

Digital Video Recorder



Operation Instructions Revision 11.03

DW-Pro 9200 Series

Manual Edition 11.03 – November 2003

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IMPORTANT SAFETY INSTRUCTIONS

1. Read Owner's Manual

After unpacking this product, read the owner's manual carefully, and follow all the operating and other instructions.

2. Power Sources

This product should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supply to your home or business, consult your product dealer or local power company.

3. Ventilation

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

4. Heat

The product should be situated away from heat sources such as radiators. Heat registers, stoves, or other product that produce heat.

5. Water and Moisture

Do not use this product near water. Do not exceed the humidity specifications for the product as detailed in the Appendix section in this manual.

6. Cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

7. Power Cord Protection

Power-supply cords should not be routed so that they are not likely to be walked on or pinched by items placed against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

8. Overloading

Do not overload wall outlets; extension cords, or integral convenience receptacles as this can result in a risk of fire or electrical shock.

9. Lightning

For added protection for this product during storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the product due to lightning and power line surges.

10. Object and Liquid Entry Points

Never insert foreign objects into the DW-Pro unit, other than the media types approved by Kaltech Enterprises, as they may touch dangerous voltage points or short-out parts that could result in a fire or electrical shock. Never spill liquid of any kind on the product.

11. Accessories

Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious personal injury and serious damage to the product.

IMPORTANT SAFETY INSTRUCTIONS

12. Disc Tray

Keep your fingers well clear of the disc tray as it is closing. Neglecting to do so may cause serious personal injury.

13. Burden

Do not place a heavy object on or step on the product. The object may fall, causing serious personal injury and serious damage to the product.

14. Disc

Do not use a cracked, deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and product malfunction.

15. Damage Requiring Service

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions.

- When the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- If the product has been dropped or damaged in any way.
- When the product exhibits a distinct change in performance this indicates a need for service.

16. Servicing

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified personnel.

17. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electrical shock, or other hazards.

18. Safety Check

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

Notes on Handling

Notes on Moisture Condensation

■ When shipping the DW-Pro unit, the original shipping carton packing materials come in handy. For maximum protection, repack the unit as it was originally packed at the factory.

Do not use volatile liquids, such as insect spray, near the DW-Pro unit. Do not leave rubber or plastic products in contact with the DW-Pro unit for long periods of time. They will leave marks on the finish.

The top and rear panels of the DW-Pro unit may become warm after long periods of use. This is not a malfunction.

Notes on Locating

Place the DW-Pro unit on a level surface. Do not use it on a shaky or unstable surface such as a wobbling table or inclined stand.

■ When you place this DW-Pro unit next to a TV, radio, or VCR, the playback picture may become poor and the sound may be distorted. In this case, place the DW-Pro unit away from the TV, radio, or VCR.

Notes on Cleaning

Use a soft dry cloth for cleaning.

■ For stubborn dirt, soak the cloth in a weak detergent solution, wring well and wipe. Use a dry cloth to wipe it dry. Do not use any type of solvent, such as thinner and benzene, as they may damage the surface of the DW-Pro unit.

If you use a chemical saturated cloth to clean the unit, follow that product's instructions.

Notes on Maintenance

This DW-Pro unit is designed to last for long periods of time. To keep your DW-Pro unit always operational we recommend regular inspection maintenance (cleaning parts or replacement). For details contact your nearest dealer.

Moisture condensation damages the DW-Pro unit. Please read the following carefully.

Moisture condensation occurs during the following cases.

■ When you bring the DW-Pro unit directly from a cold place to a warm place.

• When you use the DW-Pro unit in a room where you just turned on the heater, or a place where the cold wind from the air conditioner directly hits the unit.

■ In the summer, when you use the DW-Pro unit in a hot and humid place just after you move the unit from an air conditioned room.

When you use the DW-Pro unit in a humid place.

Do not use the DW-Pro unit when moisture condensation may occur.

If you use the DW-Pro unit in such a situation, it may damage discs and internal parts. Remove any CD discs, connect the power cord of the DW-Pro unit to the wall outlet, turn on the DW-Pro unit, and leave it for two to three hours. After two to three hours, the DW-Pro unit will have warmed up and evaporated any moisture. Keep the DW-Pro unit connected top the wall and moisture will seldom occur.



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1.1 Switching to Search	0
District MS Rec MS Rec MS Rec MS Rec MS Rec C(POSITION!) C(POSITION!) C(POSITION!) MS Rec MS Rec MS Rec MS Rec C(POSITION!) MS Rec MS Rec MS Rec MS Rec MS Rec MS Rec C(POSITION!) MS Rec MS Rec MS Rec MS Rec MS Rec MS Rec C(POSITION!) MS Rec MS Rec MS Rec MS Rec MS Rec MS Rec C(POSITION!) MS Rec MS Rec MS Rec MS Rec MS Rec MS Rec C(POSITION!) C(POSITION!) MS Rec MS Rec MS Rec MS Rec MS Rec C(POSITION!) C(POSITION!) C(POSITION!) MS Rec MS Rec MS Rec MS Rec MS Rec C(POSITION!) C(POSITION!) C(POSITION!) C(POSITION!) MS Rec MS Re	<text></text>
2 Password input window appears	3 Enter password and click [OK]
C 1-User C 2-User C 3-User Enter Current Password. Password: Dk Cancel	C 1-User C 2-User C 3-User Enter Current Password Password Cont Dk Dancel
 [Tips] You can enter the setup menu by entering 4-digit patheright hand side. It is impossible to change each operator's registered. We recommend operator1 changes all the password. Please refer to page 69 for changing password information. 	ssword or by clicking numbered buttons located on I password so please do not forget it. I. mation.
	Click this button to switch to [Surveillance mode]
	[search mode]

1.2 Searching by date and time



[Select date and time]
 Clicking on this button displays date, month, year ,hour, and minute.



(



1.3 Selecting Camera



(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.

Cam 1		
Cam 2		
Cam 3		
Cam 4	(101) (1000) (1000)	
Cam 5		
00		

- (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, 6, 9, 10, 13, or 16 split screen.

4 ch	Number of selected Camera	Replay split mode
9 ch	1 1~4	1 split mode (full)
10 ch	1~6	6 split mode
13 ch	1~9 1-:10	9 split mode
16ch	1~10 1~13 1~16	13 split mode 16 split mode

🖙 [Tip]

Screen will be empty if no image was stored from the selected camera.

1.4 Running Search Screen



(1) [Playback search screen]

• You must fix number of camera with date and time before running.

• You can playback with SKIP and DELAY.



Move to selected date and initial data

Playing one picture backward



Stop

- Forward playback
- Playing one picture forward

Move to very last data from selected date

(2) [Panorama]



When searching with one camera, this function consecutively shows you the selected image in 4, 6, 9, 10, 13, 16 split mode.



(3) [Indication for renewal]



This function is to renew a graph indication while searching the recorded data.



(4) [Recording status while searching]

Searching speed will increase if you do not record any image while searching. Click [Stop Recording] if you want to record.

🖙 [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.



(5) [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 DW9200 program.

Ex) 1 ~ 30



6[Delay]

• This indicates the time that takes for one image to output to a monitor.

Ex) 0 (fastest) ~ 50 (slowest)



1.5`Searching Index





[Searching Index]

After selecting the time of search, then press index button to indicate the index of each time, and is possible to search by; recorded order, camera, kind of recording(motion, sensor).



[Searching Option]

It is possible to search the recorded tape by; kind of recording(motion, sensor,prealarm,whole), and by cameras.

• On Search Option window, you could fix number of camera and search by camera by the kind of recording.

2002	.04.29	Y Y 15 4	48		
No	Sensor	Motion	Cam	Time	
0001		8	08	15:48:00:050	
0002		7	07	15:48:00:060	
0003		14	14	15:48:00:080	
0004		11	11	15:48:00:090	
0005		5	05	15:48:00:100	
0006		16	16	15:48:00:130	
0007		8	08	15:48:00:180	
0008		7	07	15:48:00:190	
0009		14	14	15:48:00:210	-
		and the second second	Sa Proven		- 200

Search Option																		
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16		N
Prealarm		02		04				08								16		N
Sensor		02	03	04	05	06		08		10			13		15	16	A	Ν
Motion	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16		Ν
[0			. 0	un ti					~~	~ "			- h '				1-1	
[Sear	cn	Ing	0	рι	IOL		חכ	rei	gui	ar	se	an	cn	Ing) II	100	ie]	

Motion 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 A N

[Searching Option on index searching mode]

reference]

- The data does not appear when you select index button for data that was recorded with versions before of DW9200 v4.030 , and is only possible when recorded with iv4.030 version.
- Index searching is possible when a data of over a day is stored after DW9200 v4.030 version is installed.
 (Only v4.0303 and higher versions support index searching.)

														E									
		00	01	02	03 0	4 05	6 06	(3		09 1	0 11	12	13	14	15	16	17	18	19 2	0 21	22	23	
12	Cam 1																						
	Cam 2	-																					
	Cam 3	-													_							-	
	Cam 4		-		_																		
0	C C						-		_							-		_	-			-	
	Starte da	199																					

(3) [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 .

00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23

[When Summer Time is not applied]

00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23

[When Summer Time is applied]

[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 starring time is 02 hour, then it its fixed from 02 hour to 03 hour, and closing time is fixed from 03 to 02.

1.6`Book Mark



() [Bookmark]

This function is to register the location of currently searched image. Registered image from the bookmark is possible to be moved at once.

2 [Bookmark list]

[Time information]

• This function shows the image location on a bookmark while searching.

• When adding to the bookmark while searching, the image of your preferred time, will register date and time from the [Bookmark list] respectably.

[Description]

• You can give simple explanation about the image location that is registered to the bookmark.

• If you do not input description, identical information with [Time information] will automatically inputted.

(**3** [Add]

• This function is to add the image location to the bookmark list while searching.

• Image time will be added to the Bookmark list if you select [Add] button.

(4) [Delete]

• This function deletes the image location that is registered to the Bookmark.

• In order to delete the registered image location, select the delete time from the Bookmark list and then click [Delete].

(5) [Delete all]

• This function deletes all of the image location.

• [Delete all] button deletes all of the image location at once.

6 [Goto]

• This function moves search date and time to the location you wish to put the image.

• Select [Goto] after selecting the time you wish to move in order to move to the right location to put the image.

⑦ [Ok]

• Information will be applied after adding/deleting the image location from the Bookmark.

• Selecting [Ok] button will end the Bookmark function and it will go back to search screen.

1.7` Extension/Reduction and Movement of Search Screen



(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 (K-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.

1.8`Improving image quality of Search Screen



(1) [Image Improvement]

[Brightness]



This is to adjust brightness of stored image



[Contrast]

This is to adjust darkness of black and white shade.



[Smooth & Sharpness]

This function smoothens out the roughly stored image and also adjust blurry image.



[Noise reduction]

This function is to get rid of noises for stored image.



[Deskew]

This function is to flat out and rotate the image for better view if the image was recorded from a twisted view.

[Gamma correction]



This function is used when a value between

brightness and contrast need to be adjusted. This is especially used when the color of stored image looks unusual.

[Rotation]



This function consecutively rotates direction of

the stored image from 90, 180, 270 degree. Also, the image can be flipped from the rotated angle.

[Restoration]



This function is to return the controlled image (by each button) to the original condition.

🖙 [Tip]

Controlled image from searched image is possible only with one camera.

(Searching multiple cameras at one time makes impossible to control image so click stop button and then choose only one camera to adjust the image.

1.9 Audio Setup



Audio play	×
Audio play	1 9 2 10
	3 11 4 12 5 13
- Low	6 14 7 15 8 16
<u> </u>	<u>C</u> ancel

(1) [Audio Play Configuration]

• When you click the 'Audio Play' icon. The audio play configuration window like left appears. Select your settings for audio play back.

- Plays image with the recoded voice.
- Check on "Enable" on 'Audio Play' item.
- When searching, click on "Audio Setup" button and select the channel with recorded audio.
- · Adjust the volume properly using 'Volume control'.

🖙 [Tips]

• When playing audio, select the channel with recorded audio from "Audio Play Configuration" window.

If the corresponding channel was not selected in the "Audio Play Configuration" window, audio is not played although you play images with audio.

• To align Sync of video and audio during initial search, playing may be stopped temporarily for 1 ~ 3 seconds. However, this is not an error.

• Audio play is supported only for forward search. Audio play is not supported for other searches - backward search, cut-by-cut search, etc.

• While audio is played, Skip and Delay functions are not applied.

• For audio configuration, refer to Page 70.

• When changing the mode from Monitoring Mode to Search Mode, mic audio will become automatically mute. (When changing to mode to Monitoring mode, the original state is recovered.)

• Audio play is not supported when search is made for more than 9 channels. (Audio play is supported only for 1 ~ 9 channel search.)

1.10 Printing searched data



(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.)

int		?
Printer		
<u>N</u> ame:	HP DeskJet 850C	Properties
Status:	Default printer; Ready	
Туре:	HP DeskJet 850C	
Where:	LPT1:	
Commen	t	
Print rang	e	Copies
الغ 💽		Number of <u>c</u> opies:
C Page	s from: to:	11
C Seler	tion	
<u></u>		
		OK Cancel

When the system is not setup properly for Printing, below error might appear.



☞ [Tips]

Installing printer

- 1. Click on Start \rightarrow Setup \rightarrow Printer from the background screen.
- 2. In Printer's window, select and click Add Printer.
- 3. In Add Printer window, click Next.
- 4. If the printer is connected to main body, make sure [Local Printer] is selected and then click [Next].
- 5. Click [Available on the disk] or select print driver from a box that looks for the name of its manufacturer and model.

