller with gear on the left.**
   - Press the folder ① as shown right, and set the print paper roller.

2. **Set the other side of roller without gear.**

3. **Remove the seal, and insert the edge of the print paper right below the roller cover with arrow marks towards the front panel.**
   - Make sure to insert the paper straight.

4. **Feed the print paper through the paper outlet with your hand.**

5. **Pull the both side of the print paper to eliminate slack.**
BEFORE OPERATION

PRECAUTIONS ON SETTING THERMAL PAPER

When setting the thermal paper, observe the following precautions to prevent paper jam.

- Do not use defective paper.
  Do not use the bent or wrinkled paper.

- Adjust the paper position correctly.
  When the paper is fed out skewed from the print exit, adjust the paper position so that it is fed out straight.

- Do not slack the roll paper.
  Set the paper tightly to remove any slack.

- Make the paper side even.
  If the side of the print paper is uneven or the core is sticking out, the amount of paper feeding after printing may vary.
  When the side of paper is uneven or the core is sticking out, install the print paper after making the paper side even.

- Other cautions
  - Keep the high-density paper away from fingerprint, dust or moisture when storing it.
  - Do not touch the rubber roller. Do not stain or damage the roller surface.
  - Do not touch the thermal head (located inside the unit). When printing, the thermal head is heated to high temperature.
  - Do not touch the cutter blade.

INSTALLATION OF INK SHEET

INSTALLING THE INK SHEET

Load the ink sheet roll to the ink cassette before inserting the ink cassette into the printer.

1. Put the ink sheet rollers with flat tops into the holes of ink cassette.
   Put the white roller (rolled with ink sheet) to the ink cassette first.
   Then, put the coloured roller (without ink sheet) to the ink cassette.

2. Put the other sides of rollers. Set IC at this time.
   IC chip with the IC holder is attached to the ink sheet.
   Set the IC holder to the ink cassette as shown right.
1. Push the printing unit until it is locked into place.

2. After plugging the power cord, press POWER button on the front panel.

3. After the set conditions are displayed on the monitor, press MEMORY button about 1 second with holding MONITOR button on the front panel.

   The print paper is automatically cut after feeding about 10 cm (4 inches).

4. Repeat the above step 3 once or twice.

   Fingerprints and dust can be removed by feeding the print paper. The printing unit is initialized.
THE INSTALLATION OF PRINT PAPER AND INK CASSETTE IS COMPLETED.

NOTE
An IC is built in the ink sheet. This is the IC chip, not a battery. This IC can be thrown away as normal waste.

NOTE
If the power is turned on and AUTO FEED&CUT on SYSTEM SETUP menu is set to ON, “SET PAPER” on the monitor disappears when print paper is inserted under the roller. (For AUTO FEED&CUT setting, refer to page 38.) After inserting ink sheet and closing the printing mechanism, the print paper is automatically fed and cut twice.

NOTE
Take the print paper one by one after completing printing. Pull out the tray completely when using it. If you fail to do so, paper jamming may occur. Put the tray back when finishing printing.

USAGE AND KEEPING OF PAPER SHEET SET

BEFORE PRINTING
• Fingerprints or dust on the paper’s surface may degrade print quality and cause paper jams. Immediately after the paper is replaced, 2 images may be printed with a blank part due to hand’s dust or oil. Refer to Pages 12-13.
• When print paper is rapidly transferred from a cool place to a hot place, vapour or dew will be generated on the paper’s surface causing paper jams or degraded print quality. Leave the print paper in the room to stabilize its temperature before using it.
• When print paper and ink sheet run out during printing, the printing operation stops and the error messages such as “CHANGE PAPER” and “CHANGE INK” is displayed on the monitor. Set new ink sheet or print paper. Refer to Pages 12-15.

AFTER PRINTING
• When the printed paper is touched by a wet hand, the print may be discoloured.
• Fading may occur if the print-face is exposed to organic chemical agents which may affect print paper (e.g. alcohol, ester, ketone based).
• Fading will be accelerated upon contact with PVC-based materials (e.g. adhesive tapes, rubber erasers, etc.).
• Avoid storing prints in direct sunlight or places with high humidity.

STORAGE
• Leaving the print paper in contact with PVC-based materials causes color of print paper to come off and to be stained.
• Never store print paper in places that are close to heater, hot, humid or dusty.

Keep print paper in a place where:
Temperature : 5°C - 30 °C
Humidity : 20 % - 60 %RH
BEFORE PRINTING

SELECTING FIELD/FRAME
Press FIELD/FRAME button on the remote control unit to select “FIELD” or “FRAME”.
• Select “FRAME” for a high resolution still image printing.
  Select “FIELD” for a picture of quickly moving objects.
• When “FIELD” is selected, the print image will be lower in resolution.
  The selected mode is displayed on the monitor screen.
• A video picture is normally composed of two slightly lower resolution images (FIELD images) to form a single image (FRAME image).

SELECTING INPUT SIGNAL
• Select VIDEO or S-VIDEO according to the input signal.
• The input signal can be set on the menu displayed on the monitor screen.
• Unless the input signal is changed, it is not necessary to select the input signal every time.

1 Press MENU button.
   MAIN MENU is displayed.

2 Press ▲, ▼ button to select “INPUT”.

3 Press ◀, ▶ button to select “VIDEO” or “S-VIDEO”.

4 Press SET button.
   “SAVE PRG 1/2/3/CANCEL” is selected.
   This menu lets you select a program memory (1-3) to store your new settings.
5. Press ▼, ▶ button to select one of the program memory (1-3) to memorize the setting.
   The program is replaced. In case of keeping the stored program, do not select the user memory number in which the setting is stored.

6. Press SET button.
   The source image is displayed.

The selecting of input signal is completed.

SELECTING PRINT SIZE

- “AUTO” is selected for initial setting. “S” is selected when THERMAL is set to “ON”.
- Select “AUTO” or “S” according to the print size.
  AUTO : Selects print size automatically according to the installed ink sheet.
  S : Selects S size regardless of the installed ink sheet.
When selecting THERMAL : ON,
  L : Prints with L size.
  S : Prints with S size.
- The print size can be set on the menu displayed on the monitor screen.
- Unless the ink sheet size is changed, it is not necessary to select the print size every time.

1. Press MENU button and MAIN MENU is displayed.

2. Press ▲, ▼ button to select “LAYOUT”.

3. Press ▶ button.
   - LAYOUT is displayed.
   - Normally, “MODE” is selected when opening LAYOUT. When other item is selected, press ▲ or ▼ button to select “MODE”.

4. Press ▼, ▶ button to select “AUTO” or “S”.
   (Select “L” or “S” when THERMAL is set to ON.)
   - Select “AUTO” for normal setting. Select “S” to print S size with L size ink sheet.
   - When printing with thermal paper, L or S size printing is available by selecting “L” or “S”.
5. Press SET button.
   - MAIN MENU is displayed.
   - “SAVE PRG 1/2/3/CANCEL” is selected.
   - This menu lets you select a program memory (1 - 3) to store your new settings.

6. Press ◀, ▶ button to select one of the program memory (1-3) to memorize the setting.
   The program is replaced. In case of keeping the stored program, do not select the memory number in which the setting is stored.
   When “CANCEL” is selected, the settings are not memorized.

7. Press SET button.
   The source image is displayed.

The print size setting is completed.

---

MEMORY PRINT

In the single image mode, this unit has 3 FRAMES of image memory and the following functions are available.

- Each time the FIELD/FRAME button is pressed, the display changes to show the Field or Frame mode.
- Frames are shown as [ABC]FRAME, and since one Frame consists of two Fields, the Frame letter is shown (in green) along with the Field display as “1” or “2” (in green) as [ABC]FIELD1/[ABC]FIELD2.
- Press MEMORY PAGE button to advance the Memory Page to the next Field or Frame. The selected page number is shown in green. The memory page in which the next image will be memorized is shown in yellow. If the selected page number and the next memory page are the same, the number will be shown in yellow.
- The image will be stored in the selected memory page when MEMORY button is pressed.
- When pressing MONITOR button, the image of memory page which is currently selected is displayed on the monitor. When displaying a memory page, “MEMORY” is shown on the monitor. When displaying the image from the connected equipment, “LIVE” is shown.
- When pressing MEMORY PAGE button, the selected memory page is displayed.
- An image can be stored into memory while printing, but not in the memory currently being printed.
MEMORIZING AND PRINTING AN IMAGE

1. Display the image which you wish to print.
   • The memory page can be changed by pressing MEMORY PAGE button on the remove control unit.

2. Press MEMORY button.
   • The selected page is shown in yellow.
   • When pressing MONITOR button to show “MEMORY” on monitor display, the image on the selected memory page will be displayed on monitor.

3. Press PRINT button.
   • The image displayed on the monitor will be printed.
   • The memory page during print stand-by is shown as “-”, and it goes on and off during printing.

NOTE
When selecting OFF(PRNs SELECT) in MULTI, 4 memory pages are displayed on the monitor.
However, only selecting page can be printed.

IMAGE MEMORIZING WITH PAGE INCREMENT SET TO PAGE

When INCREMENT is set to “PAGE” (automatic memory page advance system), the followings are the memory operations.

• Every time pressing MEMORY button, the memory page is switched in order of A→B→C, and image will be memorized in it.
• To memorize an image on a memory page you selected, press MEMORY PAGE button first to select the memory page. Then, press MEMORY button to memorize the image.
• When selecting OFF(PRNs SELECT) in MULTI, the memory page is switched in order of A→B→C→D→A→B... by pressing MEMORY button.
   For FIELD, the memory page is switched in order of A1→B1→C1→D1→A2→B2→C2→D2→A1→B1... by pressing MEMORY button.
### NUMBER OF MEMORY PAGES

As this unit has 1280 pixel x 600 lines x 3 frames of memory, the following memory operations are available.

