Before Installation

What is The Center Program?

With the Center Program users can remotely monitor and manage images from a site where a KSR system is installed. Monitoring is done via a PC and another KSR system is not required.

PC System Specification (Recommended)

- CPU: Celeron 433MHz or higher
- Memory: 64MB or higher
- VGA Card: AGP 16MB or higher
- HDD: 100MB or more spare space
- Communication Line: Modem, LAN, ISDN, Leased Circuit
- DirectX: V7.0 or higher
After purchasing KSR Center Program, please check that the following components are included in the box. If any of the contents are missing, contact your dealer.
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10. Setting (Remote) Sites
11. Searching Backup Data
12. Data Backup
13. Backup Server
14. Intelli Upgrader
1. Connecting Communication Line

1.1 Connecting LAN, ISDN (with a Router), and Leased Circuit

LAN (To be connected to UTP port of the LAN card)

Router

PC for Center Program

Internet Network & Local Intranet Network

ADSL T.A.

Leased Circuit

ADSL T.A.

Router
1.2 Connecting PSTN (Telephone Line) (Option)

Modem
(To be connected to the modem port of KSR)

PSTN
(General Telephone Line)

PC for Center Program
2. Installing Center Program

1. Insert Center Program CD into the CD-ROM, and double-click on the folder where Center Program is stored. Then, the following screen will be displayed. Double-click on “Data 1” folder.

2. Execute Setup file.
3. Select “Next” button.

4. Click on “I accept the License Agreement…” and select “Next” button.

5. Select the path to install KSR Center program, and select “Next” button.
6. The program will be installed.

![Install progress](image1)

7. After the program is completely installed, select “Finish” button.

![Finish button](image2)

8. On Windows background screen, KSR Center icon will be created as shown below. Double-click on KSR Center icon to load Center program.

![KSR Center icon](image3)
3. Loading Center Program

① Double-click on KSR Center icon on the background to load Center program.

② KSR Center system checks for a password before starting.
   (As default no password has been set.)

   ![Password Setup Box]
   Password Setup Box

[Warning]
- If this first set password is lost, it will then be impossible to subsequently change the password.
- (Write down the set password and keep it in a safe place.)

For changing the password, refer to Page 18.
4. Setting the Main Screen

Initial Screen

1. Displays the current time and date.

2. [Now]: Calls the live image when connected to the Site.

3. [Search]: Used to search stored data on the Site KSR when connected to Site; Or archived data on the Center PC when disconnected from the Site.

4. [setup]: Used to configure Center when not connected to the Site; Used to configure Site program when connected to the Site.

5. [Connect]: Connects to the site.

6. [Disconnect]: Disconnects from the site.

7. [Tx/Rx Status] is to display data transmission status between the site and the Center.

8. [Quit]: Quits the KSR Center program.

9. Displays the IP address and name of the connected site.
5. Setting Center Communication Environment

Setup

① [Setup] is to set up system environment.
Select button.

② The setup screen will be displayed.
Click on OK button to go back to the initial screen.
Setting Center Communication Environment

### Setup configuration

1. **Connection Time**
   - Shows the preserved time the connection remains idle when there is no activity between the connection. When the preserved time expires the connection automatically disconnected.

2. **Display control Status Bar**
   - Select whether or not to view the manual control status.

3. **Now Screen data save**
   - By checking this field, the user can save the live image to the hard disk drive in the Center PC after connection to the site.

4. **Remote search data save**
   - By checking this field, the user can search an archived image from the site KSR and save it to the hard disk drive in the center PC after connection to that site.

5. **Select save drive**
   - By checking this field, the user can select the hard disk drive in which to save the data from 3&4.

### [Note] Types of storage medias
Hard disk or removal drives (DVD-RAM, ZIP, MOD, ORB, USB HDD) from Windows as well as remote network drives.
## Communication Environment

1. **[Type of connection]**
   - Select the communication line type.
   - When using a normal telephone line or the ISDN (without a router), select "PSTN/ISDN (No Router)."
   - When using LAN, ADSL or leased Circuit (with a router), select "LAN/ISDN (Router)/Leased Circuit (Router)."

2. **[Installed Modem name]**
   - The name of modem installed in the system is automatically recognized and displayed only when "PSTN/ISDN (No Router) is selected".

3. **[Initialization string]**
   - For the modem installed in the system, the Initialization string is automatically recognized by the Windows and displayed on the string field.

4. **[Port and Bps]**
   - The communication port and the communication rate of the modem installed in the system are automatically recognized and displayed.

---

**[Note] PPP Setup with a PSTN/ISDN Modem**

For communication using a PSTN/ISDN modem, separate PPP setup needs to be made.

(Refer to Page 59.)