6. When the driver is installed according to the screen, print setting is completed.

Printed image size

1. When basically printing, image size will depends on the zoomed out size on the screen

If it does not print

1. Check if printer is fixed on Windows.

2. If it still doesn't print after checking, check the cables and electric plugs

1.11 How to backup data



[Backup]

(Ŀ

When you click on this button on the left, following backup window will appear

i ype			
Floppy backup	Time backup	C AVI b	ackup
Date/Time		BackupMedia	
Start		Selected media	
Friday , March C	7,2003 💌	Select me	dia 📔
9:24:00 AM			
		Format CDR/CDRW	Incd Eject
:nd			
Friday , March C	7, 2003 👻 🛛	Option	
9:25:00 AM	-	Delete old data wh	en free space
-		Priority	
- D I			
Split by	Cajculate	Backup after precede	nt backun 💌
Split by	Calculate Size	Backup after precede	nt backup 💌
Split by	Cajculate Size	Backup after precede	nt backup 💌
Split by	Calculate Size	Backup after precede	nt backup 💌
Spik by 1M 2amera Camera Camera Camera Camera Camera Camera	Calculate Size	Backup after precede	nt backup 💌
Spik by IM Camera Camera 01 Camera 06 Camera 01 Camera 06 Camera 11 Camera 1	Calculate Size	Backup after precede a 03 Camera 04 a 08 Camera 09 a 13 Camera 14	nt backup
Spik by IM Demera Camera 01 Camera 05 Camera 11 Camera 16	Cajculate Size hera 02 Camer hera 07 Camer hera 12 Camer	Backup after precede a 03 Camera 04 a 08 Camera 04 a 13 Camera 14	nt backup 💌
Spit by TM Camera Camera Camera 01 Camera 05 Camera 16 Camera 16 Camera 16 Steet Compressor :	Calculate Size	Backup after precede a 03 Camera 04 a 08 Camera 04 a 13 Camera 03 a 13 Camera 14 Microsoft Video 1	nt backup 💽

Backup onto Floppy Disk

Floppy backup	C Time backu	p C AVI b	ackup
Date/Time		BackupMedia	
tart		Drive : A:	
Friday , March	07,2003 💌	Select me	edia 🛛
9:24:00 AM	<u>×</u>	Format CDB/CDBW	Incd Fiect
nd			
Friday March	07 2003	- Option-	
i mag , maior		Delete old dete wh	en free soore
9:25:00 AM	× v	insufficient	icit noc space
Split bu		Priority	
11/	Calculate Size	Backup after precede	nt backup 🔻
		1	
°emore-			
Camera (11 🗖	Camera (12 🗖 Came	ra 03 🗖 Camera 04	Camera 05
	Camera 07 Camera	ra 08 🔽 Camera 09	Camera 10
	Camera 12 Camera	ra 13 🔽 Camera 14	Camera 15
Camera 16			

(1) [Backup to a Floppy disk]

• While you are searching for recorded data, select the image to backup and click this icon.



Then "data backup" window will appear.

• If you click on the Backup button while one image is zoomed in, you will be able to select the floppy disk drive and other drives such as HDD, CD-RW, the movable drive, and the network drive.

• This is to back up images one by one. When saving images in the drive, images are saved in BMP or JPEG format. Therefore, you can easily view images using normal image software products.

• Select the backup drive from the "Backup" window above, and click on the Confirm button.

Then, the "Watermark Checker Copy" box will appear as follows:

watering	пк спескег сор	y	
٩	Do you want wat	ermark check p	program?
	Yes _	No	

• Click on "Yes" to back up the selected/zoomed-in image in the drive for which the watermark check program has been selected.

• However, you can back up images in the drive only one by one. You need to save the watermark check program only once at the beginning.



Images are saved in the drive in BMP or JPEG format. To check if saved images have been altered, the watermark check program is saved in the drive as well as the corresponding image.

Using watermark checking program

Run the watermark check program by running the file 'WMChecker.exe' on the floppy disk. The following image will appear in BMP, JPG format

🚜 Watermark Check Program	×
File <u>O</u> pen	
	_
Water Mark <u>C</u> heck	
Source Mark :	
Result Mark :	
<u>Exit</u>	

(1) [WaterMark check]

• Execute "WMChecker.exe" that has been copied to the drive with the backup image. Then, the watermark program will appear as shown above.

• To select the image saved in the drive, click on "File Open" button. Then, the following window will appear:

Open						? ×
Look jn: 🛃) 3½ Floppy (А:)		- 🗈	<u></u>	<u> </u>	
20020101 20020101	-11-103314 2.jpg -11-104809 3.jpg					
	b			_	F	_
File <u>n</u> ame:]				<u>O</u> pen	
Files of <u>type</u> :	Bitmap File(*.bmp)), Jpeg File(*.jpg	g;*.jpeg)	•	Cance	<u>ال</u>

• When you open the file name, a window below will appear. Select 'watermark check' to verify the image.

	File <u>O</u> pen	
A:\20020101-11-103314 2.jpg		
	Water Mark <u>C</u> heck	
Source M	lark :	
Result M	ark :	

• Once verification is completed windows similar to those below will appear.

Watermark Check Program	×	Watermark Check Program
File <u>O</u> pen		File <u>O</u> pen
a:\20010804-03-095559 2.bmp		a:\20020101-11-103314 2.jpg
Water Mark <u>C</u> heck		Water Mark Check
Source Mark :		Source Mark :
8381897F7D857A7C******************		D465F43D7EF0788F******************
Result Mark :		Result Mark:
D3E8E6523DFC2833***********************************		D465F43D7EF0788F****************
Watermark Corrupted!!		Watermark Approved!!
<u> </u>		<u> </u>

Corrupted image

Uncorrupted image

Large Media Backup(setup time)

Date/Time	4 BackupMedia
Start	Drive : C:
Friday , March 07, 2003 💌	Select media
8:24:00 AM	
,	Format CDH/CDHW Incd Eject
Friday , March 07, 2003 💌	Option
9:25:00 AM	Delete old data when free space insufficient
	Priority
Split by Calculate	
1H 1M	Backup arter precedent backup
	Camera US 📘 Camera U4 📘 Camera Us
Camera 01 Camera 02 C	Comora 09 El Comora 09 El Comora 10
Camera 01 Camera 02 Camera 06 Camera 07 Camera 11 Camera 12	Camera 08 🔲 Camera 09 🔲 Camera 10
Camera 01 Camera 02 C Camera 06 Camera 07 C Camera 11 Camera 12 C	Camera 08 🔲 Camera 09 🔲 Camera 10 Camera 13 🔲 Camera 14 🔲 Camera 15

(1) [Setup time for backup]

• Select this function when you need to backup a lot of data like HDD, CD-RW, Removable Drive, Network Drive, Remote IP Drive along with floppy disk.

• This is not a normal format like BMP or JPG but this is an unique DW9200 S/W data. Therefore, you can not check the data using the normal image so you have to use it with the software from the place you bought it from.

[Date/Time]

Select start and end time of backup data.

• Time has to be setup before the current time. If the time was set after the present time, backup will not work when you select [OK] button.

[Data size]

• If you want to check data size from selected backup time, select 'Calculate Size' button and below window will appear.



(4) [Backup Media]

[Select media]]

Select backup data from its storing media.

• You may select HDD, CD-RW, Portable drive, Network Drive, Remote IP Address except floppy disk (Refer to page 76).

[Format CDR/CDRW]

• This is used when you select CD to backup data.

• When the CD has not been formatted, format a CD using Direct CD program and InCD program. Select [Format CDR/CDRW] button to format CDR/CDRW media using Direct CD program and InCD program. (Refer to Page 91 and 95.)

[Tips]

To format a CD, Direct CD program and InCD program shall exist on Windows. (When formatting a CD using InCD program, only CD-RW media is supported.)

Backup		×
Type C Floppy backup	 Time backup 	C AVI backup
Date/Time Start Friday , March (8:24:00 AM End Friday , March (9:25:00 AM Split by	17, 2003 ¥ 17, 2003 ¥ 17, 2003 ¥ 17, 2003 ¥ 50 Option 23 Cajculate Size	upMedia a : C: Select media hat CDR/CDRW Incd Eject h Delete old data when free space sufficient ity kup after precedent backup
Camera Camera 01 Can Camera 06 Can Camera 06 Can Camera 11 Can Camera 16 Select Compressor :	neta 02 🔽 Camera 03 neta 07 🗖 Camera 08 neta 12 🗖 Camera 13	Camera 04 Camera 05 Camera 09 Camera 10 Camera 14 Camera 15 Camera 15 Camera 1 Came

(5) [Option]

[Delete old data when there is not enough space]

• This function will record data after deleting the old data when there is not enough storage space to backup the data.

[Selecting Priority]

• Select the priority of backup data.

• Wait until the processing work is done; start the backup after current backup and waiting data have finished their backup.

• Start after the current work is done; when current data's backup is completed, do not back up the waiting data if the other data was selected first.

6 [OK]

• Backup will start from the designated backup media drive when you click [OK].

Backup onto CD-R/CD-RW

Local	drive	C Remote drive
Path	🔊 g:	IP address
	i ⊂ : i ⊂ d:	
		Password
		Drive : Select drive

(1) [CD-R/RW backup]

• Select [Select media] from "backup media" window.

• From "Select backup media" window, select [OK] button after selecting CD-RW drive which you will backup.

• You need to format CD in order to backup CD-R/CD-RW from DW9200 program.

• When the CD is unformatted or failed to Backup, please follow this step to Format the CD. (Refer to page 91, 95)

• To back up data in CD-R/CD-RW or to format a CD, $\underline{\text{Direct CD}}$ S/W and $\underline{\text{InCD}}$ S/W shall exist on Windows.

(When formatting a CD using InCD program, use only CD-RW media.)

• If the CD is formatted, follow the same way with backup to HDD, or removable drives (DVD-RAM, ZIP, MOD, RB)

AVI video backup

C Floppy backup	C Tin	ne backup	1	O AVI E	packup
Date/Time		3 B	аскирМе	dia	
Start		ı	Drive : C:		
Thursday , March	06, 2003	-		Select me	edia
9:24:00 AM	1	9 1			
1			Format Cl	DR/CDRW	Incd Eject
End					
Friday , March	07, 2003	- ₋ 0	ption		
9:24:00 AM	10	= I	- Delet	e old data wł	nen free space
,	-		Prioritu	loient	
) Split by	Calculate		nony		
24 H 💌	Size		Backup	after precede	ent backup 🔄
Camera					
Camera 01 C	amera 02	Camera ()3 🗖	Camera 04	Camera 0
Camera 06 C	amera 07	Camera (08	Camera 09	Camera 10
Camera 11 C	amera 12	Camera '	13 [Camera 14	Camera 15
L Camera 16					

(1) [AVI video backup]

• It plays a role of converting data in AVI and backing up it, so that data format specific to DW9200 system may be played by Windows media player or other image players.

• Data backup is available to HDD, CD-RW, mobile drive, network drive and remote drive using IP address except for floppy drive.

• To back up data in AVI format, it is possible to back up image data for each camera.)

(2) [Date/Time]

• Select the time to back up data in AVI format.

(3) [Backup media]

[Select media]

• Data to be backed up selects a backup media.

• Data to be backed up may select HDD, CD-RW, mobile drive, network drive and remote drive using IP address except for floppy drive.

(Refer to Page 76)

[Format CDR/CDRW]

• It is used when a user selects CD as backup media.

• When the CD has not been formatted, format a CD using Direct CD program and InCD program. Select [Format CDR/CDRW] button to format CDR/CDRW media using Direct CD program and InCD program. (Refer to Page 91 and 95.)

🞯 [Tips]

To format a CD, Direct CD program and InCD program shall exist on Windows. (When formatting a CD using InCD program, only CD-RW media is supported.)

(4) [File Saving Unit]

• When you back up file in AVI format, it is possible to save data by time or save data in one file.

• It is possible to select several cameras at the same time and back up data in AVI format for each camera.



C Floppy backup	○ Time ba	ckup 💿 AV	l backup
Date/Time		- BackupMedia	
Start		Drive : C:	
Thursday , March	06, 2003 💌	Select	media
9:24:00 AM	-		d
End			
Eridau March	07 2003 -	- Option	
Thay , main		- Delete old data v	when free space
9:24:00 AM	÷	insufficient	
Split by		Priority	
24 H 🔻	Calculate Size	Backup after prece	dent backup
) Camera			
Camera 01 🗖 C	Camera 02 🔲 C	amera 03 🔲 Camera 04	🛛 🗖 Camera (
Camera 06 🗖 C	Camera 07 🔲 C	amera 08 🔲 Camera 09) 🔲 Camera '
🗖 Camera 11 🔲 C	amera 12 🔲 C	amera 13 🔲 Camera 14	Camera -
Camera 16			

(4) [Select Camera]

• A user selects the number of a camera of which AVI is to be backed up.

• Selection of several cameras per one time is possible, and simultaneous backup into AVI by cameras is possible.

(5) [Select Compressor]

• In case of backup into AVI, a user may select available codec.

🖙 [Tips]

It is not possible to back up audio data that

had been saved by the audio board.
🖙 [Tips]

• When other advanced compression codecs then the basic Mpeg compression codec provided on Windows were installed, AVI files are saved into smaller sizes, the compression quality is advanced and the time for backup is reduced..

• According to types of compression codecs, number of selected cameras and set backup time, AVI backup time may differ significantly.(When the basic codec provided on Windows is used, codecs of Mpeg4 Video Codec v2 over are recommended.)

• In case of backup into AVI files, audio data are not backed up but only video data are backed up into AVI files.

• According to the resolution of saved video data, resolutions of AVI files into which the data are backed up are as follows.

	DW9200 resolutions	AVI files(NTSC / PAL)
-	640x480(768x576) 320x240(384x288)	320x240
	160x120(192x144)	160x120

Backup process status

Started		×
		75.7%
Elapsed Time	00:00:03.500	
Estimated Time Left	00:00:01.126	

Once a user doubleclicks an animation icon, appearing on upper part of a window during the process of AVI video backup, he can check backup process of data being backed up and a process rate, an elapsed time and a remaining time.