#### MODE : DIFF
(Multi printing the different images)

<table>
<thead>
<tr>
<th>MULTI</th>
<th>FRAME</th>
<th>FIELD</th>
<th>PRINT EXAMPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1 page</td>
<td>2 pages</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>1 page</td>
<td>2 pages</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>2 pages</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### MODE : SAME
(Multi printing the same images)

<table>
<thead>
<tr>
<th>MULTI</th>
<th>FRAME</th>
<th>FIELD</th>
<th>PRINT EXAMPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>3 pages</td>
<td>6 pages</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>3 pages</td>
<td>6 pages</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>3 pages</td>
<td>6 pages</td>
<td></td>
</tr>
</tbody>
</table>

#### MODE : PHOTO1
(S size print)

<table>
<thead>
<tr>
<th>MULTI</th>
<th>FRAME</th>
<th>FIELD</th>
<th>PRINT EXAMPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CARD</td>
<td>3 pages</td>
<td>6 pages</td>
<td></td>
</tr>
<tr>
<td>3 x 4</td>
<td>3 pages</td>
<td>6 pages</td>
<td></td>
</tr>
<tr>
<td>5 x 5</td>
<td>3 pages</td>
<td>6 pages</td>
<td></td>
</tr>
<tr>
<td>3 x 35</td>
<td>3 pages</td>
<td>6 pages</td>
<td></td>
</tr>
</tbody>
</table>

#### MULTI : OFF

<table>
<thead>
<tr>
<th>MULTI</th>
<th>FRAME</th>
<th>FIELD</th>
<th>PRINT EXAMPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>3 pages</td>
<td>6 pages</td>
<td></td>
</tr>
<tr>
<td>OFF (PRN SELECT)</td>
<td>4 pages</td>
<td>8 pages</td>
<td></td>
</tr>
</tbody>
</table>

- Because the FIELD mode has half the vertical resolution of the FRAME mode, the printed image may be low in quality.
MULTIPLE COPY OR CONTINUOUS PRINTING

Multiple copies of a memorized image can be made by setting the number of prints to more than one. The print quantity can be set for up to 200 prints or for continuous printing until the paper or ink sheet is used up. Multiple quantity printing can be cancelled if needed.

1 Press PRINT Q’ty ▲,▼ button to set the number of sheets to be printed.
   • The number of prints is displayed on the monitor screen.
   • The number will increase by pressing PRINT Q’ty ▲ and decrease by pressing PRINT Q’ty ▼.
   • The number switches in the order of:
     1 ←→ 2 ←→ 3 ←→ 9 ←→ 10 ←→ 20 ←→ 30 ←→ 40 ←→ 50 ←→ 100 ←→ 200 ←→ C ←→ 1
     When you set to ‘C’, continuous printing will be done until the paper or ink sheet is used up.

2 Press PRINT button.
   • The number of prints you set is printed.
   • During continuous printing (except for selecting “C”), the set number on the monitor will be counted down every time one sheet is printed. When printing is completed, the counter will be reset to the original set number. This will not reset when turning off the power (It will not be reset to “1”)
   • If you wish to stop printing;
     • Press PRINT Q’ty ▲ and ▼ buttons. After printing the current page, the counter will be reset to “1.” Pressing PRINT Q’ty ▲ and ▼ buttons are also available to cancel the reserved printing.
     • If you wish to stop printing without completing the current page, press STOP button. The image will be printed incompletely and come out from the print outlet.

NOTE

• If a blackish image is continuously printed, the internal temperature may rise and cause the unit to switch to a stand-by condition during printing. In this case, an error message “OVER HEAT” will be displayed on the monitor. Wait until the error message goes off. When temperature drops and the message goes off, printing resumes.
PRINTING (SPECIAL)

Various types of printing are available by setting on the menu screen (MAIN MENU and SERVICE MENU).
In this section, some examples of special prints are given.
For each setting, see pages 28-29.

MULTI PRINT

MULTI PRINT is the function which 2, 4 or 16 images can be printed on a sheet.
Use LAYOUT of MAIN MENU for setting. For the setting, refer to pages 32-33. For PHOTO1 setting, refer to “PHOTO PRINTS” on page 25.

MODE : SAME, DIFF

<table>
<thead>
<tr>
<th></th>
<th>2</th>
<th>2S</th>
<th>4</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td>S size prints</td>
<td><img src="image1.png" alt="Diagram" /></td>
<td><img src="image2.png" alt="Diagram" /></td>
<td><img src="image3.png" alt="Diagram" /></td>
<td><img src="image4.png" alt="Diagram" /></td>
</tr>
<tr>
<td>L size prints</td>
<td><img src="image5.png" alt="Diagram" /></td>
<td><img src="image6.png" alt="Diagram" /></td>
<td><img src="image7.png" alt="Diagram" /></td>
<td><img src="image8.png" alt="Diagram" /></td>
</tr>
</tbody>
</table>

- MODE : DIFF
  When setting IMAGES to "2(2S)", 2 images are available to be stored in each FRAME: Page A, or each FIELD1,2: Page A.
- MODE : DIFF
  When setting IMAGES to "4," 4 images are available to be stored each FRAME: Page A, or each FIELD1,2: Page A.
- MODE : DIFF
  When setting IMAGES to "16," memory is not available in FRAME. 16 images are available to be stored in each FIELD1,2 Page A.
- MODE : SAME
  1 image is available to be stored in each FRAME Page A-C or in each FIELD1,2, Page A-C.

NOTE

- When printing 2 images on S size sheet, some characters of the comment will be clipped.
- When printing 2 images on L size sheet, the images may be partially clipped. In this case, adjust the image position by PRN V AREA of LAYOUT2 in SERVICE MENU so that the image moves to the proper position, or use 2S mode. See pages 33 and 40.
WHEN SETTING TO MODE : DIFF, IMAGES : 4;
Repeat the following procedure to store the set number of images in memory.

1. Press DISPLAY button to display the set condition.

2. Press MONITOR button and select the source image (“LIVE” is displayed on the monitor.) to display the image to be stored.

3. Press MEMORY button to store the image to be printed.
   - For normal setting, when the image is stored, the source image (LIVE image) is displayed after displaying the stored image about 1 second.

4. When selecting the position to store the image, press MEMORY PAGE button to select the memory page.
   - Press \[,\], \+, \- button to determine the position to store the image.
   - The image is stored in the selected memory page.
   - The position number where the image can be stored is indicated in yellow.

WHEN SETTING TO MODE : SAME, IMAGES : 4;
Only one image will be displayed on the monitor screen.

1. Press DISPLAY button to display the set condition.

2. Press MONITOR button and select the source image (“LIVE” is displayed on the monitor.) to display the image to be stored.

3. Press MEMORY button to store the image to be printed.
   - When the image is stored, the source image (LIVE image) is displayed after displaying the stored image about 1 second.
   (When MEM&MONI : OFF in SERVICE MENU)

4. When selecting the memorizing page (A, B, C), press MEMORY PAGE button to select.
   - The position number where the image can be stored is indicated in yellow.
SEPARATE PRINT

- The SEPARATE print is a function to insert a white frame between 2 or more images.
- Use LAYOUT2 of SERVICE MENU for setting. See page 40.

NOTE

The amount of white frame in multi print is different between on the monitor and the printed image.
The image size changes according to the “SIZE” in LAYOUT menu.
The setting just before printing applies to all the multi print images.

PHOTO PRINTS

- PHOTO print is a function to print the images on the photo size (3 x 4 cm, 5 x 5 cm, 3 x 3.5 cm) and CARD size (2 x 1.5 cm).
- CARD size print is suited to stick on a business card.
- Use LAYOUT of MAIN MENU for setting. Refer to page 32 for setting.
- The following prints are available.

MODE: PHOTO1

<table>
<thead>
<tr>
<th></th>
<th>CARD</th>
<th>3 x 4</th>
<th>5 x 5</th>
<th>3 x 3.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>S size prints</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>L size prints</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The image can be stored in memory by sending the remote signal through the external remote terminal on the rear panel. When the MEM&PRN(MEMORY & PRINT) function is set to ON, the image will be printed after being stored in memory.

- Make out the necessary circuit to use this function by referring to the following.

**EXTERNAL REMOTE TERMINAL SIGNAL ALLOCATION (STEREO JACK)**

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ground</td>
<td>Earth</td>
</tr>
<tr>
<td>2</td>
<td>MEMORY</td>
<td>Memory: When the signal becomes “LOW” from “HIGH”, the image is stored in memory. (When the signal has been “LOW” for 15ms or more, the image is stored in memory.) See page 42, 43.</td>
</tr>
<tr>
<td>3</td>
<td>BUSY1</td>
<td>Refer to the BUSY LEVEL setting of REMOTE SET in SERVICE MENU. See page 43.</td>
</tr>
</tbody>
</table>

- When the signal from BUSY terminal is received with TTL level, keep the following.
  \[ |I_{OL}| = 2mA \text{ or less, } |I_{OH}| = 1mA \text{ or less} \]
  \[ |I_{OL}| \text{ means the current flowing into the unit at Low output, } |I_{OH}| \text{ means the current flowing out of the unit at High output.} \]

- Just after completing printing, there is a period that memory signal is not accepted.
EXTERNAL REMOTE TERMINAL 2

The image can be stored in memory and printed by sending the remote signal through the external remote terminal on the rear panel.

- Make out the necessary circuit to use this function by referring to the following.