---

### Table: Communication Environment Setup

<table>
<thead>
<tr>
<th>No.</th>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Type of connection</td>
<td>- Select the communication line type.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- When using a normal telephone line or the ISDN (without a router), select</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&quot;PSTN/ISDN (No Router).&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- When using LAN, ADSL or leased Circuit (with a router), select &quot;LAN/ISDN</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Router)/Leased Circuit (Router).</td>
</tr>
<tr>
<td>2</td>
<td>Installed modem name</td>
<td>The name of modem installed in the system is automatically recognized and</td>
</tr>
<tr>
<td></td>
<td></td>
<td>displayed only when &quot;PSTN/ISDN (No Router) is selected&quot;.</td>
</tr>
<tr>
<td>3</td>
<td>Initialization string</td>
<td>For the modem installed in the system, the Initialization string is</td>
</tr>
<tr>
<td></td>
<td></td>
<td>automatically recognized by the Windows and displayed on the string field.</td>
</tr>
<tr>
<td>4</td>
<td>Port and Bps</td>
<td>The communication port and the communication rate of the modem installed in</td>
</tr>
<tr>
<td></td>
<td></td>
<td>the system are automatically recognized and displayed.</td>
</tr>
</tbody>
</table>
1. Change Password
   - This menu is to change the password.
     (In default mode, no password is set.)
   - Enter the existing password, and click on [OK].
   - Enter the new password, and click on [OK].

2. Clock Display Format
   - The user defined date and time format is displayed.

3. Setup
   - After entering data, click [OK].

4. OK
   - Click on [OK] to return to the initial menu.
6. Connecting Site Communication

① Connect

To connect to the site, in the initial screen, click on Connect.
6.1 In LAN Environment

1. Click on \[Connect\] button to display the connection setup screen as follows:

   - **[Connection Log]**: To connect to a new site, select [Add] button and enter the group, the site code, the IP address, the site name and password to register them in the connection log. The user can then connect to that site by clicking on the connection log and selecting that site in future.
   - **[PRODUCT TYPE]**: To select the KSR types from the search list.
   - **[SITE NAME]**: To input SITE NAME of the chosen KSR system.
   - **[All Sites]**: Click this button to list all registered Sites in Connection Log.
   - **[Search]**: Click this button to list only registered Sites to the chosen KSR types.

2. Add – New SITE

   Select [Add] button, and define the site code, the IP address, the installation site and the password. Then, click on [OK].

   - **[Group]**: Define the group for site information entered.
   - **[Group Add]**: Add a new group for site information entered.
   - **[Site Type]**: Select KSR system type installed in the site. (KSR204, 304M, 404, 509, 516)
   - **[SITE Code]**: The user can add the site codes in order, e.g. 100-01, 100-02, 100-03, and so on.
   - **[SITE Name]**: Enter the name of the site.
   - **[IP Address]**: Enter the IP address of the site.
   - **[Password]**: Enter the connection password that was set in Configuration menu of the site (Modem setup → Password).
   - **[Confirm]**: Enter the password to access the site.

   **[Warning]**

   When accessing the site from the Center, site name, site code, and password are compared and searched at the same time. If any of these is not correct, connection will not be established.
3 [Edit]
Select the site to edit, and click on [Edit] button.

After editing contents, click on [OK] button to save changes.

4 [Connect]
Select the site to connect, and click on [Connect] button.

The following is displayed during connection.

5 [Delete]
To delete site information, select the site and click on [Delete] button.

6 [Cancel]
Click on [Cancel] to close the window and go back to the main screen.
6.2 In PSTN and ISDN Environment

1. Select “Modem” tab in [Setup] window, and select “PSTN/ISDN - No Router.”

2. Click on [Connect] button to display the connection setup window as follows:

   ![Connection setup window]

   - [Add]: To add a new site.
   - [Group]: Define the group for site information entered.
   - [Group Add]: Add a new group for site information entered.
   - [Site Type]: Select KSR system type installed in the site. (KSR204, 304M, 404)
   - [SITE Code]: Enter the site code in order, e.g. 100-01, 100-02, 100-03, and so on.
   - [SITE Name]: Enter the site name for installation.
   - [TEL Number]: Enter the telephone number connected to the site.
   - [Password]: Enter the connection password that was set in Configuration menu of the site (Set Communication -> Set Connection -> Connection Password).
   - [Confirm]: Enter the connection password of the site.

3. Click on [Add] button and set the site code, telephone number, the site name, and password. Then, click on [OK].

   ![Add site dialog]

   - [Group]: Define the group for site information entered.
   - [Group Add]: Add a new group for site information entered.
   - [SITE Code]: Enter the site code in order, e.g. 100-01, 100-02, 100-03, and so on.
   - [SITE Name]: Enter the site name for installation.
   - [TEL Number]: Enter the telephone number connected to the site.
   - [Password]: Enter the connection password that was set in Configuration menu of the site (Set Communication -> Set Connection -> Connection Password).
   - [Confirm]: Enter the connection password of the site.

[Warning]
When accessing the site from the Center, site name, site code, and password are compared and searched at the same time. If any of these is not correct, connection will not be established.
Select the site to edit, and click on [Edit] button.
After editing contents, click on [OK] button to save changes.

Select the site to connect, and click on [Connect] button.
The following is displayed during connection.

To delete site information, select the site and click on [Delete] button.
Click on [Cancel] to close the window and go back to the main screen.
When connection is established, the following screen is displayed:
7. Selecting Live Images

Setup

1. Camera
   • Select the camera number to view
     ![Camera Selection]
   • Only installed cameras appear on the screen.

2. [Now] (Live Images)
   Click on ![Live Images Button]
   • By clicking on this button, the user can view the live image(s).

[Note]
When selecting ![Live Images Button], without selecting a camera this error message will be displayed.