Viewing AVI video backup files



(1) [Select an AVI video backup file]

 In order to check a file backed up into AVI video image, once a user doubleclicks the file, "

[Play of AVI video backup file and its caption]

(2) When a user plays an AVI video backup file using a basic media player supported on Windows, display of caption information on date, time, day of the week and the number of a camera and so on is available while only display of video image is available to other media players.



🖙 [Tip]

Windows media players of at least v6.4 over are recommended, and when the caption information is not displayed, a user check the caption information by selecting "Caption" in [View].

1.12 Close Search Screen and Transfer to Detection Mode



(] [End Search]

0

Click End button if you want to convert to [Detection mode]

🖙 [reference]

- In order to end [Search Mode], you must first press
 [Stop] button, and does not stop by just pressing [End] button.
- If Search Mode is closed by [End] button, it transfers to [Detection Mode].

2. Display mode setup

2.1 Surveillance screen(default)4	1
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2.3 Selecting split screen43	3
2.4 Changing between Pan/Tilt & surveillance mode44	4
2.5 Controlling Pan/Tilt mode45	5



2.1 Display Mode (default)



- [Selecting split screen] Select the screen layout you wish to view.
 - Up to 16 live screens can be viewed.
 - (1,4,6,9,10,13,16 or full screen mode is available)
 - displays 4 screens by rotating
 - You can exit from the rotation mode by clicking one channel.
 - fill screen mode.
- (2) Recording status of each camera : Red 'Rec' for continuous recording; blue M Rec for motion-detection recording ; no mark for none recording
- (3) Displays voice recording status. "AUDIO" in red for continuous recording, "AUDIO" in blue for motion recording and no mark when voice recording is disabled.

- (4) Displays PAN/TILT status. If it is set as PAN/TILT camera, PAN/TILT in green and , 'Motion Tracking' will be displayed on the bottom of the screen. "No Use" when PAN/TILT is not activated. ***Not Shown**
- (5) [Display of Camera/Sensor/Control]
 - Displays stored condition of each camera, sensor, control.
 - Each control could be controlled manually if button is pressed.
- (6) Display present date and time
- (7) [Search]
 - searches restored data
- (8) [Setup]
 - · Set up system environment and functions
- (9) [Quit]
 - · Exit the program

2.2 Password setting





Default screen(display mode)

2 Password input window appears

	×
• 1-liser C 2-liser C 3-liser	
Enter Current Password.	
	789
Qk <u>C</u> ancel	

(3) Enter password and click [OK]



🖙 [Tips]

- You can enter the setup menu by entering 4-digit password or by clicking numbered buttons located on the right hand side.(Secret number is not installed when product is purchased.)
- It is impossible to change each operator's registered password so please do not forget it.
- We recommend operator1 changes all the password.
- Please refer to page 69 for changing password information.

2.3 Selecting split screen



- (1) [Split screen selection]
 - Select the camera presently in surveillance. It can display up to 16 live screens.
 - (1,4,6,9,10,13,16 split screens are possible)



(2) Displays the status of recording. When there is activity on the channel the button for the channel flickers.

🖙 [Tip]

Left clicking gives you full screen mode. You can zoom the image by left click up to 7 levels on DW9200.

[Full Screen]

- Clicking [full screen button] gives you only split screen without menu.
- right click brings you back to previous mode.



[Maximizing 1ch]

- On any split screen mode left click on selected channel gives it to you in full screen.
- If you click the full screen channel again, you'll go back to the previous mode.

2.4 Switching PAN/TILT & Surveillance mode O



How to set up

(1) Left double click will magnify the screen and right click on the channel bring you to PAN/TILT mode. (Only when PAN/TILT camera is used)



🖙 [Tips]

- DW9200 system starts with surveillance mode automatically. Rebooting due to the power failure or disaster starts with split screen surveillance mode.
- DW9200 reboots by itself when there is any program or hardware failure. You don't need setup to do it.

2.5 PAN/TILT Control



- 1 It indicates present date and time.
- 6 PAN/TILT control

Adjusts FOCUS

Adjust ZOOM IN /OUT

(not applicable to Auto Focus Lens)

(7) [FOCUS]

8 [ZOOM]

(9) [DIS]

· Adjust the camera's direction to up, down/ left, and right

• Switch to surveillance mode from PAN/TILT mode.

(2) [POWER]

- Turn off or on the camera
- 3 [WIPER]
 - Operate camera wiper.
- (4) [LIGHT]
 - Turn on or off camera light.

5 [TOUR]

Turn on or off AUTO PAN/TILT function of camera.

[reference]

- You need the same number of RX RECEIVER(HRE-301 or HRE-302) to control PAN/TILT camera
- Some RX Receivers need additional interface.

45



DW9200 Site(V4.100)

Function Guide

DW9200



2 DW9200 Function Guide

1. Configuring Program

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1.1 Display Mode (default)



- [Selecting split screen] Select the screen layout you wish to view.
 - Up to 16 live screens can be viewed.
 - (1,4,6,9,10,13,16 or full screen mode is available)
 - displays 4 screens by rotating
 - You can exit from the rotation mode by clicking one channel.
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- (3) Displays voice recording status. "AUDIO" in red for continuous recording, "AUDIO" in blue for motion recording and no mark when voice recording is disabled.

- (4) Displays PAN/TILT status. If it is set as PAN/TILT camera, PAN/TILT in green and , 'Motion Tracking' will be displayed on the bottom of the screen. "No Use" when PAN/TILT is not activated.
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- (7) [Search]
 - searches restored data
- (8) [Setup]
 - · Set up system environment and functions
- (9) [Quit]
 - · Exit the program

1.2 Password setting





Default screen(display mode)

2 Password input window appears

	×
€ 1-User € 2-User € 3-User	
Enter Current Password. Password	
	789
Qk <u>C</u> ancel	

(3) Enter password and click [OK]



🖙 [Tips]

- You can enter the setup menu by entering 4-digit password or by clicking numbered buttons located on the right hand side.(Secret number is not installed when product is purchased.)
- It is impossible to change each operator's registered password so please do not forget it.
- We recommend operator1 changes all the password.
- Please refer to page 65 for changing password information.

1.3 Hardware setup

Camera Setup

Transmere setup Motion se Camera setup Name Se Setup Name Se Op Gall Op POS POS 2 I 2 3	stup Schedule setup	P/T Type	Modem setup Sensor set Setup	Site information up NC/NO	Password setu
Camera setup Name Setup Setup Name Setup D Gark 1 POSINE/V2 2 IZ 3	ansai [Molion]	Р/Т Туре Б МКа 6 -	Sensor set		
Setup Name Setup 1 1 Posi 1 2 2 1 Posi 1 2 2 1 Posi 1 2 3	(3) [Motion]	F/T Type	Setup	NC/NO	
D2 Gast 1 POSIND 2 2 I > 3 POSITION3 3	3_4_	5 6 -		MC +	
2 POSITION3 3				프 - *	Use alarm
3 POSITION3 3		NK-97 50 💌	F 2	NC C	Not use alarm
		NK-97 SD -	3	NC	1
V 4 POSITION4 4		KRE-301 RX 💌	I I₹ 4	NC Re	cording time by
S POSITIONS 5		KRE-301 FX	₽5	NC	
G POSITION6 6		KRE-301 FDC -	9 1	NC	
		KHE-SUT FOC		NC	1 sec 💌
IN 8 POSITIONS 18		RRE-GOT FOC	- 1×8		115
Setup Name 1 1 2 2 3 3 4 4	Auto ON/OFF 00 v : 00 v ~ 00 00 v : 00 v ~ 00 00 v : 00 v ~ 00 00 v : 00 v ~ 00	tme Sensor	Working sec 0 Sec 0 Sec 0 Sec 0 Sec	Select time(Sec 1 Camera 1 Camera 2 Camera 3 Camera 4	▼ ▼ Camera 9 ▼ Camera 10 ▼ Camera 11 ▼ Camera 12 ▼ Camera 12
F5	00 • 00 • 00		0 Sec	Camera 5	Camera 13
□ 6	00 • : 00 • ~ 00	▼ 00 ▼ 0	0 Sec	Camera 7	Camera 15
Γ7	00 - 00 - 00	▼ 00 ▼ 0	0 Sec	🔽 Camera 8	🔽 Camera 16
F 8	00 • : 00 • ~ 00	• 00 • 0	0 Sec -	Synchronize 0	SD Date/Time
preserve die die					

(1) [Use]

•Check on the camera 🗹 to use.

- (2) [Name]
 - Type the camera title here,
 - Ex) Parking lot, Main Entrance, etc.
 - · You can type upto14 characters.

(3) [Sensor]

• DW9200 has a motion detection function. You can attach external sensors from 8 to 16.

 If the related external sensor starts working, connected camera starts recording.

• Input the sensor number you wish to use (Sensor number that's related with each camera).

• If there are a few cameras, you can separate by comma.

• This is not required on motion detection mode.

Ex) If you want to store an image from number 1 camera while number 2 and number 3's external sensor is working, input "2,3" on number 1 camera's "Link sensor" list.

- (4) [Recording with Motion Detected channel]
 - When a camera detects any movement, system records it's linked channel as well.

• From "Recording Schedule" tap, record setting must be under Motion Detection mode for inputted specific camera number. If it is set on 'Continuous recording', this function is not activated.

 Input camera number of related camera that will detect and record related motion at the same time.

Ex) When camera number 1 and number 2 capture any motion and you also want camera number 3 to record it as well, just input "1,2" to "Related Motion" blank space under camera number 3.

(5) [P/T]

• Check here if the camera is PAN/TILT type.

· Selected camera has 'Pan/Tilt' on top of the screen.

(6) [Type]

• Model type of Rx-receiver and Speed Dome Camera that are compatible with DW9200 system is stored in the scroll box. Select the model that is identical to the one you are using.

External Sensor Setup

Au	idio setup	System a	etup	Motio	n tracking se	stup .		Storage	e setup	E-Map Setup
Hardwa	are setup	Motion setup	Schedule setup	S	creen divisio	n	Modem	setup	Site information	Password setu
Camera	a setup							Sensor s	etup	\frown
Setup	Name.	Sensor	[Motion]	P/T	Тур	8		Setup	NC/NO	3
• 1	Garbong	1			NK-97 SD	¥.		(1) 1	NC -	🔍 Use alarm
₹ 2	POSITION2	2			NK-97 SD	<u>.</u>		2 1	2NC -	C Not use alarm
₹ 3	POSITION3	3		E	NK-97 SD	*		N 3	NC	
₹4	POSITION4	4			K.RE-301	RX 💌		₩ 4	NC	Recording time by
75	POSITION5	5		<u>_</u>	KRE-301	RX T		₽ 5	NC	
7 6	POSITION6	6		F	KRE-301	RX T		F 6	NC	4
7	POSITION7	7		E	KRE-301	FOC Y		F 7	NC	1 sec 💌
8	POSITION8	8			KRE 301	R06 <u>*</u>	-	I 2 8	NC -	
								Sec Sec Sec Sec Sec	I Camera : I Cam	2
		100						5	ve Clos	e

(1) [Use]

• Click the check box 🔽 so the external sensor quantity and input sensors are the same.

(2) [NC/NO]

- Choose the sensor type.
- Clicking will change to [NC]<-> [NO]

([NC] is set to default)

- NC : Normal Close Type Sensor
- NO : Normal Open Type Sensor
- (3) [Choosing Beep Sound]

• Beep sound will occur when a signal is detected within selected time. Speaker that is located inside the system will let you know the situation on site by the sound.

- · Click on [Choose Beep Sound] if you wish (Beep sound occurs only within the time you set).
- Beep sound will not be operated when a corresponding number of recording schedule is set to "Continuous Recording".

(4) [Sensor and Recording Time]

• When a sensor is activated and give out the signal, it will set the recording time of related camera's image.

• Recording time of related camera's image is up to 60 seconds.

Control Setup

Hardwi	are setup	Antion setup	Schedule setup	MOD	on traciting Screen div	ision 1	Moder	storage	setup Site infr	mation	E-Map	setup word setu
	, and the second se	and the second s	o en como venap		a a lo a lo a lo a lo		meach	Canada	dun.		1	
aniera etup	Name	Sensor	[Motion]	P/T		upe:		Colum	NCAID			
7 10	Garbong	1		E	NK-97	SD V	4		NC	E	G Han alare	8
7.2	POSITION2	2	<u> </u>	-	NK-97	SD Y	1	17 2	NCI		Ose alam	
73	POSITION3	3	<u> </u>	20	NK-97	SD +		F 3	NC		Not use a	laim
7.4	POSITION4	4	<u> </u>	È.	KRE-3	ILEX V		17 4	NC		Recording to	e bu
7.5	POSITIONS	5	<u> </u>	F	KRE-3	IT FOR T		175	NC		sensor, motio	n
7.6	POSITIONS	6	<u> </u>		KRE.3	ILEX T		E E	NC			
77	POSITION7	7	<u> </u>	F	KRE-3	IT FOC		2	NCL		1 rec	-
7.8	POSITIONS	8	<u> </u>	E.	KRE-3	ILEX Y	1.4	R 8	NC	-1	11 sec	-
	2					4	5	Sec Sec Sec Sec	য য য য য য ০০০০০০০০০	iamera (iamera (iamera (iamera (iamera (iamera (3 17 Cam 4 17 Cam 5 17 Cam 6 17 Cam 6 17 Cam 8 17 Cam 8 17 Cam	na 11 na 12 na 13 na 14 na 15 na 16
F 8		00 -] : [00 💌 ~ [0		00 -	0	0	Sec 🚽	Syni	Clos	ost Date/	lime

(1) [Use]

Check 🔽 the output number you want to use.