### EXTERNAL REMOTE TERMINAL SIGNAL ALLOCATION (MINI DIN8PIN)

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ground</td>
<td>Earth</td>
</tr>
<tr>
<td>2</td>
<td>MEMORY</td>
<td>Memory: When the signal becomes “LOW” from “HIGH”, the image is stored in memory. (When the signal has been “LOW” for 15ms or more, the image is stored in memory.) See page 42, 43.</td>
</tr>
<tr>
<td>3</td>
<td>BUSY2</td>
<td>Refer to the BUSY LEVEL setting of REMOTE SET in SERVICE MENU. See page 43.</td>
</tr>
<tr>
<td>4</td>
<td>BUSY1</td>
<td>Refer to the BUSY LEVEL setting of REMOTE SET in SERVICE MENU. See page 43.</td>
</tr>
<tr>
<td>5</td>
<td>PRINT</td>
<td>When the signal becomes “LOW” from “HIGH”, the image is stored in memory. (When the signal has been “LOW” for 15ms or more, the image is stored in memory.)</td>
</tr>
<tr>
<td>6</td>
<td>REMOTE</td>
<td>The same functions as the supplied remote control can be controlled.</td>
</tr>
<tr>
<td>7</td>
<td>Unused</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>DC3V</td>
<td>Power supply for the remote control DC 1mA Max.</td>
</tr>
</tbody>
</table>

- When the signal from BUSY terminal is received with TTL level, keep the following.
  \[ |I_{OL}| = 2\text{mA or less, } |I_{OH}| = 1\text{mA or less} \]
  \[ |I_{OL}| \text{ means the current flowing into the unit at Low output, } |I_{OH}| \text{ means the current flowing out of the unit at High output.} \]
- Just after completing printing, there is a period that memory signal is not accepted.

### PIN NO. 6 REMOTE TERMINAL

By sending the following remote control codes from pin No.6, the same functions as the wired remote control unit supplied can be controlled.

- 01: ◄ button 02: ► button 03: ▼ button 04: ▲ button
- 08: PRINT Q’ty ▲ button 09*
- 0A*: MENU button 0B*: CLEAR button 0C: PRINT Q’ty ▼ button
- 0D*: 0E*: SET button 0F*: STOP button
- 12*: PROGRAM button 13*: PRINT button 15*: FIELD/FRAME button
- 16*: COLOR ADJ button 17*: MEMORY button 18*: DISPLAY button
- 1C*: MEMORY PAGE button 1D*: MONITOR button

In case of the codes with * mark, 5 words are sent.

### TIMING CHART

<table>
<thead>
<tr>
<th>Input signal level</th>
<th>TTL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input timing</td>
<td>1 word 38.4 ms (reference)</td>
</tr>
</tbody>
</table>

\[ T_1 \geq 0.4\text{ms} \]
\[ 1.5\text{ms} < T_2 < 2\text{ms} \]
\[ 2\text{ms} < T_3 < 4.2\text{ms} \]
\[ 13\text{ms} < T_4 < 90\text{ms} \]

(EXAMPLE) Print code

\[ = 13 = 0 1 0 0 1 1 \]
SETTING THE FUNCTIONS (MENU CHART)

MONITOR DISPLAY CHART

OPERATION

- Select MENU with ▲, ▼ button.
- Press ◀, ▶ button to change the value, select the mode or switch the item.

SOURCE IMAGE

- A
- B

DISPLAY

- A
- B

Set conditions display

- PRG. 1
- Q'ty 1

To Set Conditions display

- VIDEO/S-VIDEO
- COLOR ADJ
- LAYOUT
- PRINT
- COMMENT
- MEMORY POSITION
- SAVE PRG 1/2/3/CANCEL

*2 When selecting MODE:DIFF, IMAGES 2/2S/4/16 are available.
When selecting MODE:PHOTO1, IMAGES card/3*4/5*5/3*3.5 are available.

Front panel

- POWER
- ON

Set conditions display

- VIDEO/S-VIDEO
- COLOR ADJ
- LAYOUT
- PRINT
- COMMENT
- MEMORY POSITION
- SAVE PRG 1/2/3/CANCEL

Main MENU display

- INPUT
- VIDEO/S-VIDEO
- COLOR ADJ
- LAYOUT
- PRINT
- COMMENT
- MEMORY POSITION
- SAVE PRG 1/2/3/CANCEL

Comment making display

- OFF/ON
- ADJ
- DATA

Memory and Position setting display

- LINE OFF/ON
- H-POSI 0
- V-POSI 0

Stop

- FRONT PANEL
- PRG. 1
- Q'ty 1

Source image

- A

COLOR ADJUSTMENT DISPLAY

- COLOR ADJ
- SELECT
- COLOR/B&W
- BRT : 0
- CONT : 0
- R-SUB : 0
- G-SUB : 0
- B-SUB : 0
- CENTER [k]
- CANCEL [k]

Layout setting display

- LAYOUT
- AUTO
- S
- MULTI OFF/OFF/PRN SELECT/OFF
- MODE OFF/ON
- S/W/M/N/USER
- SIZE OFF/ON
- L/S is displayed when selecting THERMAL : ON
- Displays only when MULTI : ON *2
- 2S is not displayed when selecting THERMAL : ON
- Displays only when selecting SIZE : USER

Print setting display

- PRINT
- APT S/N/H1/H2
- DIR NOR/REV
- MIRROR OFF/ON
- PRN SPEED FAST/NORMAL
- Only NORMAL is available when selecting IMAGES:2S or using CK900S4P(HX)(EU) or CK900L4P(HX)(EU).
- Only FAST is available when selecting THERMAL : ON.

*1 When going back to MAIN MENU or SERVICE MENU without saving the setting, press MENU button.

*2 When selecting MODE:DIFF, IMAGES 2/2S/4/16 are available.
When selecting MODE:PHOTO1, IMAGES card/3*4/5*5/3*3.5 are available.
System setting display

- SYSTEM SETUP:
  - INCREMENT: OFF/PART/PAGE
  - BUZZER: OFF/T1/T2
  - REMAINING C/Y: OFF/BY/BYP
  - REMAINING SCREEN: OFF/ON
  - ERROR SCREEN: OFF/ON
  - AUTO FEED/CUT: OFF/ON
  - THERMAL: OFF/ON
  - PAPER HOLD: OFF/ON
  - INIT PROC: ALL/MAN/SERVICE
  - INITIALIZE: OFF/GO[SET]

- Does not display when selecting THERMAL: ON
- Only OFF is available when selecting THERMAL: ON
- AUTO CUT OFF/ON is displayed when selecting THERMAL: ON

Gamma level setting display

- GAMMA ADJ: INIT [CLEAR]
  - COLOR: ALL/EACH
  - HI: 0
  - MID: 0
  - LOW: 0
  - POINT: 64 128 192

Layout setting display 2

- LAYOUT2:
  - PRN V AREA (L2 ONLY): 0(-10~10)
  - SEPARATE: OFF/ON
  - MARGIN CUT: OFF/ON

Input signal setting display

- INPUT:
  - FIELD: NOR/REV
  - APC: OFF/ON
  - AGC: OFF/ON
  - DCF: OFF/ON

Output signal setting display

- OUTPUT:
  - MONI R-SUB: 0
  - MONI B-SUB: 0
  - MEMORY SYNC: EXT/INT

Button function setting display

- KEY LOCK: OFF/ON
- MEM&P/PRN: OFF/ON/R1/R2
- MEMASTOP: OFF/PART/PAGE
- MEMAMONI: OFF/ON
- KEEP MONI: OFF/ON
- AUTO CLEAR: OFF/MEM/AFTER PRN
- CLEAR KEY: OFF/PART/PAGE/ALL

Remote signal setting display

- REMOTE SET:
  - BUSY LEVEL: LOW/HIGH
  - BUSY/1.2 SELECT: PRINTING
  - MECHAN ERR: OFF/1/2/162
  - MEDIA ERR: OFF/1/2/162
  - MEMORY STOP: OFF/1/2/162
  - STROBE 1V: OFF/1/2/162
  - REMAINING: OFF/1/2/162

When either one of them is set to OFF, the other is available for setting.

Does not display when selecting B&W in COLOR ADJ in MAIN MENU.

COLOR is not displayed when selecting THERMAL: ON

AUTO CUT OFF/ON is displayed when selecting THERMAL: ON

Only OFF is available when selecting THERMAL: ON

Only OFF is available when selecting THERMAL: ON

When selecting THERMAL: ON

Color is not displayed when selecting COLOR: EACH

Analog colour adjustment display

- ANALOG COLOR ADJ:
  - INPUT: COLOR/B&W
  - BRT: 0
  - CONT: 0
  - R-SUB: 0
  - G-SUB: 0
  - B-SUB: 0
  - COLOR: 0
  - APT: 0

SERVICE MENU display

- SERVICE MENU:
  - SYSTEM: OFF/ON
  - GAMMA ADJ: OFF/ON
  - ANALOG COLOR ADJ: OFF/ON
  - INPUT: OFF/ON
  - OUTPUT: OFF/ON
  - KEY SET: OFF/ON
  - SAVE PRG: 1/2/3/CANCEL

MENU

- SET:
  - KEY SET: OFF/ON
  - MEM&P/PRN: OFF/ON/R1/R2
  - MEMASTOP: OFF/PART/PAGE
  - MEMAMONI: OFF/ON
  - KEEP MONI: OFF/ON
  - AUTO CLEAR: OFF/MEM/AFTER PRN
  - CLEAR KEY: OFF/PART/PAGE/ALL

Previous error display

- PREVIOUS ERROR:
  - NO ERROR
  - NO ERROR

Buttons function display

- SERVICE MENU:
  - SET:
    - OFF/ON
  - BRIGHT:
    - OFF/ON
  - CONTRAST:
    - OFF/ON
  - THERMAL:
    - OFF/ON
  - PAPER HOLD:
    - OFF/ON
  - AUTO FEED/CUT:
    - OFF/ON
  - REMAINQ:
    - OFF/ON
  - INIT PROC:
    - ALL/MAN/SERVICE
  - INITIALIZE:
    - OFF/GO[SET]

Features

- PREPARATION:
  - OTHERS:
    - TROUBLE-SHOOTING:
      - ADJUSTMENTS:
        - PRINTING:
          - PRECAUTIONS:
            - CONNECTIONS:
              - p41
              - p37
              - p40
              - p39
              - p40

- SERVICE MENU display
  - Displayed in bold:
    - GAMMA ADJ: INIT [CLEAR]
    - COLOR: ALL/EACH
    - HI: 0
    - MID: 0
    - LOW: 0
    - POINT: 64 128 192

- Layout setting display 2
  - LAYOUT2:
    - PRN V AREA (L2 ONLY): 0(-10~10)
    - SEPARATE: OFF/ON
    - MARGIN CUT: OFF/ON

- Input signal setting display
  - INPUT:
    - FIELD: NOR/REV
    - APC: OFF/ON
    - AGC: OFF/ON
    - DCF: OFF/ON

- Output signal setting display
  - OUTPUT:
    - MONI R-SUB: 0
    - MONI B-SUB: 0
    - MEMORY SYNC: EXT/INT

- Button function setting display
  - KEY SET:
    - OFF/ON
  - MEM&P/PRN:
    - OFF/ON/R1/R2
  - MEMASTOP:
    - OFF/PART/PAGE
  - MEMAMONI:
    - OFF/ON
  - KEEP MONI:
    - OFF/ON
  - AUTO CLEAR:
    - OFF/MEM/AFTER PRN
  - CLEAR KEY:
    - OFF/PART/PAGE/ALL

- Remote signal setting display
  - REMOTE SET:
    - BUSY LEVEL: LOW/HIGH
    - BUSY/1.2 SELECT:
      - PRINTING
    - MECHAN ERR:
      - OFF/1/2/162
    - MEDIA ERR:
      - OFF/1/2/162
    - MEMORY STOP:
      - OFF/1/2/162
    - STROBE 1V:
      - OFF/1/2/162
    - REMAINING:
      - OFF/1/2/162

When either one of them is set to OFF, the other is available for setting.