Site screens will be displayed.
8. Converting to search mode

How to setup

1. [Search mode]
   - Select this button if you want to switch to search screen.
   - In order to switch the current image to search screen, press and stop the image transmission to switch to search screen.

2. [End Search]
   - Click [DISPLAY] button to be switched to search screen

This is the screen that is changed to [Search] mode.
8.1 Select Data and Time for Searching

[Select date and time]

- Year, month, day, hour, minute will be displayed for the ones you want to search.

Month, year to search

Date to search

Hour and minute to search
8.2 Camera selection

1. [Scroll button for camera]
   - This function is to scroll search cameras.

2. [Camera]
   - Select a camera number you wish to search.
   - If you click on the camera number, the corresponding camera number's graph color will change.

3. [Time indication and magnifying graph territory]
   - It indicates time for stored data.
   - When you click on time, you can clearly check the graph territory by three phrases (hourly).

4. [Indication for stored amount]
   - This function indicates recording type and storing time in a graph.
   - Pink bar indicates ‘Continuous Recording’, Blue bar indicates ‘Motion Recording’, Dark Yellow bar indicates ‘Sensor Recording’, Green bar indicates ‘Pre Alarm’, and there will be no graphic bar if nothing was recorded.

5. [Search Bar]
   - This indicates time line for presently searching data.
   - Move the bar to the left and right to search the stored data.

6. [Split Screen setup]
   - When you click the button, split mode from search screen will automatically change according to the number of cameras you choose in a form of 4, 9, or 16 split screen.

<table>
<thead>
<tr>
<th>Number of selected Camera</th>
<th>Replay split mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 ch</td>
<td>1 split mode (full)</td>
</tr>
<tr>
<td>9 ch</td>
<td>4 split mode</td>
</tr>
<tr>
<td>4 ch</td>
<td>9 split mode</td>
</tr>
<tr>
<td></td>
<td>16 split mode</td>
</tr>
</tbody>
</table>

[Tip]
Screen will be empty if no image was stored from the selected camera.
8.3 Search screen play

[Playback search screen]
- You must fix number of camera with date and time before running.
- You can playback with SKIP and SPEED.

[Tip]
- Image is recorded simultaneously while searching. But the search screen will not indicate any graph for recorded data when searching.
- Selecting [Indication for record amount renewal] button will renew the graph for recorded data.

[Skip]
- Searched output of image will be ignored as much as designated output number. It will then give the output to a monitor.
- Designated number is not the number for the images but it is an internal value for DigiNet program.

Move to selected date and initial data
Playing one picture backward
Reverse playback
Stop
Forward playback
Playing one picture forward
Move to very last data from selected date
4 [Summer Time]

- In case summer time is applied, the time indicator on search screen changes from yellow to pink, and when summer time is deactivated it returns to yellow.
- Time error problem does not occur which is due to Summertime.

<table>
<thead>
<tr>
<th>00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23</th>
</tr>
</thead>
<tbody>
<tr>
<td>[When Summer Time is not applied]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23</th>
</tr>
</thead>
<tbody>
<tr>
<td>[When Summer Time is applied]</td>
</tr>
</tbody>
</table>

[reference] What is Summer Time...

Sunset time changes in each season and the length of day time is different. Summer Time is applied to many countries around the world, which enables you to use up the extended day time of summer.

It is done by extending and an hour when starting and delaying an hour when ending.

For example, if starting time is 02 hour, then it is fixed from 02 hour to 03 hour, and closing time is fixed from 03 to 02.
Converting to Search Mode

8.4 Search screen zooming in/out and moving

1. [Zoom]
   - This function is to zoom in and out the stored image and it can zoom in the image in a five phrase.

2. [Digital Zoom]
   - When you click on Digital Zoom button, you can change the screen size among [Zoom out/ in/ move].

   - [Zoom In]
     - When you click on image using right mouse button, this function will zoom in the image for the selected part using up to 13 phrase.

   - [Zoom Out]
     - When you click on magnified image using right mouse button, selected image size will be reduced.

   - [Move]
     - This function is to zoom in the image by using right mouse button and dragging.

[Tips]
- Basically zooming a small image gets a little bit distorted image. But HNDR System has developed own compression engine code (X-Engine CODEC) to minimize this problem.

- Zooming the searched image can be done only with one camera.

(Zooming is impossible when searching multiple cameras at one time, so click stop button and select only one camera and then zoom in or out.)
8.5 Audio play

[Audio Play Configuration]
- When you want to playback audio, select the channel with recorded audio from "Audio Play" window.
  (Audio play is supported only for one channel search.)
- When you click the ‘Audio Play’ icon. The audio play configuration window like left appears.
  - Check on ‘Enable’ on ‘Audio Play’ item.
  - Adjust the volume properly using ‘Volume control’.

[Tips]
- When playing audio, select the channel with recorded audio from "Audio Play Configuration" window.
  If the proper channel was not selected in the “Audio Play Configuration” window, audio is not played although data contains audio.
- Only one channel that is setup for audio can be played on full-screen mode or searching in 1 channel mode. (Audio playback does not work on searching on multiple channels.)
- Video loss can take place within the first 1~3 seconds of play back, this is due to the video and audio synchronization and is not a fault.
- Audio can only be played back in normal forward play. Reverse Play or Frame Play is not possible.
- Skip and delay cannot be used with audio play back
- When changing the mode from the Monitoring Mode to the Searching Mode, the mic will automatically become mute.
  (When the mode is changed into the Monitoring mode, the original state will be returned.)
8.6 Printing searched image

1. [Print]
   Print the selected image.
   Printing is possible when you select [Print] button only with one magnified screen
   (Print after adjusting size and brightness.)