(2) [Controller name]

- Enter controller name to use.
- Can be extended up to 14 characters in English.

Ex) Siren, lamp, alarming lamp and etc...

(3) [Automatic ON/OFF]

• You can enable control output only within desired time by choosing this function.

• It only works within desired time and the default time is from 00:00 to 24:00.

(4) [Linked Sensor]

• If you want the controller to work automatically, enter the sensor to connect to it.

Ex) When operating sensor number 2 while sensor number 1 is operating, input "1" under related control output list.

(5) [Working time]

• Enter the working time of control output in second. (The maximum is 255 sec and default is set to 0 sec).

External Monitor

External monitor can be used with home TV or normal analog monitor to receive image from DVR as well.

Aud Hardwar	dio setup re setup	System Motion return	setup Schedule setup	Motie	on tracking Screen divis	setup ion 1	Moder	Storage	setup Site init	umatio	E-Map Setup
Comme		motion setup.	ouneouse setup	1.2	o di deni divis	NOC 1	modeli	Canada	one me		in prassinoid de
Caniera : Setup	Name	Sensor	[Motion]	P/T	T	,pe		Setup.	NCAND		
F 11	Ganbong	1		Г	NK-97 S	D Y	4	F 1	NC	E	(€ Lize alarm)
₹ 2	POSITION2	2		Г	NK-97.5	D Y	-	₽ 2	NC		C Nature slam
₹ 3	POSITION3	3		Π.	NK-97 S	D 👻		₩ 3	NC		· Not use alarm
74	POSITION4	4		Г	K.RE-30	RX .		₩ 4	NC		Recording time by
¥ 5	POSITION5	5		Г	KRE-30	RX *		₩ 5	NC		sensor, motion
76	POSITION6	6		Г	K.RE-30	RX 🔻		F 6	NC		
7	POSITION7	7		Γ.	KRE-30	FOX Y		₽7	NC		1 sec 💌
v 8	POSITION8	8		Π/	KRE-30	RDC 👱	-	N 8	NC	1	
						0 0 0 0		Sec Sec Sec Sec Sec Sec	य य य य य य ि	amera amera amera amera amera amera	2
F 8		00	• : [00 • ~ [)0 • :	00 💌	0	0	Sec 🚽	Syni	clo	se OSD Date/Time

(1) [Rotation time (second)]

• Set Auto Selecting Time in second.

(Camera 1~16)

- Select the camera to display on external monitor.
- It shows on external monitor according to selected time automatically.

☞ [Tip]

Image from external monitor's output uses Split Screening Method instead of Consecutive Conversion Method when using DW9200. It might not indicate set item for external monitor.

1.4 Motion Detection setup

This function enables you to record any activity without external sensor. It can even detect delicate movement as well.

Audio setur	Sustan	setun	Motion tracking setue	Storage solution	E-Man Seturn
Hardware setup	Motion setup	Schedule setup	Screen division	Modem setun Site infr	rmation Password setun
Hardware setup	Motion setup	Schedule setup	Screen division	Modem setup Site infi Sensitivity : Less Alarm(M) 00 I H Use secure channel Area clear Individual camera adjustmer Brightness Brightness	armation Password setup
Recording frame rate	per camera	9 e	7. 15 8 16 12 Setup for	Color	Clear Area draw
2 3 4 5 6 7 8 Default	12 12 12 12 12 12 12 12 12 12 12 12 12	10 11 12 13 14 15 16	12 Setup for a 12 Screen size 12 Quality 12 Transfer Quality 12 Color of n © Green Size Green Size	All cameras 384x288 Normal Normal Normal Set	een when
				I	Save Close

(1) [Camera]

• Click the camera you want to set up.

(2) [Detection Area]

• To assign the detection area, place the mouse cursor over the desired area, drag it until your aiming area is fully covered. You can designate up to 5 different detection areas in each camera.

(3) [Sensitivity: sensitive ~insensitive]

• This function is to control sensitivity in detection every time any movement is captured on camera.

• Default sensitivity is "15" and it is the recommended value.

(4) [Beep Sound Occurrence]

-

- When a motion is captured from related camera within selected time, speaker from inside the system will make BEEP sound to let you know the situation by selecting Beep Sound Occurrence.
- Click here to use Beep Sound Occurrence.

(It only detects the motion within the period of set time).

• If the relating camera is set to "Continuous Recording", Beep sound will not operate.

(5) [Use Secure Channel]

• To use the secure channel, select 🔽 .

• To hide the images of the channel selected in the Monitoring Mode, secure channel images will appear.

					1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 -	
Audio setup	Syster	n setup	Motion tracking setup	Stora	ge setup	E-Map Setup
Hardware setup	Motion setup	Schedule setup	Screen division	Modem setup	Site information	Password setu
		ų	Camera	Sensitivity :		More
		-5	5) 🗆 Use secure c	hannel	Area draw
			5 13	_ Individual came	ra adjustment	Alca diaw
			6 14 7 15	Brightne:	21	Contrast
			8 16	Color		Default
- Recording frame rate	e per camera					
1	- 12	9	12 Setup fo	r all cameras	Area clear	Area draw
2 — J	- 12	10	12			
3 — J	- 12	11	12 Setup for	all cameras	Full screen when	-
4 — J	12	12	12 Screen	384x288 💌	motion	
5 —j	12	13	12 Duality	Normal 💌	time(sec)	 No full screet
6 <u> </u>	- 12	14	12 Guality			
7	- 12	15 —j	12 Quality	Normal 💌	Set guad rotat	ion time
8	12	16 —j	12			3
	. 1		Green	en C Bed	[
Derau	t					
					Save	Close





[When Secure Channel Is Applied]

Audio setup	System	setup	Motion tracking setup	Storag	je setup	E-Map Setup
Hardware setup	Motion setup	Schedule setup	Screen division	Modem setup	Site information	Password setur
	, P	ų	Camera 1 9 2 10 3 11	Sensitivity :		More
77		T	4 12 5 1 6 14 7 15 8 16	B Individual camer Brightness < 0 ≥	Area clear	Area draw (
Recording frame r 1f 2f	ate per camera	9 <u> </u>	12 Setup for	Color Color r all cameras all cameras	Area clear	Area draw
3	12 12 12 12 12	11 12 13 14	12 12 12 12 Quality 12	384x288 💌	Full screen when motion Delay time(sec)	No full screen
7 8 		15 <u> </u>	12 12 12 Color of © Gr	Normal 💌 motion area een C Red	Set quad rota	tion time 3 •

6 [Clear Area]

• It clears all the detection area.

• To erase some part of the detection area, move mouse pointer out of the screen

(7) [Detection area setup]

· Select full screen as motion detection area.

(8) [Screen Adjustment]

· Adjust brightness, color, contrast on each camera

(Do this for each camera for better result).

• Default value is '0' for each camera.



• If it is black and white camera, click the mouse and change it to black and white to corresponding camera number

(Default is set on color).



• It will get back to the factory value.

Audio setup	System setup	Motion tracking setup	Storage setup	E-Map Setup
Hardware setup	Motion setup Schedule	setup Screen division	Modem setup Site informa	ition Password setup
		Camera 1 9 2 10 3 11 4 12 5 13 6 14 7 15 8 15	Sensitivity : Less , , , , , , , , , , , , , , , , , ,	More M - 24 V H OV Area draw
Recording frame rat	e per camera 	12 13 14 15 15 16 17 18 19 12 12 12 13 14 15 16 17 18 19 10 <td>all cameras Area clex all cameras Full screen 384x288 Full screen Normal P Normal Screen Normal Screen Set que notion area en C Red</td> <td>ar Area draw when No full screen ad rotation time Save Close</td>	all cameras Area clex all cameras Full screen 384x288 Full screen Normal P Normal Screen Normal Screen Set que notion area en C Red	ar Area draw when No full screen ad rotation time Save Close

(1) [Recording rate per camera]

- Each camera's recording rate is adjustable by the frame rate .
- You can adjust recording rate by dragging the mouse on horizontal scroll button.

🖙 [Tips]

• Setting recording for each channel (Following is base on DW9200 and basic average value is set by pressing 'prior value')

	I
Channel	Number of Frame
4 channel	30 frames per camera
8 channel	8 frames per camera
16 channel	4 frames per camera

- If you increase the speed in certain camera, the other camera's speed will decrease automatically in 8ch and 16ch.
- When using channel 8 and/or 16, increasing camera recording rate will be more effective to use for an important area

Audio setup System setup Motion tracking setup Storage setup E-Map Setu Hardware setup Motion setup Schedule setup Screen division Modem setup Site information Password	tup d setup
Hardware setup Motion setup Schedule setup Screen division Modern setup Site information Password	d setup
Camera	
Image: Sensitivity: Less Image: Sensitivit	More

12 For all the camera [Erase selected area (Full)]

• Erase all the selected motion area on for all cameras.

(13) For all the camera [Area Selection (Full)]

Designate full screen as motion detection area for all cameras

(14) [Screen Size]

- Decide the size of a recording screen.
- Recommended size is 320 x 240 resolution for file size.

(For 160*120 resolution, Display & Recording speed gets about 2 times better but display quality will be lower. For 640 X 480 resolution, display quality is excellent but recording speed will be slower.

• Default resolution is 320*240.

- (15) [Compression resolution]
 - Choose screen quality you wish to record.
 - Screen quality improves as you set to higher value but file size per screen frame will increase.
 - Default value is 'Normal'.

🖙 [Tip]

Recording screen size and recording file

size has a close relation.

(16) [Transfer Quality / Transfer quality of picture]

- Fix the picture quality of transmitting image while accessing network between center and site.
- It the number is higher the quality is better, but takes more time to transmit.
- · Basic value is fixed to 'regular'

[reference]

Size of image and transmitting picture quality is in close relation with the transmitting speed.

							×
Audio setup	System	setup	Motion trackir	ng setup	Storag	ge setup	E-Map Setup
Hardware setup	Motion setup	Schedule setup	Screen d	vision	Modem setup	Site information	n Password setup
				Camera 1 9 2 10 3 11 4 12 5 13 6 14 7 15 8 16	Sensitivity : Alarm(M) Use secure ch Individual came Brightness Color Color	Less , , , , , , , , , , , , , , , , , ,	Area draw Contrast Contrast Default Default
	— 12	e	12	Setup fo	r all cameras	Area clear	Area draw
2 3 4 5 6 7 8 Defa		10j 11j 12j 13j 14j 15j 16j		Setup for a Screen size Quality Transfer Quality Color of r © Gre	all cameras 384x288 ¥ Normal ¥ Normal ¥ notion area en C Red	D Full screen wh motion Delay time(sec)	No full screen (19 otation time 3 v ve Close

17 [Zooming out when motion was detected] Full Screen

• When motion is detected, the screen will go from current to full size.

- Enter camera number.
- Ex) For setting camera no.1, no.2, no.3, input "1,2,3".
- !> [Caution]

Put comma (,) after camera number.

- (18) [Delay time (second)]
 - This function will maintain status of full screen when motion is captured.

Time unit is set to second (sec.).

(19) [Cancel Screen zooming]

• It cancels Screen Zooming when motion was detected.

- (20) [Color of motion area]
 - This function is to set motion area when motion is detected.
 - You can select either green or red color.

(21) [Screen rotation by 4 channels (second).]

- This function rotates with 4 channels in a split screen consecutively.
- Rotation time should be set.

(Caution]

Do not set the time as '0'. Screen will rotate

too fast, therefore, image from the screen will be unrecognizable. So more than 1 second is highly recommended.

1.5 Schedule Setup

	tup	System setup		Motion track	Motion tracking setup Storage		setup	E-Map Setup
Hardware set	up Motion	n setup	Schedule setup	Screen o	fivision N	Nodem setup	Site information	Password setup
Camera							1	Circula and
1 2	Lamera 1	Weekday		Saturday		Sunday/Holiday	Advanced mo	de Advanced r
	00:00-01:00	5	00:00-01:00	5	00:00-01:00	M:S:P	0	• Hardilood I
	01:00-02:00	5	01:00-02:00	5	01:00-02:00	M:S:P		
5 6	2:00-03:00	5	02:00-03:00	5	02:00-03:00	MISIP	Continuous	
	3:00-04:00	5	03:00-04:00	5	03:00-04:00	M:S:P	M: Motion	
7 8	04:00-05:00	5	04:00-05:00	5	04:00-05:00	MISIP		
0 10	05.00-06.00		05.00-06.00	C	00.00-06.00	M.S.F	5. Sensor	
5 10	07.00.00.00		07-00-07:00	э с	07-00-09-00	M.S.F	P: Prealarm	
11 12	07.00-06.00		00.00-00.00	э с	07.00-00.00	M.S.F		
	00.00-03.00	о С	09-00 10-09	o M-C	09-00 10-00	M.S.F		
13 14	10.00-10.00		10.00 11.00	M.C	10.00.11.00	M.S	Copy to	
15 16	11:00 12:00	C	11:00 12:00	M.S M.C	11.00.12.00	M.S		
	12:00:12:00		12:00 12:00	M.S M.C	12:00:12:00	M.S		
	12:00-13:00		12:00-13:00	M.S M-C	12:00-13:00	M.S		
	14:00 15:00		14:00 15:00	M.S M.C	14:00 15:00	M.S	Set holiday	
	15:00.16:00		15:00:16:00	M.S M.C	15:00:16:00	M.S		
	16:00:17:00	с С	16:00-17:00	M-S	16:00:17:00	M:S		
	17:00-18:00		17:00-18:00	M-S	17:00.18:00	Mis		
	18:00-19:00	M	18:00-19:00	M-S-P	18:00.19:00	S-P		
	19:00-20:00	M	19:00-20:00	MISIP	19:00-20:00	SiP		
	20:00-21:00	M	20:00-21:00	M·S·P	20:00-21:00	S:P		
	21.00-22.00	 M	21:00-22:00	M:S/P	21.00.22.00	S:P		
	22:00-23:00	 	22:00-23:00	M:S:P	22:00-23:00	S:P		
	23:00-24:00	 M	23:00-24:00	M:S/P	23:00-24:00	S:P		

(1) [Camera]

Select camera number

(2) [Setting recording type]

• This function is to set selected camera's recording type by each day and time.