Does not display when selecting B&W in COLOR ADJ in MAIN MENU.

COLOR is not displayed when selecting THERMAL: ON

AUTO CUT OFF/ON is displayed when selecting THERMAL: ON

Only OFF is available when selecting THERMAL: ON

Only OFF is available when selecting THERMAL: ON

When selecting THERMAL: ON

Color is not displayed when selecting COLOR: EACH

Analog colour adjustment display

- ANALOG COLOR ADJ:
  - INPUT: COLOR/B&W
  - BRT: 0
  - CONT: 0
  - R-SUB: 0
  - G-SUB: 0
  - B-SUB: 0
  - COLOR: 0
  - APT: 0

SERVICE MENU display

- SERVICE MENU:
  - SYSTEM: OFF/ON
  - GAMMA ADJ: OFF/ON
  - ANALOG COLOR ADJ: OFF/ON
  - INPUT: OFF/ON
  - OUTPUT: OFF/ON
  - KEY SET: OFF/ON
  - SAVE PRG: 1/2/3/CANCEL

MENU

- SET:
  - OFF/ON
  - BRIGHT:
    - OFF/ON
  - CONTRAST:
    - OFF/ON
  - THERMAL:
    - OFF/ON
  - PAPER HOLD:
    - OFF/ON
  - AUTO FEED/CUT:
    - OFF/ON
  - REMAINQ:
    - OFF/ON
  - INIT PROC:
    - ALL/MAN/SERVICE
  - INITIALIZE:
    - OFF/GO[SET]
MAIN MENU ITEMS

MAIN MENU is used to open sub-menus. The functions are set with the following 6 menus. The settings can be saved by SAVE PRG.

- **INPUT** Selects the input signal through the terminal on the rear panel
- **VIDEO** Signal from video signal input terminal
- **S-VIDEO** Signal from S-video signal input terminal
- **COLOR ADJ** Adjusts colour of printing image
- **LAYOUT** Adjusts the image layout setting
- **PRINT** Selects image outline, selects print direction, mirror print (left/right inverted) and print speed
- **COMMENT** Making a comment
- **MEMORY POSITION** Selects print position
- **SAVE PRG** Stores the above settings in 1 of 3 user memories

OPERATING MAIN MENU

Use buttons on the remote control unit to display MAIN MENU and select and set functions.

1. Press MENU button to display MAIN MENU.

2. Select your desired item by pressing ▲ or ▼.

3. Press ▶ button to open a sub menu.

4. Select an item you wish to adjust by pressing ▲ or ▼.
5. Press ◀ or ▶ button to select an item or change value.
   If you press MENU button, the settings will be canceled and MAIN MENU is displayed.

6. Press SET button.
   “SAVE PRG 1/2/3/CANCEL” is displayed.
   This menu lets you select a program memory (1 - 3) to store your new settings.

7. Press ◀ or ▶ button to select the program memory numbers of 1, 2 or 3 to store the setting.
   The program is replaced. In case of keeping the stored program, do not select the
   program memory number in which the setting is stored.
   If you wish to cancel the setting, select CANCEL and press SET button.

8. Press SET button.
   When selecting PRG1 to set, “1” is chosen. When memorizing in a different program
   memory number, select the number of the program.

   • As the program is replaced, it is recommended not to choose the program number
     which has been selected in the step [7]
   • The memorized program will be selected by pressing PROG button, and the image
     which follows each setting is displayed. However, you cannot change the setting
     of selected program during printing. You can store only 1 kind of program set in
     COMMENT menu. The setting values of TOP, BOTTOM, LEFT, RIGHT in LAYOUT
     menu can be memorized in each 2, 2S, 4, 16 of IMAGES.
   • The image will be printed according to the selected memory program.

   NOTE
   The settings can be stored in each program number 1 to 3 in MAIN MENU and SERVICE
   MENU. When selecting the program number in which the setting is stored, the same
   program numbers of MAIN MENU and SERVICE MENU are automatically selected.
   (When selecting program 1 in MAIN MENU, program 1 in SERVICE MENU is also
   selected automatically.)
COLOR ADJ Colour adjustment display

- The colour of the source image and memorized image can be adjusted.
- Open this menu also by pressing the COLOR ADJ button on the remote control unit.

SELECT
Selects colour print or black and white print.

COLOR
Colour print

B&W
Black and white print (The monitor shows in colours.)

BRT (Bright)
Adjusts brightness of the printing image. (The whole image will be adjusted.)

CONT (Contrast)
Adjusts contrast of the printing image. (The image will be adjusted based on the black level.)

R-SUB
Adjusts red-subcontrast of the printing image. Red is added with ▲ and blue is added with ▼.

G-SUB
Adjusts green-subcontrast of the printing image. Green is added with ▲ and pink is added with ▼.

B-SUB
Adjusts blue-subcontrast of the printing image. Blue is added with ▲ and yellow is added with ▼.

CENTER
When pressing ▲, the values of BRT, CONT, R-SUB, G-SUB and B-SUB will be reset to 0.

CANCEL
Cancels the change of COLOR ADJ and resets to the stored setting.

- When selecting B&W, R-SUB, G-SUB and B-SUB change to Y-SUB, M-SUB, C-SUB. When selecting THERMAL: OFF (colour print), each value of Y-SUB, M-SUB and C-SUB is available to adjust the colour of the printed image. When selecting THERMAL: ON (thermal print), only Y-SUB value is available and function as the density of gray colour of the printed image.
- When SELECT is changed from COLOR to B&W, the set values of R-SUB, G-SUB, and B-SUB function as the density of gray colour.

LAYOUT Layout setting display

MODE
Selects the print size. Normally select the ink sheet size which is installed in this unit. (See page 12 for the print paper.)

AUTO
L size ink sheet.
When S size ink sheet is installed, S size is automatically set.

S
S size ink sheet or S size printing with L size ink sheet, and S size printing with thermal paper.

L
L size printing with thermal paper.

- When using thermal paper (selecting THERMAL: ON in SYSTEM SETUP menu), AUTO/S is changed to L/S.

MULTI
Selects ON or OFF for 2, 4, or 16 images on a sheet.

OFF
Multi-image print is not available. 1 image mode.

OFF(PRNT SELECT)
4 memory pages display. 1 image mode.

ON
Multi-image print is available.
- When selecting OFF or OFF(PRNT SELECT), MODE: SAME/DIFF/PHOTO1 and IMAGES: 2/2S/4/16 are not displayed.
- When setting AUTO CLEAR to MEM or AFTER PRN in OFF(PRNT SELECT), only selecting page is cleared.

MODE
Selects print mode.

SAME
Prints images of the same scenes on a sheet.

DIFF (Different)
Prints images of different scenes on a sheet.

PHOTO1
Prints images in PHOTO mode.

- This menu is displayed only when MULTI: ON is selected.
IMAGES  Selects the number of images on a sheet. Is displayed when setting MULTI : ON.

2  2-images on a sheet. (2 S-size images can be printed in L size print. However, the top and bottom of the image will be clipped.)
2S  2 reduced images on a sheet. (For L size print, the images can be printed without clipping by reducing S size images. In the case, the printing speed (PRN SPEED) becomes NORMAL. For S size print, 2 images can be printed as the same result as 2 mode.)
4  4-images on a sheet
16  16-images on a sheet
• 2S is not displayed when selecting THERMAL : ON.

• When selecting MODE : PHOTO1, the following sizes are available.
  CARD  20mm x 15mm
  3 * 4  30mm x 40mm
  5 * 5  50mm x 50mm
  3 * 3.5  30mm x 35mm

SIZE  Sets the print area of the image. Choose from 3 preset print areas or a user selectable area.

  Printed image size of 1 image mode(mm)
  (S size) (L size)
  W  100X75  125X94
  M  94X70  118X89
  N  90X68  113X85
  USER  Optional size by user

• Part of the image may be clipped from the print depending on the print size.

COPY  Copies a printed image size which is set W, M, or N in size. The selected setting level is displayed as TOP, BOTTOM, LEFT and RIGHT. These levels become the changing base.

TOP/BOTTOM/LEFT/RIGHT
  Sets the printing area of the image. Adjust the size with \ or \ button.