If the printer is not installed, following error message appears.

![Error message]

Before you can print, you need to install a printer.
To do this, click Start, point to Settings, click Printers, and then double-click Add Printer.
[Tips]
Installing printer
1. Click on Start → Setup → Printer from background.
2. In Printers window, select and click Add Printer.
3. In Add Printer window, click Next.
4. Click the manufacturer and model of your printer.
5. Click available port.
6. If your printer is not listed on screen, consult with your printer dealer.

Size of the printed image
1. Prints out in the same size as extended on the monitor.

If it does not print
1. Check if printer is fixed on Window.
2. If it still doesn’t print after checking, check the cables and electric plugs
9. Converting to Pan/Tilt & Mode

Setup

1. Left-click on the image to “zoom in”. Or, right-click on an image to convert to Pan and Tilt mode.
   (Works only when a Pan/Tilt camera is installed.)

2. Click on [DIS] button to go to Monitoring mode.

Pan/Tilt Mode
9.1 Controlling Pan/Tilt Mode

1. Displays time and date
2. Power
   - To switch the camera on/off
3. Wiper
   - To operate the camera wiper
4. Light
   - To turn on/off any camera lights
5. Auto
   - To turn on/off the auto Pan/Tilt function
6. Pan/Tilt Control
   - To adjust the camera direction - up/down and right/left
7. Focus
   - To adjust the focus of the cameras lens
   (This function is not supported when the camera uses an auto focus lens.)
8. Zoom
   - To control the zoom function of the lens
9. DIS
   - To convert from Pan/Tilt mode to Monitoring mode
10. Go-To
    - By selecting a number, the camera can be moved to the corresponding pre set.
    - To set up Go-To function, select the Go-To mode. Adjust the camera
      direction and select the button to select pre set.

Then, the user can then set the pre set location for each button.

- Only when the Pan/Tilt type installed on the site supports pre set function, can this feature be used.
  (Most speed dome camera support this function. However, some models may not.)
- In the normal Rx receiver, this function will not operate.

[Note]
To use a Pan/Tilt camera, one Rx receiver (KRE-301 or KRE-302, KRE-303) for each installed camera is required.
10. Setting (Remote) Sites

Setup

1. [Setup]
   Click on the [Setup] button.

2. Enter the password, and click on [Set] button.

3. [Exit]
   To exit setup, click on [Exit] button.
10.1 Camera/Sensor/Control Setup

10.1.1 For KSR204, 304M, 404 types

![Diagram of Camera/Sensor/Control setup]

1. **P/T/Z, [PTZ Model]**
   - To display PTZ status of each camera

2. **Sensor Type**
   - Set the sensor type.
   - By clicking on the button, NC will change to NO and vice versa. (The default is NC.)
   - NC: Normally Close Type Sensor
   - NO: Normally Open Type Sensor

3. **Beep**
   - If this function is set, the system will generate a buzzer sound from internal speaker when the sensor detects a signal. Useful for on-spot testing.
   - To use beep alarm function, check box.
   - If “Continuous Recording” was set in the recording schedule, this function will not operate.

4. **Control**
   - Select the control relay to use.
   - [Control] shows whether the control relay set in the site is to be used or not.

5. **Operation Time**
   - Enter the operational time for the control output to operate after receiving the sensor signal.
   - (A maximum 30 seconds is possible. However, the default operation setting is “0”)
10.1.2 For KSR509, KSR516 types

1. [P/T/Z], [PTZ Model]
   - Displays PTZ information for each camera connected.

2. [Sensor]
   - [Sensor Num]: To select Sensor 1 ~ 4.
   - [Sensor Type]: To select Sensor type.
     Each time click on this button, it alternates between [NC]<->[NO].
     (Default value is [NC])
     - NC : Normally Close
     - NO : Normally Open
   - [Sensor Beep]
     If this function is set, the system will generate a buzzer sound from internal speaker when the sensor detects a signal. Useful for on-spot testing.
     To use beep alarm function, turn Sensor Beep “ON”. If “Continuous Recording” was set in the recording schedule, this function will not operate.

3. [Sensor_Control]
   - [Sensor Num]: To select a Sensor number which to be associated with a Control number.
   - [Control]: To assign a Control number to the selected Sensor number. When Sensor detects a signal, it relays to the associated Control hence activates the alarm.

4. [Sensor_Camera]
   - [Sensor Num]: To select a Sensor number which to be associated with a Camera number.
   - [Camera]: To assign a camera number to the selected sensor number. When sensor detects a signal, it relays to the associated camera hence commences the image capture.

5. [Control/Control Operation Time]
   - For each control, enter the operational time for the control output to operate after receiving the sensor signal.
   - The operational time is in unit of seconds.
     (The default value is set in 0s.)
10.2 Setup Backup Schedule

1. [Backup Schedule List]
   - To show the selected time, the repeat cycle and the backup media to be used.
   - Backup will take place in the order of the times set in the schedule list.

2. [Add]
   - To add a time, a repeat cycle and backup media to be used.