• Select time of the day and select (drag) the area and then select recording mode from [Record Mode].

• If you need to set minutes too, double click on corresponding time and you will see a picture that looks just like below. Drag either to left or right.



(3) [Simple/Advanced mode]

• This function lets you to select by minutes instead of hours depend on recording mode.

• A pop up menu will appear if you click [Simple mode] on the right hand side of corner. Selecting time setup depends on mode type.

• [Advanced mode] gives more option for time setup. You can set different time for each day.



(4) [Record mode]

• This function is to set recording type along with day and time for selected camera.

• After choosing day and time from selected camera, selecting more than 1 record mode will change selected time setup within selected time.

• If you erase all the record type from [Record

mode], selected setup time will change to no record mode.

• Default is 'Motion & sensor record' of 24 hour continuous record.

[Indication by record type]	[Supported record mode]
 C: Continuous Record M: Motion Record S: Sensor Record P: Free Alarm Record 	 No record Continuous record Motion record Sensor record Motion & sensor record motion & free alarm record Sensor & free alarm record Motion & sensor & free alarm record Motion & sensor & free alarm record

🖙 [Tips]

Continuous Record

• This is used when continuous recording is done without motion detection.

Motion Detection Record

• This is used when recording is done using motion detection.

Sensor Record

• This function is to record by inputted sensor's signal.

• Sensor setup can be done by camera and use time. If sensor is captured within selected time, related camera's image will be recorded or related control will operate.

Sensor input signal will be ignored if anything occurs outside the setup time.If related camera or time line is set to 'Continuous Record', then Sensor Record

cannot be used.

Pre Alarm

When a motion is captured on camera, then camera will record every moment of the motion occurrence in addition to five seconds before the motion was detected. (But, recording speed may decrease if you setup several cameras with it).
If the corresponding camera or time is set to 'Continuous Record', you cannot use Pre Alarm function.

Audio setup System		System set	up	Motion track	ing setup	Storage setup		E-Map Setup	
ardware se	tup Motion	n setup	Schedule setup	Screen	division N	fodem setup	Site information	Password setu	
amera	Camera 1	Weekdau		Saturday		Sunday/Holiday	Aduppood mode		
2	00:00-01:00	S	00:00-01:00	S	00:00-01:00	M:S:P			
	01:00-02:00	S	01:00-02:00	S	01:00-02:00	M:S:P			
	02:00-03:00	S	02:00-03:00	S	02:00-03:00	M:S:P	Record mode		
5 6	03:00-04:00	S	03:00-04:00	S	03:00-04:00	M:S:P	C: Continuous		
	04:00-05:00	S	04:00-05:00	S	04:00-05:00	M:S:P	M: Motion		
<u> </u>	05:00-06:00	S	05:00-06:00	S	05:00-06:00	M:S:P	S: Sensor		
9 10	06:00-07:00	S	06:00-07:00	S	06:00-07:00	M:S:P	P. Prealarm		
	07:00-08:00	S	07:00-08:00	S	07:00-08:00	M:S:P	r r.riedidili		
1 12	08:00-09:00	S	08:00-09:00	S	08:00-09:00	M:S:P			
3 14	09:00-10:00	С	09:00-10:00	M:S	09:00-10:00	M:S		All came	
	10:00-11:00	С	10:00-11:00	M:S	10:00-11:00	M:S (Lopy to		
5 16	11:00-12:00	С	11:00-12:00	M:S	11:00-12:00	M:S		Camera	
	12:00-13:00	С	12:00-13:00	M:S	12:00-13:00	M:S		Camera	
	13:00-14:00	С	13:00-14:00	M:S	13:00-14:00	M:S	`	Camera	
	14:00-15:00	С	14:00-15:00	M:S	14:00-15:00	M:S 6	Set holiday	Camera	
	15:00-16:00	С	15:00-16:00	M:S	15:00-16:00	M:S		Camera	
	16:00-17:00	С	16:00-17:00	M:S	16:00-17:00	M:S		Camera	
	17:00-18:00	С	17:00-18:00	M:S	17:00-18:00	M:S		Camera	
	18:00-19:00	м	18:00-19:00	M:S:P	18:00-19:00	S:P		Camera	
	19:00-20:00	м	19:00-20:00	M:S:P	19:00-20:00	S:P		Camera	
	20:00-21:00	м	20:00-21:00	M:S:P	20:00-21:00	S:P		Camera	
	21:00-22:00	м	21:00-22:00	M:S:P	21:00-22:00	S:P		Camera	
	22:00-23:00	м	22:00-23:00	M:S:P	22:00-23:00	S:P		Camera	
	23:00-24:00	м	23:00-24:00	M:S:P	23:00-24:00	S:P		Califera	
					100				
						6.	Va Close		
						Sa	Ve Close		

5 [Copy]

This is an application to copy and transfer setup information from currently selected camera.
A pop up menu will appear on the right hand side

when you click [Copy]. Currently selected camera will copy to camera you chose from the pop up list.

6 [Holiday selection]

• You can pick any specific day(s) of the year and set it as holiday.

(Caution)

You must press [Save] button from

[Schedule setup] in order to store information

on any changed holiday.

Jaieriu	31		001 1	0		<u> </u>	Holidau	Botate
<<		2	001.1	U		>>	2001-10-29	Tiotate
Sun	Mon	Tue	Wen	Thu	Fri	Sat	2001-10-30	Month
	1	2	3	4	5	6	2001-10-31	Year
7	8	9	10	11	12	13		
14	15	16	17	18	19	20		
21	22	23	24	25	26	27		
28	29	30	31				L	
						Today		
Detet	_	1	None			–		

①[Calendar]

- Select any day you want to designate as holiday.
- << : Move to last month.

- -- -

- >>: Move to next month.
- Today : Shows current Month/Day/Year.

(2)[Rotate]

- You may choose specific Month/Day/Year as holiday.
- If you select [None], one day will be designated as holiday and for that specific day only.

3 [Holiday List]

- This function is to show designated holiday date and its repeated date or period in a list.
- Any additional holiday dates will be stored in the list in an alphabetical order.

(4)[Add]

- This function is to add holiday date you have designated.
- Designated holiday date will be added to [Holiday List] when you click [Add].

(5)[Delete]

- This function is to delete stored holiday date.
- In order to do this, select the date you wish to delete from [Holiday List] and click [Delete].

1.6 Screen split setup

This function enables you to split the screen according to the number of attached camera.

				ž
Audio setup	System setup	Motion tracking setup	Storage setup	E-Map Setup
Hardware setup	Motion setup Schedule setup	Screen division	Modem setup Site informa	ation Password setup
1 Screen division 2 Came 3 La	re selection 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 rge screen Default 4			
			Save C	lose

- (1) [Split Screen]
 - It decides the number of split screen. (4,6,9,10,13,16 split screen)



- (2) [Camera selection]
 - Select camera for split screen.
- (3) [Large screen]

•You can select important screen for magnification among 6, 10, 13 split screens.

- (4) [Default]
 - Default will change to factory value.

1.7 Communication setup

	2
Audio setup System setup Motion tracking setup Storage setup	E-Map Setup
Hardware setup Motion setup Schedule setup Screen division Modem setup Site info	ormation Password setup
Type of connection C LAN/PSTN/ISDN/LEASED CIRCUIT/Router) Live video stream bandwidth No limit	
C No connection	
Password Confirm Freenency selup	
Motion for Emergency 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Sensor for emergency 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	
C Emergency Transfer time 0	
C Emergency IP 0.0.0	
Save	Close

(1) [Type of connection]

• LAN, PSTN, ISDN, Leased Circuit can be used for remote connection.

ISDN or Leased circuit with router connection is possible and ISDN or PSTN can be used to connect to DVR without router directly.

- If you don't use remote connection check on "not use"
- [Live Video stream bandwidth]

Set the bit-rate control per second of the image transmitted to the network.



(3) [Emergency Connection]

[Motion for Emergency Message]

• If motion occurs on the selected camera, it gets directly reported to the inputted IP address to Emergency Monitor.

(Transmission camera is set when number is pressed, and Emergency Monitor must be running for the PC that has center program installed.)

[Emergency Screen Transmission]

• If the sensor detects any signal it sends alarm to the center with the captured image during the designated time.(You can assign the external sensor number.)

(2) [Password]

• Enter 4 digit number password to log in site from Center P.C. (Input must be NUMERIC and 4 digit).

- [Password] : Enter the 4digit number password
- [Confirm] : Re-enter the password to confirm.

🖙 [Tip]

When you try to connect to site from center P.C., DW9200 checks the site code and password together, and If they are not identical, it will be disconnected automatically.

(When the site program uses an unfixed IP, the center program cannot access the site program.)

	2
Audio setup System setup Motion tracking setup Storage :	setup E-Map Setup
Hardware setup Motion setup Schedule setup Screen division Modem setup	Site information Password setup
Type of connection	Y
Password Image: Confirm Confirm Image: Confirm Emergency setup Image: Confirm Motion for Emergency Image: Confirm Motion for Emergency Image: Confirm Motion for Emergency Image: Confirm Message Image: Confirm Sensor for emergency Image: Confirm Image: Confirm Image: Confirm	
C Emergency Transfer time 0 5	
C Emergency IP 0.0.0.0	
Sav	e Close

(4)[Emergency access phone number and Emergency IP address]

• If the primary emergency access number or IP address is improper, secondary numbers are network connected to transmit to emergency screen or transmits emergency message

 You could input up to 2 Emergency access phone number and Emergency IP address

(5)[Transfer time(sec)]

• You can assign the time in second to transfer the image to the Center PC when it made a connection. (If any other signal is detected during the transfer, DVR transports image from that time again.)

1.8 Site Information

Hardware setup Motion setu - Site information - Site code 100-110	up Schedule setup	Screen division	Modem setup	Site information	Password setu
Note		;	Product ID : DISK. DRIVE A Drive Florpy	COMPU Intel P 255ME	TER : entium 3 RAM
Display camera status bar. Display control status bar. Display control status bar. Display sensor status bar. Display motion detection gric Image transfer to floppy disk	1 . Unlick for BMP Tick for JPE		L Drive Total Space : 4094 ME Free Space : 2290 ME Total Space : 22740 M Free Space : 90 MB E Drive Total Space : 22740 M Free Space : 30 MB	B B B B Servic	i: ws NT n 5.0 e Pack 2
Clock display format YYYY Sensor Type C 8 Sensor C 1	/MM/DD I	☑ Use Int	elli Search tooltip		

(1) [Site Information]

• Enter site code, location, model, version, distributor, purchase date, or warranty service date etc.

- You must enter site code.
- ☞ [Tip]

When you try to connect to site from the center, system checks the site code and password together. And if they are not identical, it gets disconnected.

(2) [Camera status displaying bar]

• This bar displays when the channel is being recorded on surveillance mode.



- (3) [Sensor status bar]
 - It displays occurrence of sensor signal.



(4) [Display control status]

• It displays current status of control in surveillance mode. (On or Off)



Audio setup S	ystem setup	Motion tracking setup	Storage setup	1 1	E-Map Setup
Hardware setup Motion setu	p Schedule setup	Screen division	Modem setup Site	information	Password setu
Site information Site code [100-110] Location Model Distributor Sale Date Other Note Display camera status bar. Display control status bar. Display control status bar. Display control status bar. Display control status bar. Display sensor status bar. Display motion detection grid Image transfer to floppy disk. Clock display format Sensor Type Bensor Image Sensor Imag	Untick for BMP Tick for J MM/DD I	PEG	International States and States a	COMPUTER Intel Penti 255MB R SYSTEM : Version 5 Service P	1: um AM NT 0 ack 2 2 3 8 8 9 9 0 0
			Save	Close	

(5) [Displaying motion detection area]

• This function displays a status of automatic motion detection on each camera under motion detection mode (on/off).

(6) [When copying to a floppy diskette (A:), JPEG or BMP, compression method can be used]

• If you select this function, it stores the data in JPEG onto a floppy disk.

- (Default is BMP format.)
- (7) [Clock Display Format]
 - This is a format of displaying time.
 - · Select the type of display you want.



(8) [Sensor Type]

• Select the type of Sensor/Control.

• Select '8 SENSOR' for use of 8 Sensor/Control, and '16 SENSOR' for use of 16 Sensor/Control.

• Proper number of Sensor and Control buttons will be displayed in the surveillance mode when you chose 'Sensor Type.'' You'll be able to see the proper number of buttons in 'Hardware setup' and 'communication setup'



) [Site Information]

• Site software name, model, hard disk space, Windows information, and site software version will be displayed..

(10 [Use Intelli Search tool tip]

• If you just set the mouse pointer on any icons, brief information such as its name will appear if Intelli Search mode is selected.

1.9 Password Setup

Audio sotup	Sustem ontur	r	Motion tracking actum	Í Storage	ootun Í	E Man Salun
Addio setup	Jystein setup	le a de da servara	Motor tracking setup	Hadamarkan 1	Setup	Paceword cetu
Hardware setup Motion setup Motion setup Store Schedule Setup Dis screen setun	Level 2	Level 3	Screen division Password change Level 1 Did password Did password New password Ordering	Level 2 Old passwor	d Old pas	sword
Modern setup Site information System setup						
Audio Setup Motion Tracking Setup						
Disk Allocation Setup						
E-Map Setup Search and Exit						1 2 3 4 5 6 7 8 9 • 0 (
				Sa	ve Close	

(1) [Changing password]

• You can assign password to three operators and some functions can be set to work with permission.