  TOP  Shifts the upper end of the image (setting area : 0 to -48)
  BOTTOM  Shifts the lower end of the image (setting area : 0 to -48)
  LEFT  Shifts the left end of the image (setting area : 0 to -63)
  RIGHT  Shifts the right end of the image (setting area : 0 to -63)

NOTE
• When monochrome signal is input, colours may not be added to the characters displayed on the monitor. In that case, set SELECT of ANALOG COLOR ADJ MENU to "B&W" in SERVICE MENU.
• When SIZE is set to W or the minus value is increased on H-POSI, the monitor screen may get darker according to the monitor connected. However, the image will be printed correctly.
ADJUSTMENTS & SETTINGS (MAIN MENU)

### PRINT  Print setting display

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>APT (Aperture)</td>
<td>Controls apertures and reinforces or softens the contour of image.</td>
</tr>
<tr>
<td>S (SOFT)</td>
<td>Softens the contour.</td>
</tr>
<tr>
<td>N (NORMAL)</td>
<td>Does not perform APT.</td>
</tr>
<tr>
<td>H1 (HARD 1)</td>
<td>Reinforces the contour.</td>
</tr>
<tr>
<td>H2 (HARD 2)</td>
<td>Reinforces the contour more.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DIR (Print direction)</th>
<th>Selects printing direction. The left and right margin sizes will be different on L size paper.</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOR</td>
<td>The margin is made on the lower position.</td>
</tr>
<tr>
<td>REV</td>
<td>The margin is made on the upper position.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MIRROR</th>
<th>Selects the mirror (left/right inversed) prints.</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Normal print</td>
</tr>
<tr>
<td>ON</td>
<td>Mirror print</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PRN SPEED (Printing speed)</th>
<th>Selects the printing speed.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FAST</td>
<td>High speed printing</td>
</tr>
<tr>
<td></td>
<td>(S size : 1280 dots (100mm) x 600 lines (75mm))</td>
</tr>
<tr>
<td>NORMAL</td>
<td>Prints lines in double density.</td>
</tr>
<tr>
<td></td>
<td>(S size : 1280 dots (100mm) x 1200 lines (75mm))</td>
</tr>
</tbody>
</table>

- Only NORMAL is available when using CK900S4P(HX)EU or CK900L4P(HX)EU or selecting IMAGES : 2S.
- ONLY FAST is available when selecting THERMAL : ON.

**Examples of SIZE, DIR and MIRROR setting**
(This image is limited in printing with white by SIZE setting.)

- **Standard print**
- When the values of TOP and RIGHT are small
- When the values of TOP and RIGHT are small and MIRROR is ON
- When the values of TOP and RIGHT are small and DIR is REV

- When the values of BOTTOM and LEFT are small
- When the values of TOP and RIGHT are small and MIRROR is ON and DIR is REV
COMMENT  Comment making display

This menu is used to enter a comment.

1. **Comment mode**
   - **OFF**
     - Does not display the comment.
   - **ON[SET]**
     - Displays the comment.
     - When pressing SET button during selecting ON, the editing display will be shown.

2. **Comment display**
   - Displays the comment in this part. 48 letters (24 letters x 2 lines) are available to input. Choose LEFT or RIGHT by ▲, ▼, ●, ● buttons, and select the position to input a letter.

3. **Character table**
   - Selects the character to input with ▲, ▼, ●, ● buttons.

4. **Editing mode**
   - **INS**
     - Select INS and press SET button to insert a space. When the cursor is on a letter, a space is inserted at the cursor position and the letters shift to right.
   - **DEL**
     - Select DEL and press SET button to delete the selected letter. The letters shift to left.
   - **CANCEL**
     - Select CANCEL and press SET button go back to the previous comment which has been memorized.
   - **SAVE**
     - Select SAVE and press SET button to memorize the comment.

### MAKING A COMMENT

1. **Select ON with ▶ button and press SET button.**
   - The comment editing display appears.

2. **Select the position where the letter is inputted.**
   - Choose LEFT or RIGHT with ▲, ▼, ●, ● buttons, and move the cursor.

3. **Move the cursor to the character table with ▲, ▼, ●, ● buttons.**
   - Then, select a desired letter.
   - The selected letter will go on and off in red.

4. **Press SET button.**
   - The selected letter is inputted into the comment display block.
   - The cursor in the comment display block will move to right.
5 Repeat steps 2 to 4 to complete a comment.

- Skip 2 if you do not change the cursor position.
- Only one comment can be stored regardless of the program number you chose in SAVE PRG. Same comment will be stored in PRG. 1 through PRG.3. Different comments cannot be stored in each program.
- When printing in FIELD mode, the comment is a little lower in quality.

**MEMORY POSITION Memory and Position setting**

- The print area settings made with this menu can be memorized as a user program setting.

**LINE**
- Selects whether showing a frame of print area or not.
  - OFF A frame of print area is not shown.
  - ON A frame of print area is shown.
- When LINE is set to ON, the monitor colour may be changed, or the image may become unstable horizontally depending on the H-POSI setting. In this case, set LINE to OFF.
- When the frame becomes over the setting area, the frame colour turns black.
- The frame is not displayed on the memory image.

**H-POSI**
- Changes the horizontal start position of input signal
  - The whole data image can be moved horizontally by changing the setting number.
  - Setting area -8 ~ +8
  - When setting minus value too large, the right side of the memory image is clipped on the monitor. However, it is printed normally.

**V-POSI**
- Changes the vertical start position of input signal
  - The whole data image can be moved vertically by changing the setting number.
  - Setting area -10 ~ 0
ADJUSTMENTS & SETTINGS (SERVICE MENU)

SERVICE MENU ITEMS

- **SYSTEM**: Sets page increment, buzzer and remaining of ink sheet, selects thermal paper.
- **GAMMA ADJ**: Sets gamma curve level
- **LAYOUT2**: Adjusts print layout setting.
- **ANALOG COLOR ADJ**: Adjusts analog input signal image.
- **INPUT**: Sets even/odd number of FIELD, adjusts display, input signals, etc.
- **OUTPUT**: Sets sub-contrast of the monitor, sync. signal.
- **KEYSET**: Selects the functions of the buttons and function of remote terminal.
- **REMOTE**: Selects remote signal.
- **PREVIOUS ERROR**: Shows error history.
- **SAVE PRG**: Stores the above settings in 1 of 3 user memories.

OPERATING SERVICE MENU

1. Press **MENU** button on the remote control unit.
   MAIN MENU is displayed.

2. Press **STOP** buttons on the remote control unit at the same time.
   SERVICE MENU is displayed.

3. Select your desired item by pressing ▲ or ▼ on the remote control unit.

4. Press ▶ button to open a sub menu.

5. Select an item you wish to adjust by pressing ▲ or ▼.

6. Press ◀ or ▶ button to select an item or change value.

7. Press **SET** button.
   SERVICE MENU is displayed.
   “SAVE PRG 1/2/3/CANCEL” is selected.
   This menu lets you select a program memory (1-3) to store your new settings.

8. Press ◀ or ▶ button to select the program memory numbers of 1, 2 or 3 to store the setting.
   The program is replaced. In case of keeping the stored program, do not select the program memory number in which the setting is stored.
   If you wish to cancel the setting, select CANCEL.

9. Press **SET** button.
   When selecting PRG1 to set, “1” is chosen. When memorizing in a different program memory number, select the number of the program.
   The setting is completed and the normal screen is displayed.
ADJUSTMENTS & SETTINGS (SERVICE MENU)

SYSTEM SETUP  System setting display

INCREMENTS
OFF  Page increment is not available.
PART  Every time pressing MEMORY button, memory part goes to the next part
and image will be memorized on it. The memory page does not go to the
next. When MULTI:OFF, this mode works as same as PAGE mode.
PAGE  Every time pressing MEMORY button, memory page goes to the next
page and image will be memorized on it.

BUZZER  Selects the buzzer sound when pressing the buttons on the VCP
and remote control unit.
OFF    Does not sound the buzzer
T1     Sound the buzzer (Tone 1)
T2     Sound the buzzer (Tone 2)

REMAINING Q'ty  Sets the number of ink sheet to inform the remaining.
0 ~ 20  Informs by the setting of REMAIN NOTICE when 0 to 20 ink sheet are left.

REMAIN NOTICE  Selects the way to inform when the number of ink sheet is less than the
set number in REMAINING Q'ty.
OFF    Does not inform the remaining.
BZ     The buzzer sounds three times when turning on the power, completing
printing, and closing the door.
PRN    Informs by printing a red mark under the comment area on the print.
B&P    The buzzer sounds three times and a red mark is printed under the
comment area on the print.
• When selecting SELECT : B&W in COLOR ADJ, the red mark is printed in black-


REMAINING SCREEN  Selects displaying the remains of ink sheet on the monitor or not.
OFF    Does not display the remains of ink sheet on the monitor.
ON     Displays the remains of ink sheet on the monitor.
• If a paper jam occurs, the remains of the ink sheet may be different from the indication
on the monitor.

NOTE

When THERMAL is set to ON, REMAINING Q'ty, REMAIN NOTICE and REMAINING
SCREEN are not displayed.

ERROR SCREEN  Selects displaying the error on the monitor.
OFF    When DISPLAY off is selected, the error is not displayed on the monitor.
ON     Even if DISPLAY off is selected, the error is displayed on the monitor.

AUTO FEED&Cut  Selects automatically feeding and cutting the print paper or not.
OFF    Does not feed and cut the print paper.
ON     When power is on and setting the print paper, this unit automatically feeds
and cuts it twice after closing the front door.
• Only OFF is displayed when selecting THERMAL : ON.

THERMAL  Selects the type of printing paper.
OFF    Colour print paper.
ON     Monochrome thermal paper.
• The image may not be printed correctly depending on the set of actual paper
  type, installation of ink sheet and condition of selecting menu. (Refer to the next
  page.)
• When using thermal paper, do not install the ink cassette.
### PAPER HOLD
- **OFF**: Printed paper is cut and released.
- **ON**: Printed paper is held at the print outlet after cut. Pull the paper out when necessary.

- When selecting THERMAL : ON, this menu changes to AUTO CUT.
- It is recommended not to leave the printed paper holding at the print outlet. Some malfunction may occur.
- Do not turn off the power while holding paper.
- When PAPER HOLD is set to ON, MENU button and COLOR ADJ button on the remote control unit are not available.