3. [Del]
   - To delete an event in the backup schedule list, highlight the event and click on [Del] button to delete it.

4. [Set]
   - To save contents registered in the backup schedule list
   - If the user did not click on [Set] button, contents registered in the backup schedule list are not saved.
10.2.1 Adding Backup Schedule

1 [Number]
   • The number to be added to the backup schedule setup list will be displayed.

2 [Date/Time]
   • Select the start time and the end time of the data to back up.
   • The start time and the end time must be later than the current time.
   • If the user selects a start time and the end time before the current time, they will not be added to the schedule.

3 [Rotation]
   • For setting the date and time of the data to back up, the user can set the cycle - yearly/monthly/weekly/none.
   • When the user selects [None], the backup schedule will be applied to the defined date/time only for one day.

4 [Media]
   • Select the media to save backup data to. The user can select a remote drive through the USB port (a local drive connected to the site) or an IP address.

[Remote Drive]
   • Select [Remote Drive] when backing up data to the site via a USB hard drive. OR
   • To back up the data via an IP address, the PC or the file server at the remote site must have Center software installed and the Backup Server program provided with Center software must be executed. (Refer to Page 65.)
   • To set up remote backup, the user needs to know the IP address of the site where the File Server or PC is running the Backup Server program and any relevant password.
   • Enter the IP address and the password, and click on [Path] button. Then, select the drive to store the backup files.

5 [Add]
   • To add backup setting to the backup schedule list
10.3 Motion Detection Setup

1. **[Camera]**
   - Select the camera to set up.

2. **[Sensing Range]**
   - Click the camera number to setup, and left-click on the image to set/clear the area. (When the sensing range is set, the set area will be displayed in a green color.)

3. **[Recording]**
   - Adjust the color, the brightness, and the contrast of each camera.
     (Adjust each camera to suit the site conditions.)
   - The default is “128” but the value is adjustable between 0 ~ 255.
   - Select “Use Audio” field to save audio data with the images of that camera.
   - “Use Audio” function is supported for only one channel.
   - “Frame” shows the number or recorded frames from that site.

4. **[Motion Detection]**
   - This function is used to adjust the sensitivity of the camera when the camera moves.
     - The sensitivity set by the site will be displayed. When the camera is shipped out from the factory, “Insensible” is set. Five levels of sensitivity are supported.

5. **[Full Motion]**
   - Select [On] button to set the entire screen as the motion sensing range.
   - Select [Off] button to remove the motion sensing range of the screen.

6. **[Beep]**
   - When setting the alarm function, the system will generate a buzzer sound from internal speaker when the camera senses motion within any schedule set up. This feature allows the user to check site conditions.
   - To use Alarm function, select [ ].
     (Only when motion sensed within the recording schedule will generate alarm buzzer.)
   - If “Continuous Recording” had been set for the camera, Alarm function will not operate.
[Quality]
- Set the quality of the image to be saved.
- The higher the value, the higher the quality, but the bigger the saved file size per frame.

[Resolution]
- Set the size of the screen to save.
- Normally “352*240” is suitable for the standard file size. (*640*480” has a high resolution rate, but lower data save rate.)
- The default resolution is 320*240 and different KSR system has different default value.

[Note]
- The resolution and the compression quality are closely related to the saved file size.

[Schedule]
- With [Schedule] menu, the user can set the recording type by hourly slots.
- Select the time slot of the camera from the Recording Option. Then, select the recording type from Option.
- When user selects one or more Recording Options, the existing Recording Options at the selected time slot will change.
- To cancel all recording modes, deselect all check boxes in Option. The selected time slot will become “No Recording” mode.
- The default set up is “Motion & Sensor Recording” which is set for the full 24 hour period.

[Copy To]
- With this button, the user can copy the current camera setting to another camera.
- If the user selects [Copy To] button, a popup menu appears. Select the camera to copy the current camera setting to.

[Warning]
Select [Set] button only after changing values to save and apply new values.
### Continuous Recording
- To continuously record all inputs without any trigger functions.

### Motion Sensing Record
- To record when motion is detected.

### Sensor Recording
- To record when sensor signal is detected.
- It is possible to set the camera and the sensor by time range. If the sensor triggers within the defined time range, images will be saved and any selected relay activated.
- Sensor signals occurring out of the defined time range will be ignored.
- If “Continuous Recording” is selected in the schedule Sensor Recording is not supported.

### Pre Alarm
- If motion is detected, images from 3 seconds prior to that motion will be saved.
  (However, if this function is setup in several cameras, the 3 second period may be less)
- If “Continuous Recording,” is selected in the schedule Pre Alarm is not supported.
10.4 Network

① Site Config
   • The IP address, the gateway and subnet mask information of the currently connected site will be displayed.

② [Emergency]
   • [Center IP Address]: Center IP address as set in the site PC
   • [Center Telephone Number]: The Center telephone number is displayed for emergency connection through a modem.
   • [Transmission Time]: Select the channel transmission time for emergency connection. (0, 30, 60, 90, 120, or 150 seconds)
   • [Alarm Sensor]: Select and set the alarm sensor for emergency connection. If [Alarm Sensor] is checked, images will be transmitted to the PC where Center IP address or Center telephone number is recognised.