• <u>User 1 can modify all the setup and User 2 and</u> <u>User 3 can modify assigned items only.</u>

- (2) [Before changing password]
 - Enter the current password you are using.
- (3) [After changing password]
 - Enter the new password.
- (4) [Confirmation]

• Enter the new password again.

(5) [Setup List]

• Check on the list that can be modified by operator2 and operator3.

(Operator 1 has an access to every setup and may modify every information from the list).

🖙 [Tips]

- Operator 1 has access to change the setting that is given to 3 operators(each with secret number).
- Password does not exist when manufactured.
- It is advised that the password of 2,3 operator should be managed by operator 1.

1.10 Audio Setup

Hardware setup	Motion setup	Schedule setup	Screen division	Modem setup	Site information	Password setu
Audio setup	System	setup	Motion tracking setup	Storag	je setup	E-Map Setup
Can use audio o	hannel 8					
\mathbf{U}						
Audio settings						
🔽 Audio save enable	E					
Audio playback en	abled					
-	9.0 					
Lamera						
1 2 3 4 5	6 7 8					
9 10 11 12 13	14 15 16					
Audio out test						
Audio out enable						
1 2 3 4 5	6 7 8					
	1/ 15 16					
	19 10 10					
				S	ave Close	

(1) [Display the number of sound recordable channels]
It displays the number of sound recordable

• It displays the number of sound recordable channels.

• In case a user records sound using a default sound card built in a main board, only one channel can record sound. But if a user records sound using an exclusive sound card provided by Digital Watchdog that supports voice record of Max. 8 channels.

[Record and play sound]

(Sound record)

• A user decides whether he would record sound after selecting a camera.

• A user can set a function recording sound for a specific camera and record audio signals input to a mic. terminal coupled with video signals.

• Sound is recorded along with video at the video record time, and as sound is supposed to be recorded at the moment when video is input, sound can not be recorded when video is not input.

• In order to record sound, a sound card or an exclusive audio board should be installed.(Unless a sound card or an exclusive audio board was not installed before, even though 'Sound record setup' is made active, it is released back.)

[Record and play sound]

[Play sound]

• A user decides whether he would play sound during search.

• It makes possible simultaneous play of video and sound from a camera where sound is recorded during search of recorded video on a search window.

(3) [Camera]

• A user selects the numbers of cameras which would record and play sound.

• A user may change numbers of cameras, so that desired cameras can record sound during sound record using a sound card.

•Sound record using a sound card is available to only one channel but if a sound record-only audio board is used, audio record is available to 8 channels.

• If both sound card and exclusive audio board is installed, it is advised to use audio board.

Hardware setup	Motion setup	Schedule setup	Screen division	Modem setup	Site information	Password setu
Audio setup	System	setup	Motion tracking setup	Storag	ie setup	E-Map Setup
Can use aud	lio channel 8					
Audio settinas						
Audio agus are	blad					
- Augus save ena	DICU					
I Audio playback	enabled					
Camera						
1 2 3 4	5 6 7 8					
3 10 11 12	13 14 15 16					
Audio out test						
L Audio out enab	le					
1 2 3 4	5 6 7 8					
9 10 11 12	13 14 15 16					
				s	ave Close	

(4) [Audio out test]

• In case a sound record-only audio board is used, a user can check sound output status of each channel.

• In order to check sound output status of each channel, a user selects *v* buttons having numbers of related cameras after selecting [Audio out enable].

• [Audio out test] appears only when a sound record-only audio board is used but it does not appear during sound record using a sound card.

• A user can not select "Sound and play record", buttons having numbers of cameras to which audio is applied, and Setup and Close buttons while checking audio output status using [Audio out test]. He can select them when [Audio out enable] is released after an audio out test is finished or he moves to other setup window.

🖙 [Tips]

• A user can back up even sound while backing up data which is already recorded, and record data into the specific drive of Center.(However, sound data recorded by means of an audio board can not be backed up but it will be supported in the next version.)

• In case a sound card is built in, 2 way audio communication with which a user can transfer sound to Center S/W and receive it from Center S/W is possible.

• During sound record using a sound card, once 2 way audio is connected, sound record function stops.

•If using sound card to record voice and use 2Way Audio function, you need additional setting on Windows for sound card.(see Page93)

1.11 System Setup



When recorded image was modified from DW9200 program, WaterMark authentication and WaterMark check will tell you whether the image was modified or not.
						×
Hardware setup	Motion setup	Schedule se	tup Screen division	Modem setup	Site information	Password setup
Audio setup	System	setup	Motion tracking setup	Storag	ge setup	E-Map Setup
System off time			Watermark.		Hardware setup	
🗖 Sunday	00 • H 00	• M	🔽 Use Watermark		VGA card	•
🔲 Monday	00 • H 00	• M	🔽 Display Watermark pro	tect image	Control card port-	
🔲 Tuesday	00 • H 00	▼ M	Backup	. 6		
🗌 Wednesday	00 • H 00	▼ M	Backup setting			
🗖 Thursday	00 т н Ос	▼ M	6	1	1 KWD-102 Port	
🗖 Friday	00 • H 00	▼ M	Ŭ		Unused	_
🗖 Saturday	00 • H 00	• M (7	Video Loss Alarm	(1	2) Video format	
			Alarm Used [Use Cont	rol] 0 <u> </u>	IPAL	
- System restart ti	me		Eeep Used			
			[Working Time]			
Iv Used	03 <u>–</u> H 00	<u>▼</u> M	0 т н 0 т м	0 💌 s		
				s	ave Close	

(5) [Backup settings]

• This function is to setup and designate order for Date/Time, Rotation, and backup media in backup data .

(6) [Easy Update]

• This function has an ability to upgrade program of a new version.

• Selecting [Easy Update] button gives you a choice of a brand new upgraded version package by executing Intelli Update program.

• You can upgrade easily by designating package folder that was recorded in system's hard disk or removable type drive or joint network folder.

(7) [Video Loss Alarm]

[Alarm Used/Beep Used]

• Select 🔽 to generate control alarms and beep sound in case of video loss.

[Use Control]

• Select the control number that is interworked in case of video loss.

[Working Time]

• Set the alarm and beep sound time.

(Set the working time by hour, minute and second.)

(8) [VGA]

- · Select the type of VGA installed in a system.
- Proper VGA card will be selected from the manufacturer.
- (9) [Control Card Port]
 - Select Com port of Control card.
 - · Correct port is selected from the manufacturer.

(10 [PTZ Port]

- · Set COM port which was applied from PAN/TILT.
- When controlling PAN/TILT from control card, set COM Port which is identical to [Control Card Port].

• If a product uses RS-232's signal from COM Port of some RX Receiver or Speed Dome, set COM Port but separate then control it with [Control Card Port] to the corresponding PAN/TILT.

(T)[KWD-102 Port]

- Set COM port to use KWD-102.
- When any program error occurs, it will operate at 10 minutes. If the error is not recovered within 10 minutes, this will operate every 60 minutes.
- This is applied only when in case of video loss.

(12) [Video Format]

• Select between NTSC and PAL according to image method.

				\sim
Title	Data time	Rotate	Media	2 << 2002.01 >>
Backup2	23:30-23:40	Year	211.54.12.109:D:	sun montue wenthu fri s
Баскирт	23:10-23:15	week		1234
\bigcirc				6 7 8 9 10 11 1
U				13 14 15 16 17 18 1
				20 21 22 23 24 25 2
				27 28 29 30 31
				Toda
				1000
				Schedule
				Add
				Dalata 1
				-
41				
<u> </u>				

(1) [Title of back up setting]

•This function shows a reserved list of Date/Time, Rotation, and backup media in backup data.

• It consecutively progress backup according to setup time of the backup schedule.

(2) [Calendar]

• You can check the list of backup schedule that's setup by date.

3 [Add]

• This function is to add recording time of backup data, rotation time, and backup media which will record data.

(4) [Delete]

· Deletes reserved list from backup schedule setup list.

5 [Setup]

- This records information from backup schedule setup list.
- Information from backup schedule setup list will not be recorded if you do not click [Setup] button.

Add Backup Schedule



() [Title]

• Input the additional title in backup schedule setup list.

(2) [Date/Time]

• Choose the Start and End date from the backup data.

• Time should be setup beyond current recording time.

• Setup time will be ignored if the recording time was set earlier than the current time.

(3) [Rotation option]

• There is NO designated date/time in year/time in month/time in week so you can set the rotation time.

• Backup schedule will only apply for a day if you select [None] for designated date/time.

(4) [Starting time for backup after recording is done]
After backup data finishes the recording, this function lets you to designate the backup starting time after End time is set.

• You can set it immediately and from 1 hour to more than 4 hours.

5 [Media List]

• Choose backup data to record it to backup media.

Media list can hold up to 8 lists, when you fail to record it to an initial media, backup will start automatically to the next media.
Selectable media types are HDD, CD-RW, portable drive, and Network drive etc but floppy drive is excluded. It means all of the write-recordable media which designates letters are supported by physical/logical media systems and you can select remote drive using IP address.

[Up/Down/Delete]

• Listed order for backup media can move from up and down. Also, selected media can be deleted.

[Add media]

• Backup data can add the media you will record.

• Maximum number of adding backup media is up to 8.

6 [Setup]

[Old data is deleted when there isn't enough recording space available]

• Backup data will record old data if there is not enough recording space available to record continuously.

[Deciding priority]

- Designate backup data's priority.
- Wait until progressing work is done: If the backup data is working currently and not all the data have finished its backup, then all the data need to complete its backup before currently chosen backup to start.

() [Add]

• Add the designated backup setup to backup schedule list.

Select Backup Media

Select backu	p media ia drive	2 C Remote drive
Path	■ c: ▼ ■ d: ■ e: ■ f:	IP address Password Drive : Select drive
		<u>O</u> k <u>C</u> ancel

① [Local Drive]

• You may choose HDD or portable drive (MOD, DVD-RAM, ZIP, USB HDD etc), CD-RW, Network drive.

• Among the systems that are physically and logically installed, all of write-recordable media is supported.

② [Remote Drive]

• Using IP address, select this option where Center S/W is installed in remote area when backup.

In order to backup in the remote area using IP address, Center S/W need to be installed to remote PC or File server. When installing Center S/W, Remote Backup Server program should been executed which is provided together.
In order to do the remote backup setup, Remote PC or File Server's IP location and password is required while Remote Backup Server program is executing.

Remote Drive Select backup media X Select media Remote drive C Local drive IP address 0 -192.1.1.1 Password Drive : Select drive (1)0k Cancel

- () [Select drive]
 - Input IP address and password and select [Select drive].

• In order to connect to Remote Backup Server for remote backup, remote IP address and registered password from Remote Backup Server program is needed.

Drive select				×
IP Address	211.54.12.109	Port	8090	
Connect statu Connection st	is Jocess			
Drive path	2	•		ОК

2 [Path]

• If connection is done successfully using selected IP address and password, you may choose an appropriate backup media drive from remote PC or File server.

I	Drive select					×
l	IP Address	192.1.1.1		Port	8090	
	Connect status					
ઉ	Connection Fail					
I						
	Drive path		¥			DK)

(3) [Remote Drive's failed connection]

If selected IP address and password is different or Remote Backup Server program has not been executed from remote PC or File Server, then connection will fail and you may not be able to choose backup media drive.

Backup Progressing Indication

(1) While backup is progressing, an animated icon **(b)** will appear on top of screen. When you double click on it, you can check on current data's backup progressing process and waiting backup data list.

Easy Update

- Selecting [Easy Update] from system setting or selecting will execute IntelliUp Site program

icon using Alt+Tab key

Network Event log	Begin lictaning	
1	, Degin Hateining.	
Installed site	4.025Patch1	
	None (2)	(3) EZ Update
Backup site		
Backup site Backup date:	None	

(1) [Network Event log]

• When updating new versioned program from remote to center, you can check status of connection and upgraded program.

(2) [Version Information]

• You can check currently installed site program version, remotely updated site program, and the latest update etc.

③ [EZ Update]

• [Easy Update] button executes Intelli Update window of a new program version package. It also has a function to upgrade program of a new version that's stored in a hard disk or joint network folder.

(4) [Hide]

• [Hide] button minimizes IntelliUp window size of Site program.

IntelliUpdate		<u>? ×</u>
Select Package dire	ctory	
\\Qserver'		
	Data1 Data2 Data2 Data3 Data4 Data-A Data-A Data-B Data-C Data-C Data-C Data-C Data-C Data-C Data-C Data-C Data-C Data-C Data-C	5
	ОК	Cancel

(5) [Select Package directory]

• Click [OK] after selecting hard disk or joint network folder which is stored in a new version.

• In the designated folder, the package folder (Data1, Data2, Data3, Data-4, Data-A, Data-B, Data-C, Data-D, Data-E, etc.) or all files in the package folder shall be included in one folder.

☞ [Tips]

• When upgrading to a new version using Intelli Update, upgrading does not support floppy diskette. Therefore, we recommend you to upgrade after copying the whole media or on a hard diskette.

• If there is no file or package folder in certain folder due to a wrong folder designation, or if the damage had occur to the file, then it will not be considered as a normal package so the program will not upgrade normally.

Copy files Copying files.	
6 Installing :	
	Back(B) Next(N) Cancel(C)

- (6) [Check Integral package file & program installation]
 Installing process of a program window will appear when you designate package folder.
 - Installing process will show twice for testing integration package file and for program installation. DW9200 program, which was executed during program installation, will end.

INTELLI	UPSITE 🔀
	Successfully update:Restart system

(7) [System Restart]

• System need to be restarted when upgrading a new program version is completed.

1.12 Motion Tracking

When motion detection happens to a Speed Dome camera, this function detects moving objects according to image analysis.