### AUTO CUT
- Selects cutting the printed thermal paper automatically or not.
  - **ON**: Cuts the printed thermal paper automatically.
  - **OFF**: Does not cut the thermal paper. Press MEMORY button while pressing MONITOR button.
- This menu is displayed only when THERMAL : ON is selected.

### INIT PROG (Initialize program)
- **ALL**: Mode to initialize the program in MAIN MENU and SERVICE MENU.
- **MAIN**: Mode to initialize the program in MAIN MENU.
- **SERVICE**: Mode to initialize the program in SERVICE MENU.

#### INITIALIZE
- **OFF**: Does not initialize.
- **GO[SET]**: Starts initializing. When SET button is pressed, initializing starts.

### Setting and type of print paper / Print result

<table>
<thead>
<tr>
<th>Setting</th>
<th>Type of print paper</th>
<th>Colour print paper</th>
<th>Monochrome thermal paper</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>With ink cassette</td>
<td>Without ink cassette</td>
<td>With ink cassette</td>
</tr>
<tr>
<td>THERMAL</td>
<td>AUTO CUT</td>
<td>MARGIN CUT</td>
<td></td>
</tr>
<tr>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>Printing is not available.</td>
</tr>
<tr>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>CHECK CASSETTE</td>
</tr>
<tr>
<td>OFF</td>
<td>ON</td>
<td>OFF</td>
<td>Normal colour print with Paper hold</td>
</tr>
<tr>
<td>OFF</td>
<td>ON</td>
<td>OFF</td>
<td>Normal colour print with Margin cut</td>
</tr>
<tr>
<td>ON</td>
<td>Not displayed</td>
<td>OFF</td>
<td>Printing is not available.</td>
</tr>
<tr>
<td>ON</td>
<td>Not displayed</td>
<td>OFF</td>
<td>REMOVE CAS TML ‘2’</td>
</tr>
</tbody>
</table>

- 1, 2: This error is displayed when turning the power on, and closing the door.
- 3: In this case, remove the thermal paper and install the colour print paper.
- 4: In this case, remove the colour print paper and install the thermal paper.

**NOTE**
- When setting THERMAL to OFF after thermal printing with setting AUTO CUT to OFF, “PUSH FEED&CUTS” is displayed on the monitor. In this case, press MEMORY button with holding MONITOR button to cut the printed paper.
- When selecting AUTO CUT : OFF, make sure to cut the printed paper before turning off the power.

### GAMMA ADJ  Gamma level setting display

#### INIT : [CLEAR]
- Initializes each setting.

#### COLOR
- **ALL**: Selects the adjusting gamma level.
- **EACH**: Adjusting gamma level for each colour of R, G, B.

#### SELECT
- Is displayed when selecting “EACH” in COLOR.
  - **R**: Adjusting gamma level for red.
  - **G**: Adjusting gamma level for green.
  - **B**: Adjusting gamma level for blue.

Changing gamma curve:
- Use the ▲,▼ buttons on the remote control unit to select the Hi/Mid/Low gamma point to set.
- Also use ◀,▶ buttons to input setting level.
**ADJUSTMENTS & SETTINGS (SERVICE MENU)**

**Hi/Mid/Low**  Adjusts the colour depth of image by selected point.
**POINT(Hi/Mid/Low)**  Selects the point to adjust the colour depth.
(EXAMPLE)  Pointing lighter colour much lighter;  Set the setting level for POINT(Hi) and Hi higher.

---

**NOTE**  
It takes time to set the gamma value by CPU. Wait until the normal display is shown after pressing SET button.
It may take time to switch the program when the value of gamma setting is changed.

---

**LAYOUT2 Layout setting display 2**

<table>
<thead>
<tr>
<th>PRN V AREA</th>
<th>Adjusts the vertical position of memory image</th>
</tr>
</thead>
<tbody>
<tr>
<td>Setting area</td>
<td>-10 ~ 10 (adjusts 2 lines each)</td>
</tr>
</tbody>
</table>
- This menu is displayed only when IMAGES is set for 2 in L size paper.
- PRN V AREA permits adjustment of the vertical position of the image so that the clipped part of the image can be moved higher and lower.

<table>
<thead>
<tr>
<th>SEPARATE</th>
<th>Selects whether a white frame is added to each print or not.</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Prints without white frame. (A white frame appears according to the setting of LAYOUT)</td>
</tr>
<tr>
<td>ON</td>
<td>Prints with white frame.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MARGIN CUT</th>
<th>Cuts the margin of the printed paper.</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Margin is not cut.</td>
</tr>
<tr>
<td>ON</td>
<td>Margin is cut.</td>
</tr>
</tbody>
</table>
- Only OFF is displayed when selecting THERMAL : ON.

---

**ANALOG COLOR ADJ  Analog colour adjustment display**

- This menu is used to adjust the image of analog input signal before storing in the memory.

<table>
<thead>
<tr>
<th>INPUT COLOR</th>
<th>Selects processing of video signal.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B&amp;W</td>
<td>Processes as monochrome video signal. (The image is shown in black and white.)</td>
</tr>
<tr>
<td>Select B&amp;W</td>
<td>when inputting monochrome signal.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BRT (Bright)</th>
<th>Adjust the brightness of the printing image.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONT (Contrast)</td>
<td>Adjust the contrast of the printing image.</td>
</tr>
<tr>
<td>R-SUB</td>
<td>Adjusts red-subcontrast of the printing image. Red is added with ▶ and blue is added with ◀.</td>
</tr>
<tr>
<td>G-SUB</td>
<td>Adjusts green-subcontrast of the printing image. Green is added with ▶ and pink is added with ◀.</td>
</tr>
<tr>
<td>B-SUB</td>
<td>Adjusts blue-subcontrast of the printing image. Blue is added with ▶ and yellow is added with ◀.</td>
</tr>
<tr>
<td>COLOR</td>
<td>Adjusts density of the printing image. The colour of the image gets deeper with ▶ and lighter with ◀.</td>
</tr>
<tr>
<td>APT</td>
<td>Adjusts the contour of image. The contour is reinforced with ▶ and softened with ◀.</td>
</tr>
<tr>
<td>CENTER</td>
<td>Initializes each setting. When pressing ▶, the values of BRT, CONT, R-SUB, G-SUB, B-SUB, COLOR and APT will be reset to centre value.</td>
</tr>
<tr>
<td>CANCEL</td>
<td>Initializes each setting in ANALOG COLOR ADJ.</td>
</tr>
</tbody>
</table>
INPUT  Input signal setting display

• Set this menu before memorizing image.

FIELD  The odd and even field lines will be reversed depending on the input interlaced signal. Printing image is not clear so that the odd and even field lines may be reversed depending on the input interlaced signal. In this case, FIELD is set to “REV.” (The image disorder cannot be seen in monitor display.)

NOR (Normal)  Does not reverse FIELD as remaining the input interlaced signal.

REV (Reverse)  Reverse the even and odd numbers of FIELD

AFC (Automatic frequency control)  The image distortion on the top may occur when the VCR image is special input such as in pause, field-by-field playback, or FF playback mode. Also, the image is not printed correctly because of a weak TV signal. In this case, set the AFC function to “ON.”

• The image distortion on the top may occur by the special signal when AFC is set to “ON.”. In this case, set it to “OFF.”

OFF  AFC is invalid.

ON  AFC is available.

AGC (Automatic gain control)  This function is to automatically adjust a dark picture in brightness and print with sharp contrast. Peak level of an input signal is detected and signal width is standardized to the appropriate value.

OFF  AGC is invalid.

ON  AGC is available.

DCF  This function selects whether separating the composite video signal or not. When inputting the monochrome signal, set this function to OFF. The input signal is not through DCF circuit, so that this function is for high quality of monochrome image. When inputting the colour composite signal, set this function to “ON.”. Input signal is through DCF circuit and the composite video signal is separated.

OFF  When inputting monochrome signal

ON  When inputting colour signal

• This function is not available when selecting S-VIDEO.

OUTPUT Output signal setting display

MONI R-SUB  Adjusts red-sub-contrast on the monitor. Red is added with ▲ and blue is added with ◀.

MONI B-SUB  Adjusts blue-sub-contrast on the monitor. Blue is added with ▲ and yellow is added with ◀.

MEMORY SYNC  Selects the Sync. signal for displaying memory image.

EXT  Selects Sync. output signal, and displays memory image.

INT  Selects Sync. input signal, and displays memory image.

• Selecting Sync. output signal may not display memory image correctly depending on the connection. In this case, set SYNC to “INT.”

• When selecting INT and displaying the memory image, the comment is not displayed.
KEY SET Button function setting display

KEY LOCK
OFF Makes the function on the remote control unit buttons invalid.
ON All buttons on the remote control unit are available.

MEM&PRN (Memory and Print)
When pressing MEMORY button, the image is automatically printed after the image is stored in the memory. In case of multi-image of different scenes, printing will be done after the last image is stored in memory.
OFF MEMORY button functions individually. The image is memorized without printing.
ON Automatically prints after memorizing.
R1 When a signal inputted through a memory key (pin No. 2) of the remote terminal on the rear panel is switched to "low" level from "high" for the first time, a memory image is displayed. Then at the second time, a source image is displayed without printing the memory image.
R2 On the KEEP MONI OFF status, when a signal inputted through a memory key (pin No. 2) of the remote terminal is switched to "low" level from "high" for the first time, a memory image is displayed. Then at the second time, a source image is displayed and the memory image is printed.
Do not change the MULTI setting after memorizing an image.

MEM&STOP (Memory and Stop)
OFF The next image is overlaid in the memory.
PART The next image can not be overlaid in the memory when all parts of a page become full. To overlay a new image, print the memorized image.
PAGE The next image can not be overlaid in the memory when all pages become full. To overlay a new image, print the memorized image.