③ [Set]
   • To save settings for [Emergency Connection]
   • If the user does not select [Set] button, the settings in [Emergency Connection] will not be saved.
11. Searching Backup Data

Setup

1. [Search]
   • To search backup data from removable drive, insert the backup disk while disconnected from Site and select button. The data saved in local HDD and removable drive will be displayed.

2. [Search Mode Select]
   • The user can select the backup data type to search.
   • Depending on the KSR system installed at the site, a user can choose the Site Type from the list.

(KSR404, KSR304M, KSR204, KSR509, KSR516)
[Site Type]  
- Select the site type from the list of DVR model tabs where the list of the completed backup jobs for that model type are shown.

[Site Code]  
- The site code of the backup data is displayed.  
- If several different sites are listed on the backup log, users can identify the data by the site code.  
- If more than one same site codes are listed, compare the other matching field criteria.

[Data Type]  
- The type of backup that had been made in the site program or center program is displayed.  
- Select “Now screen data save” in setup menu of center program will display “Live” in Data Type field. If “Remote search data save” is selected for backup, “Search” will be displayed.  
- When backing up data in the center PC through “Remote Backup” from the site program, only the site code is displayed and the Data Type is displayed blank.  
- When backing up data to the HDD, the USB memory disk, or USB Zip drive through using “Local Backup” in Site program, “Backup” is displayed.

[Date and Time]  
- The starting time and the ending time that had been set for backup at the site are displayed.

[Standard Time Zone]  
- Displays the time of the back up was carried out at the center.

[Path]  
- The location where the backup data is saved is displayed.

[Search]  
- By clicking on [OK] button, the user can switch back to the search screen where they can search the backup data.

[Note] Backup Data Search  
Once switch back to the search screen, the standard search routine of captured data would follow. (Refer to Page 26.)
12. Data Backup

1. [Backup] button to open a window the back up date as follows:
   The user can select a searched image in magnified screen then either back it up.

[Note] Data Backup
   - The data backup function of Center program is not supported while the user is connected to the site.
   - This function is only applicable to the data already stored in Center as “Live” or “Searched” images.
12.1 Floppy Disk Backup

[Floppy Backup]
- Select the image from the search screen, make into single magnified screen. Then, click on icon to display “Backup” window as above.
- This function is to back up one still image from the search screen. The image is saved in the floppy disk in JPG format to enable users to view the image in general image viewing software products on Windows.
- Only when the user selects [Backup] button while one magnified image is displayed that image will be written to the floppy backup.
- Select [Floppy Backup] from “Backup” window above, and click on [Set] button. Then, the “Watermark Check Program Copy” dialog box will appear.

[Note]
- Select “Yes (Y)” to back up the selected image and Watermark Check program to the floppy disk.
- When backing up data to the floppy disk, only one image can be backed up at a time and Water Mark Check program needs to be saved only once at the beginning.

The image saved in the floppy disk is in JPG format. To check whether the saved data is original or not, Watermark Check program is also saved on the floppy disk.
Using WaterMark Checking Program

The user can check whether the image in JPG format has been altered or not.

1. [WaterMark Check]
   - Execute “WMChecker.exe” that was copied to the floppy disk with the backup image. Then, Watermark Check program will be opened.
   - Click on “File Open” button to select the image saved in the floppy disk. Then, a window where the user can select the file will appear as follows:
• Select the image that had been backed up, and click on [Open] button. Then, the image file name will be displayed as follows:

![Image of Watermark Check Program]

• Click on [Water Mark Check] button for the selected backup image file. Then any alternation to the backup image will be displayed as follows:

![Images of Watermark Check Program with altered and unaltered images]
12.2 Time Assignment and AVI Backup

[Select Camera]
- Select the camera number to back up.

[Backup Type]
- Select "Time Defined Backup" or "AVI Backup."

[Time Defined Backup]
- Select this menu when backing up data that has been backed up already or a large quantity of searched data.
- Since data is in a unique Kodicom format, not JPG, it is not possible to search data using a general image software. In other words, the user must use Center software to search data.

[AVI Backup]
- With this function, the user can change the data in Kodicom system format into AVI format to replay it in Windows Media Player or similar players.
- When backing up data in AVI format, it is possible to back up data from each camera. It is possible to back up maximum 5 minutes of image data at one time.

[Date/Time]
- Set the start time and the end time of backup.

[Backup Media]
- Select the media to save backup data.
- The user can select the HDD, the USB HDD, the USB memory, and the network drive but not the floppy drive.

[Select Compressor]
- When backing up data in AVI, the user can select the compression CODEC type available. (When using a basic CODEC provided by Windows, backup time might be longer. It is recommended to use MPEG4 Video Codec v2 or higher.)
View AVI Moving Image Backup File

1. **[Select AVI Backup File]**
   - To check the file that had been backed up in AVI format, double-click a file saved as "KDB\BACKUP\MonthDateYear-HourMinuteSecond-MonthDateYear-HourMinuteSecond [Camera No].avi". The user can check the saved file using a Windows Media Player or other image viewing software players.

   **[Playing AVI Backup File and Displaying Caption Data]**
   - When replaying the backup file through Windows Media Player, it is possible to display the date, time, day and the camera number. However, in other image viewing players, the user can only check images.