Hardware setup Audio setup	Motion setup System	Schedule setup setup	Screen division Motion tracking setup	Modem setup Storag	Site information je setup	Password setu E-Map Setup
			Enable camera I Enable camera I Current camera Current camera Start position PAN TILT TILT Return star	4 Screen value Move camera et position 10sec	4 5 24 5 7 7 10 7 10 10 10 10 10 10 10 10 10 10 10 10 10	ine to t : 00 ¥ : 00 ¥ : 00 ¥
Set values PAN angle · TILT angle · Sensitivity · Camera flip	i i	J	Range PAN Left 60 ▼ Right 60 ▼ F Enable TILT Minimum 45 ▼ Enable	Screen value Screen value	The minimum v is 40. The maxi Right is 360. If range, it will be automatically.	alue of Left, Right mum sum of Left, He value is out of adjusted
				s	ave Close)

(1) [Camera to be used]

• When a camera to which motion detection can be applied is connected, a user can apply motion detection function to the related camera.

• A user selects numbers of cameras to which motion detection is applied.

(A user can select only numbers of cameras such as NIKO Speed Dome to which motion detection can be applied.)

(2) [Currently set camera]

• A user should select numbers of cameras, so that he may set up full settings for cameras to which motion detection can be applied.

(3) [Start Position]

• This configures the starting point of the camera.

• Input the position of the starting point in Pan and Tilt.

(4) [Screen Value]

• You can get the rectangular value of the current position of camera by clicking 'Screen Value' button.

(5) [Move Camera]

• This button moves the camera to the configured position.

(6) [Return Start Position]

• The dome camera goes back to the starting point when it stopped tracking the moving object after the value in seconds.

🖙 [Tips]

Motion Tracking function can be used only for 1 camera now. The model for this function is currently Niko Speed Dome NK-97SD.

• [PAN] decides the point to move left and right, and [Tilt] to move up and down.

Hardware setup Audio setup	Motion setup System s	Schedule setup etup	Screen division Motion tracking setup	Modem setup	Site information	Password se E-Map Setup
			Enable camera 1 2 3 Current camera Start position PAN 0 T TILT 0 T Return s	4 Screen value Move camera tart position 10sec	0n/0f/ti	me : 00 ▼ to ▼ : 00 ▼
Set values PAN angle · TILT angle . Sensitivity · Camera flip	ر ر	j	PAN Left 60 - Right 60 - 10 TILT Minimum 45	8 Screen value Screen value	The minimum ve is 40. The maximum Flight is 360. If t range, it will be - sulomatically.	alue of Left, Right num sum of Left, ne value is out of adjusted
				Se	ve Close).

⑦ [Range] [PAN]

• You can assign the angle to move left and right. The camera moves from the 'start position' that you set in 'Start Position'.

• The maximum value in left and right is 40 degrees. The sum of value in left and right cannot exceed 360 degrees.

• If the sum of the value exceeds 360, the value will be adjusted automatically.

(8) [Screen Value]

• You can get the current camera position by clicking this button.

9 [Enable]

• If you check on this box, the camera will move within the value of angle

(10 [Range] [TILT]

• You can assign the minimum angle in Tilt based on the value you put on 'Start Position'

(11) [Screen Value]

• You can get the current minimum value of Tilt by clicking this button.

(12) [Enable]

• If you check on this function the camera will move by minimum value.

Hardware setup Motion setup Schedule setup Audio setup System setup Moti	Screen division Modem setup Site information Password se ion tracking setup Storage setup E-Map Setup
15	Enable camera 1 2 3 4 Current camera Start position PAN 0 Screen value TILT 0 Move camera Return start position 10 C Camera 12 Converted 13 Cn/Off time V All 0 V 14 Converted 14 Converted 15 Convert
Set values PAN angle · + TILT angle + Sensitivity +	Range PAN Left 60 ▼ Screen value The minimum value of Left, Right is 40. The maximum sum of Left, Right is 360. The value is out of range, it will be adjusted automatically. Right 60 ▼ Screen value Tange, it will be adjusted automatically. TILT Minimum Minimum 45 ▼ Screen value
	Save Close

(13) [On/Off Time]

• You can select the time to activate Motion Tracking function.

• The default value is 00:00~24:00. (continue for 24 hours)

• The camera works in Pan/Tilt mode out of the configured time.

(14) [Disable PTZ mode]

• Disables PTZ mode from the Motion Tracking camera.

• If you don't select this, both Motion Tracking and PTZ will be used.

(15) [PAN/TILT angle]

• Displays the current image from the motion tracking camera.

• You need to configure the Pan and Tilt angle in order to locate the selection box to the selected position.

(16) [PAN Angle]

• Adjust this value when the selection box is out of the position in left and right you selected.

(17) [TILT Angle]

• Adjust this value when the selection box is higher or lower than the position you clicked.

(18) [Sensitivity]

• If you make this value higher, the camera movement will be more sensible and vice versa.

• You need to adjust this value properly depending on the location since Motion Tracking might move even by little light if it's too sensitive.

(19) [Camera Flip]

• Use this function when the dome camera is flipped.

• When the dome camera is installed from flipped position, it will work in reverse. Therefore, it might look broken. In order to prevent that kind of problem this might be used.

🖙 [Tips]

- The speed dome camera will track the most actively moving object among many moving objects.
- When the setup for the motion tracking is done 'Pan/Tilt' and 'Motion Tracking' will be displayed on the screen.
- You need to adjust the camera sensitivity more sensible in a dark place, and less sensible in a shiny place.



[Caution]

• The system will lose the configured position value when you use Zoom/Focus on the motion tracking enabled camera.(It is recommend to disable P/T/Z mode for the motion tracking enabled camera.)

1.13 Database Structure

Hardware Setup	Motion Setup	Screen Division	Modem Setup	Site Informat	tion Passv	vord Setup	Audio Setting
ollowing drives are o modify Storage : torage Structure o	s available. Structure, click [Change St lialogbox will appear when	orage Structure]. system restart.	MOUGH Hackin	9		clougo	
) Drive [C:]	(Available/Total) : (681 / 20 Allocation not allowed	151)MegaBytes		<u> </u>			
Drive (D:)	(Available/Total) : (129 / 34 Allocated	107)MegaBytes					
Drive (E:)	(Available/Total) : (76 / 360 Allocated	17)MegaBytes					
Drive (F:)	(Available/Total) : (75 / 36 Allocated	17)MegaBytes					
Drive [G:]	(Available/Total) : (75 / 350 Allocated	17)MegaBytes					
Drive [H:]	(Available/Total) : (67 / 34 Allocated	19 MegaBytes		To modify St [Change Sto	orage Structure, o rage Structure].	slick	
				<u> </u>	1odify Storage Str	ucture	
						Close	

- (1) [Drive Allocation]
 - Display the HDD that is allocated.
 - Data of possible disk space, allocation status for each drive will be shown.

(2) [Allocation]

- You can change the allocation on each drive here.
- · You can re-allocate DB setup for each drive by clicking 'DB change'

1.14 E-Map Setup



() [Use E-Map]

• This function enables to easily confirm the operational condition of the camera, control, sensor with the actual area which similarly appears in the E-map image.

• Select **I** in order to setup the location for camera, control, and center.

You cannot select setup button for camera, control, sensor if you do not select [use e-map].
You can use existing stored information but existing E-map information cannot be used.

(2) [Position Number]

• User can choose location of the E-map image divided by each mode.

It can be located each in all cameras by 4, 6, 9, 10, 13, 16 divisions of detection mode.

• E-map can be setup to a maximum number of division.

• Copy button <u>Copy</u> from each division will copy the specific camera location of different divided mode after the E-map setup. (3) [User Image Copy]

• DW9200 program basically provide Emap.bmp picture file, but this function is used where camera, control, and sensor is setup to change the actual plan to the E-Map image.

• When selecting the image file you wish to change from [Find] button, file will appear and when you select [Go] button from here, selected image file will convert and appear as Emap.bmp.

 Regardless of file name and size of the image which will change, you may select BMP form of every image, and the existing E-Map image will be deleted when E-Map image changes.



(4) [Setting]

[Camera / Control / Sensor]

• This function is to setup a location of camera, control, and sensor.

• After selecting the type of camera, control, and sensor you would like to setup, click the mouse where you want to put the E-Map image.

• Select from solution is according to the type and location of installed camera, control, and sensor.

• You may select the button type from machine type and button type will change according to the machine type of selected camera, control, sensor.

 Shape of camera can be selected and you can select the following camera types; CCD, PinHole, Speed Dome camera from second list.

Light and alarm speaker can be selected from
 Iist of the controller type.

• Fire sensor and infrared ray sensor, and heat sensor are in

[Delete camera, control, Sensor]

• If you wish to delete only the selected camera, control, and sensor, select rom [Delete camera, control, Sensor] list and then click the icons you want to delete and it will delete them in the order which it was selected.

[Delete image]

• If you want to delete the selected image of E-Map background, select r from [Delete image] and then select [Select] button. This will delete the selected E-Map image.

(5) [Save]

• When you click [Save] button, saved information from camera, control, and sensor will apply to the system. In order to delete any existing information, delete the saved information from [Use E-Map] and then click [Save].

• You can use the existing E-Map information again if you select [Use E-Map] and then click [Save] button.

How to use E-MAP



(1) [E-Map Display]

• User may use E-Map function for each split screen of the corresponding camera number. E-Map image will be indicated from the surveillance screen.

2 [Control and Sensor in/output]

When a sensor signals, sensor occurrence will be indicated from the corresponding number's icon that has been set to the E-Map image.
When a control output occurs by manual control and automatic setup time, corresponding number of control icon from E-Map image will indicate status of the control output.

[Screen Zoom-out]

3

• When you select the camera icon in E-Map image, corresponding camera's screen image will change to a full screen size.

- When you click the full screen image, it will return to the original screen mode.
- When PAN/TILT is setup to full sized screen, corresponding camera's PAN/TILT can be adjusted.

• E-Map image will in to a full size screen when you select a character screen of E-Map image

2. Appendix

1. CD formatting and backup using direct CD S/W91
2. CD formatting using InCD S/W95
3. System setting for storing voice(in using sound card)98



CD Formatting and Backup Using Direct CD S/W

() [CD Formatting Using <u>Direct CD</u> S/W]

• When backing up data in an unformatted CD or receiving an error message after attempting to back up data, format the CD by the following procedure:

🖉 [Tips]

Following procedure is based on Direct CD v5.1. If any other message appears during disk formatting, refer to Direct CD manual.

(2) [CD Formatting and Backup]

• Click on [Select Media] button from "Backup Media" field, and select CD-R/RW drive under "Local Drive." Then, click on [Confirm] button.

• Insert a blank CD-R/RW media, and click on [Format CDR/CDRW] button.

(If CD-R/RW drive has been configured as Auto, Direct CD program will be automatically executed.)

• When Direct CD format utility window appears, check if CD-R/RW drive is selected and click on [CD Format] button.



(3) Enter the name for CD-R/RW in "Label" field of "~ Drive Format" window. Then, click on [Start Format] button.

DirectCD 5,1	0 (115) (N: 드라이브) 포맷		? ×
	directCD 📢		
라벨:	backup	포맷 시작(<u>S</u>)	
	(최대 길이: 11자)	취소	
참고: 라벨(은 CD를 구별하기 쉽게 해줍니다.	도움말(<u>H</u>)	
🗖 압축 사	룓		
┌포맷 형식		1	
0 빠른 : 사용합	포맷(Q) - 전체 포맷하지 않고 빠르게 CD를 할수 있게 해줍니다.		
 전체 	포맷		
19			

(4) "CD Formatting..." window will appear and CD-R/RW media will start to be formatted.

🏟 DirectCE) 5,10 (115) (N: 드라이브)	×
	CD 포맷 중	
•©		



(5) After formatting, "CD Ready" window will appear as below. Then, click on the [Confirm] button.

DirectCD 5,10 (115) (N: 드라이브)
directCD FX 윤 CD 준비됨
CD를 드라이브(N:)에서 직접 읽고 쓸 수 있습니다. Windows 탐색기 또는 Microsoft Word같은 Windows 응용 프로그램을 사용하며 CD를 읽고 쓸 수 있습니다.
☞ CD를 읽고 쓸 준비가 되면 이 메시지를 다시 표시합니다.
<u>্র্যায়</u>

6 When Direct CD Format Utility window appears again, click on button on the topright of the screen. (Be careful not to click on the [Eject] button.)



- Select the backup type, the backup time, and the backup camera, and click on the [Confirm] button to start backup. Then, "Write" LED of CD-R/RW drive will be displayed. Do not click on CD-R/RW drive button before backup is completed.
- 8 After completing backup, click on the Eject button of CD-R/RW drive.

(9) When "Direct CD Eject Option" window appears, select "Close to be read by all computers" field and click on the [Confirm] button.

(Select "Protect CD not to overwrite" field to prevent re-writing on CD-R/RW media where current backup data is stored.)

DirectCD 5,10 (115) (N: 드라이브) 꺼내기 옵션	? ×
directCD 📢	
CD를 끼냅니다	
꺼내기 전에 DirectCD를 사용하며 CD를 계속 액세스할 것인지 표준 CD-ROM 드라미브에서 읽을 것인지 결정하십시오.	
한상 그대로 - 드라이브 문자로 읽고 쓸 수 있도록 CD를 그대로 둡니다. 표준 CD-ROM 드라이브에서는 CD를 읽을 수 없게 됩니다.	.1
 UDF v.1.5로 닫기 - UDF v.1.5 Reader를 설치한 후 대부분의 CR-ROM 드라이브에서 읽을 수 있도록 CD를 닫습니다. 	
● 모든 컴퓨터에서 읽도록 닫기 - 대부분의 표준CD-ROM 드라미. 에서 자동으로 읽을 수 있도록 CD를 닫습니다. I▼ 다시 기록하지 못하도록 CD 보호	브
I✓ 다듬베 UD들 꺼별 때 미 선택 사양 표시	
도움말(<u>H</u>) 취소 확인(<u>O</u>)	31B

To close CD-R/RW media, the following window will appear. Wait until backup is completed.