MEM&MONI (Memory and Monitor)
Switches the monitor display between the source image and memory image after memorizing.
OFF Displays the source image.
ON Displays the memory image. (Initial setting)
• When KEEP MONI is set to OFF, the source image will be displayed when starting printing.

KEEP MONI
OFF Displays the source image after starting printing.
ON Displays the source image after starting printing, when indicating it before printing. Displays the memory image after starting printing, when indicating it before printing.

AUTO CLEAR
OFF The printed memory image is not cleared.
MEM When MULTI is set to ON, the memory image is cleared after memorizing on the printed memory page again.
AFTER PRN The printed memory image is cleared after completing printing.
• For continuous printing, the stored images are cleared by above settings after completing printing the setting numbers of print.

CLEAR KEY
PART Pressing CLEAR button on the remote control unit, the selected one MULTI image is cleared.
PAGE Pressing CLEAR button on the remote control unit, images of the memorized page being selected are cleared.
ALL Pressing CLEAR button on the remote control unit, all of the stored images are cleared.
REMOTE SET  Remote signal setting display

<table>
<thead>
<tr>
<th>BUSY LEVEL</th>
<th>Selects the level of BUSY signal from the remote terminals 1 and 2 on the rear panel.</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOW</td>
<td>The VCP cannot accept the remote input signal when the signal is “LOW”.</td>
</tr>
<tr>
<td>HIGH</td>
<td>The VCP cannot accept the remote input signal when the signal is “HIGH”.</td>
</tr>
<tr>
<td></td>
<td>• The default setting is “HIGH”.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BUSY 1,2 SELECT</th>
<th>Selects when the BUSY signal is outputted from the remote terminals 1 and 2 on the rear panel.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRINTING</td>
<td>Outputs BUSY signal during printing.</td>
</tr>
<tr>
<td>MECHA ERR</td>
<td>Outputs BUSY signal when a mechanical error occurs in this unit or IC chip is not installed. BUSY signal is also outputted when the printing mechanism is pulled out or the menu is displayed on the monitor.</td>
</tr>
<tr>
<td>MEDIA ERR</td>
<td>Outputs BUSY signal when an error for paper or ink sheet occurs.</td>
</tr>
<tr>
<td>MEMORY STOP</td>
<td>Outputs BUSY signal when MEMORY button is not functioning.</td>
</tr>
<tr>
<td>STROBE 1V</td>
<td>After outputting BUSY signal, memory is taken in by waiting to 1 vertical period.</td>
</tr>
<tr>
<td>STROBE 2V</td>
<td>After outputting BUSY signal, memory is taken in by waiting to 2 vertical periods.</td>
</tr>
<tr>
<td>REMAINING</td>
<td>Outputs BUSY signal when the remains of ink sheet becomes the value set in REMAINING Q’y.</td>
</tr>
<tr>
<td></td>
<td>• When either STROBE 1V or STROBE 2V is set to OFF, the other is available for setting.</td>
</tr>
</tbody>
</table>

SYNCHRONOUS SETTING FOR MEMORY

STROBE : 1V, BUSY LEVEL : HIGH in REMOTE SET of SERVICE MENU

STROBE : 2V, BUSY LEVEL : HIGH in REMOTE SET of SERVICE MENU

The numbers in the above figures are just references. The timing may be different according to the setting.

PREVIOUS ERROR  Error display

This function displays the most recent type of error.
If for some reason printing is not possible or error occurs during printing, the error message will be displayed on the monitor screen. In this case, follow the procedure described below.

<table>
<thead>
<tr>
<th>Error messages</th>
<th>Causes</th>
<th>Countermeasures</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOOR OPEN</td>
<td>The printing mechanism is not locked completely.</td>
<td>• Insert the printing mechanism until it is locked in the unit.</td>
</tr>
<tr>
<td>CHANGE PAPER</td>
<td>Paper is used up.</td>
<td>• Set a new roll of paper. Refer to pages 12-13. *Note : 1</td>
</tr>
<tr>
<td>CHANGE INK</td>
<td>The ink sheet is used up.</td>
<td>• Replace the ink sheet with a new one. Refer to pages 14-15.</td>
</tr>
<tr>
<td>SET CASSETTE</td>
<td>The ink cassette is not installed.</td>
<td>• Install the ink cassette. Refer to pages 14-15.</td>
</tr>
<tr>
<td>REMOVE CASS TML</td>
<td>Ink cassette is installed when selecting THERMAL : ON.</td>
<td>• Remove the ink cassette.</td>
</tr>
<tr>
<td>SET PAPER</td>
<td>Paper is not installed.</td>
<td>• Set paper correctly.</td>
</tr>
<tr>
<td>OVER HEAT</td>
<td>The temperature of the thermal head becomes too high.</td>
<td>• Wait until the message goes off. *Note : 2</td>
</tr>
<tr>
<td>CHECK INK 1*</td>
<td>IC chip is not installed. The data in IC chip cannot be read correctly.</td>
<td>• Use an ink sheet with the attached IC chip. Set the attached IC chip on an ink sheet. User the correct ink sheet with IC chip.</td>
</tr>
<tr>
<td>(*: 1~7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHECK INK 4</td>
<td>IC chip and the ink mark are not the same. A wrong media type is set.</td>
<td>• Use correct IC chip and ink sheet.</td>
</tr>
<tr>
<td>REMOVE PAPER 11</td>
<td>Paper jam occurs.</td>
<td>• Refer to page 47 &quot;Overcoming paper jams&quot;. Press MEMORY button for more 1 second while pressing the MONITOR button. *Note : 3</td>
</tr>
<tr>
<td>REMOVE PAPER 12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REMOVE PAPER 13</td>
<td>Paper jam occurs when selecting THERMAL : ON.</td>
<td></td>
</tr>
<tr>
<td>CHECK EXIT *Note : 4</td>
<td>Paper is left in the paper outlet.</td>
<td>• Remove the paper.</td>
</tr>
<tr>
<td>MECHA ERROR 20</td>
<td>Other defects.</td>
<td>• Press MEMORY button for more 1 second while pressing the MONITOR button. *Note : 3 In case of paper jam, refer to page 47 “Overcoming paper jams”. If the status is not improved by carrying out this measure, consult your dealer.</td>
</tr>
<tr>
<td>MECHA ERROR 30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MECHA ERROR 40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OTHERS</td>
<td>Other defects.</td>
<td>• Consult your dealer.</td>
</tr>
</tbody>
</table>

*Note : 1 The image may not be printed completely.
*Note : 2 When setting the continuous printing, the continuous printing is carried out after the error message goes off.
*Note : 3 This is an operation for initialization. Make sure to press the MONITOR button first. If MEMORY button is pressed first, a new image will be stored in memory erasing any previously stored image.
*Note : 4 During error status, the buzzer keeps sounding.

Other messages:

<table>
<thead>
<tr>
<th>Messages</th>
<th>Causes and countermeasures</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUSH FEED&amp;CUT</td>
<td>Indicated when the power is turned on after turning off during printing.</td>
</tr>
<tr>
<td></td>
<td>Press MEMORY button for more than one second while pressing MONITOR button. This is initializing. Make sure to press MONITOR button first.</td>
</tr>
<tr>
<td>MECHA INITIALIZE</td>
<td>Indicated during initializing.</td>
</tr>
<tr>
<td>PRINT STOP</td>
<td>In the case of pressing STOP button on the remote control during printing, this unit is initialized. This message is indicated during initializing.</td>
</tr>
</tbody>
</table>

NOTE

- FEED&CUT (paper feeding and cutting) may not work when “PUSH FEED&CUT” or “MECHA ERROR” is displayed. In this case, pull the printing unit out to remove the print paper and re-install it. Then, close the printing unit and press MEMORY button while pressing MONITOR button again.
- If turning off the power during printing or stand-by, and turn on the power again with THERMAL : ON and AUTO CUT : OFF, “PUSH FEED&CUT” is displayed. In this case, make sure to remove the printed part with scissors etc, and press MEMORY button while pressing MONITOR button to feed & cut.
BEFORE CALLING FOR SERVICE

Use the following troubleshooting chart to try to resolve any apparent defect in operation. If you are unable to resolve the problem, unplug the power cord and contact your dealer.