2. **[Note]**
   - Windows Media Player v6.4 or higher is recommended. To display [Caption] information, select "Caption" from "View" menu.
[Note]

- When installing enhanced compression CODEC besides MPEG compression CODEC provided by Windows, the AVI file size to be backed up can become smaller and it is possible to decrease the backup time.

- Depending on the compression CODEC type, the number of selected cameras, and the backup time, AVI backup time greatly differs. (When a basic CODEC provided by Windows is used, backup time might be increased. MPEG4 Video Codec v2 or higher is recommended.)

- When backing up data into an AVI file, audio data is not backed up. Only images are backed up into the AVI file.

- According to the resolution of the stored image data, the resolution rate of the AVI file to backed up changes as follows:

<table>
<thead>
<tr>
<th>KSR Resolution Rate</th>
<th>AVI File (NTSC/PAL Common)</th>
</tr>
</thead>
<tbody>
<tr>
<td>704x480 (704x576)</td>
<td>320x240</td>
</tr>
<tr>
<td>352x240 (352x288)</td>
<td>320x240</td>
</tr>
</tbody>
</table>
13. Backup Server

- The backup server receives data when the data is backed up from the site through the remote drive backup function. The backup server is automatically executed when Center program is executed.

1. [Menu]
   [Change Passwd]
   • During remote drive backup in the site, the user can change the connection password, if necessary.

   [BackupLog]
   • The user can check logs and contents of the data that was backed up by the backup server program through the remote drive backup function from the site.

2. [Backup log history]
   • Through the remote drive backup function, data transmission status of each site - the file size, the time, the IP address of the connected site and the site code - is displayed.
   • Backup Server program supports unrestricted multiple connections, and it is possible to back up all data transmitted from the connected sites at the same time.
13.1 Change Password

[Change Password]
- To be able to back up the data from a Site to a remote drive, a user needs to enter the IP address and the password of the remote location where the Center and Remote Backup Server program is installed. The prompt given above is used to set the password and is further changeable by a user.

13.2 Backup Log

[Backup Log History]
- The transmission starting time, the IP address, and the site code of the data that was remotely backed up from the site are displayed.

[Log View]
- The user can check reception status of transmitted data of the site selected from the [Backup Log].

[Delete]
- This function is to delete the reception list registered in [Backup Log].
  - To delete a registered list, select the list from the [Backup Log] and select [Delete] button.

[X]
- This is to close the [Dialog] window.
1. **[Client Site Code]**
   - The site code of the data that was remotely backed up from the site is shown.

2. **[Client IP]**
   - The IP address of the data that was remotely backed up from the site is shown.

3. **[Backup Start Time]**
   - The transmission start time of the data that was remotely backed up from the site is shown.

4. **[File Transmission Data]**
   - File transmission status of data that was remotely backed up from the site is shown. Transmission starting time, transmission ending time, and the file name are displayed.

5. **[OK]**
   - To close [Log Contents] window
14. Intelli Upgrader

- By using the IP address registered in the connection log of Center program, the user can upgrade KSR system program in the site into a new version from a remote site.

14.1 Loading Intelli Upgrader

1. [Site Information]
   - The IP address, the site code and the password of the site registered in Center program will be displayed. The user can select the site to upgrade.

   [Site Information Entered in Center Program]

2. [Select Circuit Type]
   - Several circuits - LAN, PSTN, ISDN, and dedicated circuit - are supported, and communication through ISDN and the dedicated circuit with the router is possible.
   - For the ISDN, communication through direct connection (dialing method) is possible without using a router unlike the PSTN. (Refer to Page 17.)

   [Execution Window of Intelli Upgrader]

3. [Update Package]
   - Version information and the original folder of the selected update package, and the integrity test result are show.

4. [Package Select]
   - Select the folder where the original copy of the update package program is saved.

5. [Start Update]
   - Start upgrading the program in the site using selected site information and the update package program.

6. [Exit]
   - Exit Intelli Upgrader program.

   [Note]
   - Intelli Upgrader does not support change, deletion or entry of any site information.
14.2 Remote Upgrade

① [Site Information]
- Select the site to upgrade the program.

② [Package select]
- Select the package folder with a new version stored in the hard disk or the folder of the shared network, and select [Confirm] button.

- The new version of the package files must be included in the folder "Update". The folder "Update" can be created by a user if not existed.

③ [Start update]
- Select the site and the package folder to upgrade, and click on [Start Update] button to start upgrading KSR Program in the corresponding site.

[Note]
- When upgrading to a new version using Intelli Upgrader program, upgrading using a floppy disk is not supported. Therefore, it is recommended to copy the program to the hard disk or any large capacity media before beginning the upgrading.

- If there is a package missing in the defined folder or if a file is damaged in the folder, the package will be considered abnormal and the program will not be upgraded.
5. Select [Start Update] button to send the selected update package program to the site and start upgrading.

![Intelli Upgrader](image)

[When the Program is Being Transmitted and Upgraded]

6. After upgrading is completed, press [OK] button to automatically restart the system at the site. KSR program will be restarted.

![Intelli Upgrader](image)

[After Program Transmission and Upgrading are Completed]
Chapter 2. Appendix

1. PSTN/ISDN (without a Router) PPP Setup
2. Manual ISDN Setup without a Router
1. PSTN/ISDN (without a Router) PPP Setup

[PPP Setup using KPPPSetup.exe Program]
- To set up the PSTN, install a modem in Window 98 environment first. Then, open KPPPSetup.exe in the Center Program folder to automatically make PPP setup for the PSTN/ISDN.