🚯 DirectCD	5,10 (115) (N: 드라이브) 👂	<.
	표준 CD-ROM 액세스에 대한 정보를 쓰는 중	
₹⁄⁄		
	11	
	경과된 시간: 00:00:06	

After backup is completed, the following window will appear. Eject CD-R/RW media, and click on the [Confirm] button to back up data.

🚳 DirectCI) 5,10 (115) (N: 드라이브)	×
∼ A	CD를 꺼냈습니다!	
≦ 🦁	방금 드라이브(N:)에서 꺼번 CD는 모든 CD-R/CD-RW 드라이브 및 MultiRead CD-ROM 드라이브에서 읽을 수 있습니다.	
	🔽 이 메시지 다시 표시	
	확인	

CD Formatting Using InCD S/W

(1) [CD Formatting Using <u>InCD</u> S/W]

• When trying to back up data in an unformatted CD or receiving an error message after trying to back up data, format the CD by the following procedure:

• Insert a blank CD, and click on "Format CDR/CDRW" from "Data Backup" window. Then, the following screen will appear. Click on the "Next" button.



• Drive selection window will appear. Click on the "Next" button.

InCD 마법사		DVD RW CD-RW	X
SELECT	드라이브 선택 RIENTING VI HL-DI-SIGD-R	W GCE-85208 1.00	
	< 뒤로(<u>B</u>) 다음(<u>N</u>) > 취소	도움말

• In this window, information of the CD will be displayed. Click on the "Next" button.



• Set the CD name.

(If you do not want to define the CD name, simply do not enter the name.) After entering the CD name, click on the "Finish" button.

InCD 마법사	DVD	×
LABEL	러이블: Backup 참고: 볼륨 레이블의 문자 수는 11자 이하이어야 합니다. 홍백이 없어야 합니다. ● 포멧 ● 빠른 포맷(파일시스템 지우기) ■ 섹터 검색을 건너뛰면 처리 시간이 줄어듭니다.	
	< 뒤로(<u>B</u>) 파침 취소 도움말	

• The following is when formatting is being made.

(After formatting is completed, the next step will be automatically executed.)

FORMAT	물리적 포맷 중
	전행중인포멧.
	소요 시간: <u>00:00:02</u>



	DVD m GD-RW
FORMAT	논리적 포맷 중
	RW디스크를 논리적으로 포멧.
	9%
	소요 시간: 00:00:02

• After the CD is completely formatted, the following window will appear. (Click on the "Confirm" button to complete formatting.)



• After the CD is completely formatted, continue backup by the same method as those of the hard disk or movable drives (DVD-RAM, ZIP, MOD, ORB, etc.) (Refer to Page 32.)

• If a different message from the above is displayed, refer to InCD manual.



(1) [Setting volume function for 2Way Audio]

• In order to use Two-Way audio function, you need to designate yes or no selection for 'microphone' to receive voice from voice input coarse from "Record" window.

• Execute 'Multimedia' from Windows Control Panel.



• 'Select [Record] button from 'Multimedia properties' window then execute 'Recording control'.

Sou	inds and	Multimedia Properties
	Sounds	Audio Hardware
	- Sound F	'layback
	6h	Preferred device:
	VY	AC'97 Sound Card
	-	Volume Advanced
1	- Sound F	acording
(2	Preferred device:
	18	AC'97 Sound Card
		Volume Advanced
	- MIDI Mu	isic Playback
	1	Preferred device:
		Microsoft GS Wavetable SW Synth
		Voļume <u>Ab</u> out
	🗖 <u>U</u> se or	nly preferred devices
		OK Cancel Apply

• Select 'Option Properties' when recording control window is executed. .

Properties		SW/Sunth	Line In	PC Speake
 Advanced Co 	ntrols	Balance	Balance	Balance:
Exit				
Volume:	Volume:	Volume:	Volume:	Volume:
		- [-	11.	- [-
: :				
: :	:	I :T:	: :	:T:
- -	- -		- -	- ! -
Mute all	Mute	Mute	Mute	Mute

• Select 'Microphone' from "Properties" window and click [OK].

Properties	? ×	
Mixer device: AC'97 Sound Card	-	
Adjust volume for		
<u>Hayback</u> <u>R</u> ecording		
O <u>O</u> ther Headphones	<u> </u>	
Show the following volume controls:		Select Microphone' from "See following volu
 ✓ CD Player ✓ Line In 		control" list then click [OK].
Microphone Phone Line	-	 It should be setup as 'Microphone' free "Properties" window in order to use Two-W
	•	Audio function.
ОК	Cancel	

• When you select [OK] button, microphone item will appear as following (Recording Control) window.

Select 'Select' from 'Microphone' item.

Recording Co Options Help	ontrol				<u> </u>
Mono Mix Balance: Volume: Volume: Select	Stereo Mix Balance: Volume: Select	Aux Balance: Volume:	CD Player Balance: Volume:	Line In Balance: Volume:	Microphone Balance: Volume:
AC'97 Sound Card					\checkmark

[] [Caution]

• When 'Select' is not checked from 'Microphone' item, 2Way audio function will not operate normally.

• In order to use 2Way audio function, above information should be applied to Remote and site simultaneously.

- (1) [High class setting of microphone input for 2Way Audio function]
 - For 2Way Audio function, you must set the microphone volume function as shown below.
 - From a condition where volume control for microphone input is maximized but microphone's input
 - signal is weak, following setup will amplify the input signal.

• After running 'Multimedia' on control panel, select [Play] button on 'Multimedia Properties' to run 'volume control' window.

Sounds and	Multimedia Properties
Sounds	Audio Hardware
- Sound I	hyback
TAN.	Proferred device:
N №	AC'97 Sound Card
	<u>V</u> olume A <u>d</u> vanced
Sound	Recording
2	Preferred device:
18	AC'97 Sound Card
	Volume Advanced
	usic Playback
P	Preferred device:
	Microsoft GS Wavetable SW Synth
	Vojume About
□ <u>U</u> se c	nly preferred devices
	OK Cancel Apply

• Go to 'Options \rightarrow Properties' then, below window will appear.

🛉 Volume Cont	trol				
Options <u>H</u> elp					
P <u>roperties</u> ✓ <u>A</u> dvanced Co E <u>x</u> it	ntrols	Wave Balance:	Microphone Balance:	Line Balance:	Auxiliary Balance:
Volume:	Volume:	Volume:	Volume:	Volume:	Volume:
☐ <u>M</u> ute all <u>A</u> dvanced	<u> </u>	<u> </u>	<mark>I M</mark> ute <u>A</u> dvanced	<mark>⊢ M</mark> ute	☐ <u>M</u> ute

Properties ? X	
Mixer device SB PCI128 Mixer	Soundcard mixer is installed in the system.
Adjust volume for	,
Playback	
C Recording	 In order to use voice recording function
C Other	"Microphone" should be set from "Properties" tap.
Show the following volume controls:	
Synthesizer	
Microphone	
OK Cancel	

(2) [PC setup for use of Microphone from advanced mode]

• When the audio input through microphone is weak even in the maximized volume you can amplify the audio input by adjusting as follows.

· 'Advanced' button will appear under applicable columns when you select 'Option -> Advanced Controls

• You can go to 'Advanced Controls for Microphone' by clicking 'Advanced' on 'Mic' taps in 'Volume Controls'.

P <u>r</u> operties		Mana	Microphone	Line	Aunilian
✓ <u>A</u> dvanced C	ontrols	Ralance:	Ralance:	Ralance:	Relance:
E <u>x</u> it					
Volume:	Volume:	Volume:	Volume:	Volume:	Volume:
:] :			- - ::		
<u> </u>	<u> </u>	∏ <u>M</u> ute	Mute	<u> </u>	<u> </u>

• Please adjust the options to fit into your system and check the sound output from 'Other Controls'.

The aud	se settings can be use o.	d to make fine adjustments to you
one Controls		
These settin	gs control how the tone	e of your audio sounds.
Bass:	Low J	High
[reble:	í · ·	High
		1 1 1 1
ther Controls These settin vour hardwa	gs make other changes e documentation for de	s to how your audio sounds. See etails.
✓ <u>1</u> Microp	hone Boost	
		Close



• Click on 'Mute' which is circled on the left picture, if you do not want any voice output from a speaker that was inputted to the microphone but record the voice only or if you just want the output of searched voice from the speaker only when installing a microphone.

• When the system doesn't support 'Microphone Boost' function, 'Advanced' button may not appear. In that case you can solve it by using a more sensitive amplified microphone.

· Sound card must be installed properly to use voice recording function.



DW9200 Site(V4.100)

User Guide

DW9200



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1. Front side





Design of Front and Rear Side may be modified for product development.

2. Rear Side



Design of Front and Rear Side may be modified for product development.

3. Connecting PAN/TILT Drive



ICaution]

- Be cautious about (+),(-) of the signal line.
- Wrong connection of the signal line might cause damage.
- Please contact our distributor if you use other brand's RX Receiver.

4. Connecting by PSTN, ISDN, or Leased circuit D





4.2 Connecting PSTN, ISDN Modem






- 1. CON 1 : TRANS connection site
- 2. COM,24V,110V,220V : TRANS connection site
- 3. AC 220V /110V : Select AC input voltage
- 4. FUSE : 250V / 1A(control FUSE : RX Receiver's control Fuse)
- 5. FUSE : 250V / 2A(RX Receiver's voltage Fuse)
- 6. MAIN INPUT : main input voltage
- 7. LIGHT : output of AC input voltage. (connect to the power of lamp)
- 8. COMMON : 220 ,110, 24V : output of AC voltage (can be used commonly.)
- 9. CONTROL : WIPER, CAMERA, AUX : connect to the each connector's power
- 10. RIGHT, LEFT, DOWN, UP : Connect to PAN/TILT DRIVE
- 11. ZOOM, COMM, FOCUS : Connect to Lens
- 12. +, : connect to RS-422 signal line of BOARD(IO8816)
- 13. PWR : Power display LED of RX Receiver
- 14. TXD LED : LED displaying data transmission from RX-Receiver to IO8816(RS-422)
- 15. RXD LED : LED displaying data transmission from IO8816(RS-422) to RX-Receiver
- 16. PAN/TILT ADDRESS : Assign address when using a few RX-Receivers (assign from 00 to 99)

7. External sensor input Connection



One line of signal line for sensors such as infrared rays, heat perception, magnetic etc, should be connected to COM connector and the other line is connected to any sensor 1-8 connector which you selected.



8. External Control Connection



• When linkage/automatic control by exterior sensor, linked control terminal(setting up Input value at 'set control') and "COM" terminal gets connected.

- The control output connecting point is maintained "NO" at regular times.
- Connecting point turns to "NC" when control output.

[Caution]

- The power of adapter should be no more than 12V and 300mA.
- Additional external relay should be used to control on and off of device powered by AC input.

9. Connection Serial Cable (Input)



 \bigcirc

Serial Cable

Function:

- * Enables Sensor function
- * Enables Control function
- * Enables P/T/Z function
- * Enables Watch Dog function
- * Enables External monitor output function (Depends on model)

[Caution]

• Serial Cable must appropriately connected to COM1 Port and RS-232 in order to use the function above.

• Control and Sensor, part of the product which is not supported by P/T/Z may not include Serial Cable. Connection will be provided only for the product that supports control and sensor.

• If Serial Cable is not connected appropriately, system may not operate properly and even damage the system. Also, it may not recovered automatically.

(Product which is not supported by Control and Sensor, P/T/Z function uses its own auto recovery function.)

Warranty Information

Kaltec Electronics (referred to as "the Warrantor") warrants the Digital Video Recorder against defects in materials or workmanship as follows:

LABOR: For a period of (1) year from the date of original purchase, if Digital Video Recorder is determined to be defective, Kaltec will repair or replace the unit, with new or refurbished product at its option, at no charge.

PARTS: In addition, Kaltec Electronics will supply replacement parts for a period of (1) year.

To obtain warranty or out of warranty service, please contact a Technical Support Representative at 1-866-446-3595 Ext 242 Monday through Friday from 9:00 AM to 5:00 PM Eastern.

This warranty is extended only to the original purchaser. A purchase receipt or other proof of the date of the original purchase is required before warranty service is rendered. This warranty only covers failures due to defects in materials and workmanship which arise during normal use. This warranty does not cover damage which occurs in shipment or failures which are caused by products not supplied by the Warrantor or failures which result from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, modification, faulty installation, set-up adjustments, improper antenna, inadequate signal pickup, maladjustment of consumer controls, improper operation, power line surge, improper voltage supply, lightning damage, rental use of the product or service by anyone other than a Digital Video Recorder authorized repair facility or damage that is attributable to acts of God.

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There are no express warranties except as listed above. THE WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, WITHOUT LIMITATION, DAMAGE TO RECORDING MEDIA) RESULTING FROM THE USE OF THESE PRODUCTS, OR ARISING OUT OF ANY BREACH OF THE WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE.

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If the problem is not handled to your satisfaction, then write to the Address above. SERVICE CALLS WHICH DO NOT INVOLVE DEFECTIVE MATERIALS OR WORK-MANSHIP AS DETERMINED BY THE WARRANTOR, IN ITS SOLEDISCRETION, ARE NOT COV ERED. COSTS OF SUCH SERVICE CALLS ARE THE RESPONSIBILITY OF THE PURCHASER.



If you have any questions about this product, you may call: Kaltech Enterprises Tech Support Center 1-866-446-3595 Ext. 242 helpdesk@kaltech.net