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Check and Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>No power (when POWER lamp does not illuminate)</td>
<td>Is the power cord plug disconnected from the outlet?  → Connect the power cord plug to the outlet firmly.  After turning the power off, wait for approx. 2 minutes. Then turn on the power.</td>
</tr>
<tr>
<td>No image appears on the monitor.</td>
<td>Are the video signal and sync. signal inputted to this unit?  → Check the connection. Refer to page 11.  Is the input signal on the menu screen (INPUT : VIDEO, S-VIDEO) selected correctly?  → Check the current setting. Refer to pages 17-18.  Is the image stored in memory displayed on the monitor screen?  → Press MONITOR button to display the source image (LIVE).</td>
</tr>
<tr>
<td>The image is not stored in memory.</td>
<td>Are the images being printed with full memorized memory page?  → Press the CLEAR button on the remote control unit after printing.  Then, store the image in the memory again.  Is the memory full in the status of “INCREMENT : OFF” or “AUTO CLEAR : OFF”?  → Store the image in the memory after pressing the CLEAR button on the remote control unit.  (According to the setting conditions, the image can be stored in the memory by setting INCREMENT to “PART” or “PAGE”, AUTO CLEAR to “AFTER PRN” or pressing the PRINT button.)  Is the memory full in the status of “MEM &amp; STOP : ON”?  → Press CLEAR button on the remote control unit, and store the image again.</td>
</tr>
<tr>
<td>The image is not printed.</td>
<td>Is the image stored in memory?  → Confirm that the image is stored in memory.  Is the print paper or ink sheet used up?  → Check the status.  Is the printing mechanism set correctly?  → Set the printing unit correctly.</td>
</tr>
<tr>
<td>The stored image in the memory cannot be enlarged to fill the maximum print area.</td>
<td>Is the S size ink sheet installed when selecting “S” in “MODE : AUTO/S”? Or is the L size ink sheet installed when selecting “AUTO” in “MODE : AUTO/S”?  → Check the current setting. Refer to pages 18-19.  Is the paper size set to “N” in the size setting in LAYOUT menu?  → Set the size to “M” or “W”. Refer to page 33.  Is the print area set correctly in LAYOUT menu?  → Check the setting of the print area. Refer to pages 32-33.</td>
</tr>
<tr>
<td>The colour or picture quality is different between the memorized image and the printed image.</td>
<td>Is the colour of the image stored in the memory adjusted?  → Adjust the colour of the image stored in the memory with Colour adjustment display (COLOR ADJ). Refer to page 32.</td>
</tr>
<tr>
<td>Symptom</td>
<td>Check and Remedy</td>
</tr>
<tr>
<td>------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>When inputting monochrome image signal (without burst signal), sync.</td>
<td>Is INPUT in ANALOG COLOR ADJ set to “COLOR”? → Set INPUT to “B&amp;W”. Refer to page 40.</td>
</tr>
<tr>
<td>becomes unstable.</td>
<td></td>
</tr>
<tr>
<td>The colour or picture quality is different between the image on the</td>
<td>Is the image on the monitor screen adjusted? → Adjust the image on the monitor screen with “MONI R-SUB” and “MONI B-SUB” in the OUTPUT menu. Refer to page 41.</td>
</tr>
<tr>
<td>monitor screen and the printed image. (When the colour and picture</td>
<td></td>
</tr>
<tr>
<td>quality are same between the image stored in the memory and the</td>
<td></td>
</tr>
<tr>
<td>printed image.)</td>
<td></td>
</tr>
<tr>
<td>The set comments do not appear on the print paper.</td>
<td>Is the COMMENT set to “OFF”? → Set COMMENT to “ON”. Refer to page 35.</td>
</tr>
<tr>
<td>Is the comment inputted?</td>
<td>Is the comment inputted? → Input the comment on the menu. Refer to pages 35-36.</td>
</tr>
<tr>
<td>Wired remote control unit cannot be operated.</td>
<td>Is the plug of the remote control unit disconnected from its terminal on the unit? → Connect the plug of the remote control unit to the REMOTE terminal on the unit. The supplied remote control unit can not be used by connecting to the external remote terminal on the rear panel of this unit.</td>
</tr>
<tr>
<td>Is the wired remote control unit for this unit (accessory) used?</td>
<td>Is the wired remote control unit for this unit (accessory) used? → Use the remote control unit for this unit.</td>
</tr>
<tr>
<td></td>
<td>Is PAPER HOLD set to “ON”, and is printed paper kept at the print outlet? → Remove the printed paper from the print outlet.</td>
</tr>
<tr>
<td>The printing unit cannot be opened.</td>
<td>Is the KEY LOCK set to ON? → Set the KEY LOCK to OFF.</td>
</tr>
<tr>
<td></td>
<td>Is the paper cut after printing with THERMAL : ON and AUTO CUT : OFF? → Press MEMORY button while pressing MONITOR button to cut the printed paper.</td>
</tr>
</tbody>
</table>
OVERCOMING PAPER JAMS

1. Press OPEN button to pull out the printing mechanism. When it is not working, turn off the power once. Then try to press OPEN button again.

2. Remove the ink cassette with ink sheet.

3. Remove the print paper as shown right.

4. Cut the defective part of the print paper with scissors.

5. Cut both edges of the print paper.

6. Install the print paper. (Refer to pages 12-13.)

**NOTE**
To feed the print paper, press MEMORY button while pressing MONITOR button. When carrying out this procedure, make sure to press MONITOR button first. If MEMORY button is pressed first, a new image will be stored in memory and the previously memorized image will be erased.
Cleaning as indicated below will help maintain stable printer operation and extend the printer’s life.

**Preparations**
- Alcohol (isopropyl alcohol)
- Tissue paper (Fold in half about 4 times, and use the folded side to clean.)
- Cotton buds
- Cleaning kit (Option)*
- Other : Cleaner pen (Option)*

*Please ask the dealer about options.

Make sure to turn off the power before cleaning.

1. **Press OPEN button to pull the printing mechanism out.**
2. **Remove the ink cassette and print paper.**
3. **Wipe the ink sheet sensor.**
   - Clean the parts circled in the right figure.
   - Wipe dust with cotton buds etc. which is soaked in a small amount of alcohol.
4. **Wipe the ink sheet sensor reflection plate.**
   - Clean the metal reflection plate.
   - Wipe with tissue paper etc. which is soaked in a small amount of alcohol carefully.
5. **Wipe the head.**
   - Cleaning the part under the thermal head which develops heat.
   - Wipe the head cleaning part carefully with tissue paper etc. which is soaked in a small amount of alcohol.

**NOTE**
- Do not damage the thermal head.
- When the symptom of the poor print quality is not corrected even if the head is cleaned, replacing the thermal head is required. Contact your dealer.
- Thermal head is hot right after printing. Wait until the head temperature is low when cleaning the thermal head.
6. **Clean the rubber roller.**
   - The seal paste and dust etc. are stuck on the rubber roller if you use it for a long time.
   - Wipe with tissue paper etc. which is soaked in a small amount of alcohol carefully.
### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Class</th>
<th>Colour Video Copy Processor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>CP910E</td>
</tr>
<tr>
<td>Printing method</td>
<td>Sublimation Dye Thermal</td>
</tr>
<tr>
<td>3 color faces progressive printing (yellow, magenta and cyan) and surface lamination</td>
<td></td>
</tr>
<tr>
<td>Print quality</td>
<td>Dot resolution: Max. 1280x600 pixels (S size / FAST mode) Number of grades: 256 (8 bits) for each colour (About 16.7 million colors)</td>
</tr>
<tr>
<td>Printing time*</td>
<td>L size Approx. 22 sec./sheet (When using CK900L / 1-image / FAST mode) S size Approx. 12 sec./sheet (When using CK900S / 1-image / FAST mode)</td>
</tr>
<tr>
<td>Ink sheet</td>
<td>Special cartridge method</td>
</tr>
<tr>
<td>Print paper (1 image mode)</td>
<td>Special roll paper L size 160 x 110mm Printing area Wide mode 125 x 94mm Middle mode 118 x 89mm Narrow mode 113 x 85mm</td>
</tr>
<tr>
<td>Special roll paper S size 110 x 105mm Printing area Wide mode 100 x 75mm Middle mode 94 x 70mm Narrow mode 90 x 68mm</td>
<td></td>
</tr>
<tr>
<td>Supply method</td>
<td>Automatic (roll paper)</td>
</tr>
<tr>
<td>Input terminal</td>
<td>Composite video (1 BNC type connectors) S-VIDEO (1 S-VIDEO terminal)</td>
</tr>
<tr>
<td>Output terminal</td>
<td>Composite video (1 BNC type connectors) S-VIDEO (1 S-VIDEO terminal)</td>
</tr>
<tr>
<td>Input/Output terminal</td>
<td>Remote terminal (Mini Din 8 pin, stereo mini jack)</td>
</tr>
<tr>
<td>Input frequency</td>
<td>H frequency 15.75 kHz V frequency 50 Hz</td>
</tr>
<tr>
<td>Power supply</td>
<td>AC 220V - 240V, 50Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td>1.2A (AC220V-240V, 50Hz) during printing (0.3A when not printing)</td>
</tr>
<tr>
<td>Installation conditions</td>
<td>Temperature: 5°C - 40°C (41°F - 104°F) Humidity: 20% - 80% (No dewing)</td>
</tr>
<tr>
<td>Operation altitude</td>
<td>Within Horizontal ±5°</td>
</tr>
<tr>
<td>Outside dimensions</td>
<td>280(W) x 150(H) x 400(D) mm</td>
</tr>
<tr>
<td>Weight</td>
<td>11kg</td>
</tr>
<tr>
<td>Accessories</td>
<td>Power cord (1), Ink cassette (1), Operation manual (1), Remote control unit (1), Spacer (4), screw (4), Attachments for thermal paper (1 set)</td>
</tr>
</tbody>
</table>

*Printing time: time between pressing PRINT button and sounding buzzer which informs the print end

### OPTIONS

#### PRINT PAPER + INK SHEET

<table>
<thead>
<tr>
<th>Product name</th>
<th>Ink sheet size</th>
<th>No. of prints</th>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>CK900S</td>
<td>S size</td>
<td>200</td>
<td>Colour print</td>
</tr>
<tr>
<td>CK900L</td>
<td>L size</td>
<td>130</td>
<td>Colour print</td>
</tr>
<tr>
<td>CK900S4P</td>
<td>S size</td>
<td>130</td>
<td>Surface-laminated colour print</td>
</tr>
<tr>
<td>CK900L4P</td>
<td>L size</td>
<td>90</td>
<td>Surface-laminated colour print</td>
</tr>
<tr>
<td>CK900S4P(HX)EU</td>
<td>S size</td>
<td>130</td>
<td>Surface-laminated colour print for ID photo</td>
</tr>
<tr>
<td>CK900L4P(HX)EU</td>
<td>L size</td>
<td>90</td>
<td>Surface-laminated colour print for ID photo</td>
</tr>
</tbody>
</table>

#### THERMAL PAPER

<table>
<thead>
<tr>
<th>Product name</th>
<th>Print size</th>
<th>No. of prints</th>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>K65HM-CE</td>
<td>S/L size</td>
<td>S size Approx.200</td>
<td>Thermal print</td>
</tr>
<tr>
<td></td>
<td></td>
<td>L size Approx.125</td>
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</tr>
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</table>

#### PAPER INK SHEET CASSETTE

<table>
<thead>
<tr>
<th>Product name</th>
<th>Ink sheet size</th>
<th>No. of prints</th>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>PKC900S</td>
<td>S size</td>
<td>200</td>
<td>Colour print</td>
</tr>
<tr>
<td>PKC900L</td>
<td>L size</td>
<td>130</td>
<td>Colour print</td>
</tr>
</tbody>
</table>
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