[Preparation before Installation]
- To use the KPPPSetup.exe program, the original Windows 98 Second Edition shall be inserted in the CD-ROM drive, or the original files of Windows 98 Second Edition shall be copied to the hard disk.
- In case this program is executed in the system where no modem is installed, the function may not operate properly. Therefore, it is recommended to use the KPPPSetup.exe program in the system with a modem.
- If no modem is installed, it is recommended to install the model and the modem driver file first before using KPPPSetup.exe program.

[Note]
If Windows 98 SE was installed from the CD-ROM, the original CD of Windows 98 Second Edition might be requested during PPP setup. At this time, the user must define the path of the original copy of Windows 98 Second Edition (or the copy folder of Windows 98 in the hard disk or the CD-ROM driver).

[PPP Setup using KPPPSetup.exe Program]
- To set up the PSTN, install a modem in Window 98 environment first. Then, open KPPPSetup.exe in the Center Program folder to automatically make PPP setup for the PSTN/ISDN.

[Preparation before Installation]
- To use the KPPPSetup.exe program, the original Windows 98 Second Edition shall be inserted in the CD-ROM drive, or the original files of Windows 98 Second Edition shall be copied to the hard disk.
- In case this program is executed in the system where no modem is installed, the function may not operate properly. Therefore, it is recommended to use the KPPPSetup.exe program in the system with a modem.
- If no modem is installed, it is recommended to install the model and the modem driver file first before using KPPPSetup.exe program.

[Note]
If Windows 98 SE was installed from the CD-ROM, the original CD of Windows 98 Second Edition might be requested during PPP setup. At this time, the user must define the path of the original copy of Windows 98 Second Edition (or the copy folder of Windows 98 in the hard disk or the CD-ROM driver).
5 [Others]

- In case TCP/IP or telephone connection adapter was already installed, it will not be installed again for this item.
- Close “Network Properties” and “Telephone Connection Server” windows before opening KPPPSetup.exe program.
- Do not execute KPPPSetup.exe program more than two times at the same time. (When exiting the program, wait till the system restart message box appears.)
- Connect to the site from the center to check the connection status.

[Note]

- The user can automatically set up the ISDN only by executing KPPPSetup.exe when the user uses the ISDN through direct connection without using a router.
2. Manual ISDN Setup without a Router

1. [When there are several telephone connection servers for the ISDN modem]
   - Execute KPPPSetup.exe program to complete ISDN setup. However, depending on the ISDN modem, it is necessary to manually setup dial-up connection servers if there are many servers. Manual setup procedure is displayed below.
   - Among several dial-up connection servers, select a dial-up connection server that supports the ISDN line and manually set up the server.
   - Before manually set up the ISDN, execute KPPPSetup.exe first.

2. [Manual Setup]
   - Select “My Computer” and “Telephone Connection Networking.” from the windows background screen.
   - Select “Connections” → “Dial-Up Server” from the menu.
   - Select “Allow caller access.”
• Select "PPP: Windows 98, Windows NT4.0, Internet" from the "Server Type."
• Check "Enable software compression" and "Require encrypted password", and click on "OK" button.
• Check if "Status" field changes into "Monitoring."
(As shown in the above figure, the telephone connection server type changes depending on the ISDN modem installed.)

[Note] Line Speed
• If connection is often released or disconnected or connection is not stable when connection is made through the PSTN, select "Control Panel" and "Modem" and select "Generals" and "Properties."
• In "Modem Properties"
  ➔ Select the maximum speed as "38400" for the PSTN
  ➔ Select the maximum speed as "115200" for the ISDN
• For stability of the communication line, the center and the site modems shall have the same "maximum speed."
(Depending on communication line conditions such as noise and deterioration, connection might be poor.)
The warranty will cover breakdown occurring during normal operation within the warranty period (one year from the purchasing date).

Service fees and replacement part costs will be charged for in the following cases:

1. Breakdown or damage due to user’s carelessness
2. Breakdown or damage by natural disasters
3. Breakdown or damage caused by the user not following instructions and cautions written in the user’s manual.
4. Breakdown or damage due to using power (voltage and frequency) not to specification.
5. If it is necessary to provide consumable parts or disassemble and clean the whole system within the warranty period.
6. Modifications or damages by an unqualified engineer not assigned by KODICOM

If your system is broken after the warranty period, a free repair service will not be provided. If the customer wishes, a repair service will be provided with service fees and replacement part costs.

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**Product Warranty**

<table>
<thead>
<tr>
<th>Product/Model Number</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Serial Number</td>
<td></td>
</tr>
<tr>
<td>Purchasing Dealer</td>
<td></td>
</tr>
<tr>
<td>Purchasing Date</td>
<td></td>
</tr>
<tr>
<td>Warranty Period</td>
<td>One year from the purchase date</td>
</tr>
<tr>
<td>Customer</td>
<td>Name</td>
</tr>
<tr>
<td></td>
<td>Address</td>
</tr>
</tbody>
</table>

- This warranty is not issued again.
- This warranty should be filled out when the product is purchased.
- The customer is requested to present this warranty to get any free service covered by this warranty.
KODICOM

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