ONIX - DVR

User Manual of DVR System

(Ver. 4.1)

ONIX SYSTEM INC.

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Forward

DVR (Digital Video Recorder) is a digital version of the existing analog tape type CCTV (Closed Circuit Television) which constantly needs a pile of video tape to record an amount of motion images and requires security administrators' heavy workload to search desired video images out of the analogue tapes. It stores the visual data into a digital format. The DVR is the remote surveillance over the network, data transmission, video copy and image search in advanced digital way, which is far superior to conventional CCTV security equipments.

Searching of data using the analog tapes is time consuming, as it plays through the entire tape. But with DVR, it is as easy to punch the date and time into the computer and you can see up to 16 camera snapshots at once on one monitor.

With CCTV, preserving recorded data was not easy task. DVR gives you the option of utilizing the latest backup technologies (DAT, CD, DVDs) to preserve large amounts of data in small storage volumes.

DVR works with sensors to control security systems which make it possible to close shutters or ring sirens when the sensor detects abnormal behavior. It allows user to retrieve data and control DVR systems from remote places.

Reliability, convenience in searching, storing data and flexibility in capturing images are some of the significant features which makes Digital Video Security System as the technology for the next generation.

This above type of DVR is one of very a few high-tech products that two or three world-class manufacturers can produce. Thus, Security managers in high-end surveillance markets such as professional financing & banking sectors, national-wide broadcasting companies, high-level surveillance service providers and many other backup systems are the major potential customers.

1. About ONIX-DVR

1~16 Camera Inputs

Up to 16 camera inputs are available for digital storage.

4 1~16 Sensor Inputs

Up to 16 sensors can be linked to the system.

1~4 Digital Outputs (Relay Outputs)

Digital Outputs can be used to activate things like shutters, sirens, and activation can be linked to sensor movement detection.

Sound Recording and Duplex Communication

Sound can be recorded with video images. The voices communications can be done using ONIX-NET.

Multi-Monitoring

The option views of cameras like 1, 4, 6, 9, 10, 16 snap shots on one monitor.

PAN/TILT/ZOOM/FOCUS Capabilities

You can control the camera by the ONIX-DVR program (Pan/Tilt/Zoom/Focus should be installed in the system). It can as well control the movements of Camera in different directions (provided if camera supports these directions).

Auto System Restarting

When ONIX-DVR detects a system error, it automatically restarts the system to correct the error.

Movement and Sensor Detection

It records the images when movements are detected as it would exclude unnecessary storage data and subsequently save the storage space.

Scheduled recording

You can schedule the program to work at a particular time. For example, recording data is only on specific time periods and days of the week.

Data Backup and Auto Backup

Data can be recorded onto different media (like DAT, CD, or DVD) and schedule recording in order to execute the whole Backup process as and when required

Digitalized Video Search

Recorded data can be reviewed digitally with each camera at a time or all at once., You can specify the date and time period of the search. You can also extract an image from the video to save separately or print it out or to edit.

Network Support (Modem, TCP/IP Protocol Support)

With network support, you can log onto ONIX-DVR from a remote system to search and download the video data. It also allows changing the settings of the operating programs.

Function	Specification	
Camera Input	16 Port (NTSC / PAL)	
Sound Input	2~4 Port	
Sensor Input	16 Port	
Digital Output	4 Port	
Composite Output	1 Port	
	(NTSC/PAL, Switching 16 CH)	
Image Format	MJPEG, MPEG	
Recording Mode	Watch, Normal, Motion Detection, Sensor,	
	Scheduled Recording	
Remote Control	Full remote control PSTN, ISDN, ADSL,	
	LAN and TCP/IP	
Back-up	DAT, CD, DVD	
PAN/TILT/	RS-232/422/485 Interface	
ZOOM/FOCUS	NG-232/422/405 IIItellace	

2. NOTICE OF INSTALLATION

PLEASE KEEP THE INDICATIONS OF PRODUCTS FOR THE MAINTENANCE OF ONIX-DVR WHEN YOU USE.

CAUTION

- DON'T PULL THE POWER CODE OR PUT THE HEAVY THINGS ON THE ONIX-DVR SYTEM
 - CAUSE THE ELECTRONIC SHOCK AND FIRE
- ♣ DON'T CONNECT BETWEEN THE POWER CABLE OR OVER THE CALBE
 - CAUSE THE ELECTRONIC SHOCK, FIRE AND OVERHEAT
- ♣ DON'T TOUCH THE ITEMS WITH WETTED HAN
 - CAUSE THE ELECTRONIC SHOCK AND BREAKDOWN
- ♣ ADVISE TO THE SPECIAL INSTALLER WHEN YOU INSTALL THE ITEMS
 - CAUSE THE ELECTRONIC SHOCK, FIRE AND OVERHEAT
- ASK THE AGENT OF ITEMS WHEN YOU MOVE AND REINSTALL THE ONIX-DVR
 - CAUSE THE ELECTRONIC SHOCK, FIRE AND OVERHEAT IF YOU DO NOT INSTALL CORRECTLY
- DON'T REASSEMBLE THE ITEMS OR CHANGE THE ITEMS BY ONSELF
 - CAUSE THE ELECTRONIC SHOCK, FIRE AND BREAKDOWN

CAUTION

- ♣ DON'T USE THE POWER CABLE WHEN YOU TURN OFF THE POWER
- ♣ DON'T USE THE SPRAY WHEN YOU RUN THE ITEMS
 - CAUSE THE ELECTRONIC SHOCK AND FIRE
- MIND THE WATER ON THE ELECTRONIC PARTS
 - CAUSE THE ELECTRONIC SHOCK AND FIRE
- DON'T RUN THE ITEMS WHEN YOU SMELL THE BURN AND STRANGE SOUND. PLEASE ASK THE AGENT AFTER YOU SHUTTLE DOWN THE ONIX-DVR SYTEM
 - CAUSE THE ELECTRONIC SHOCK, FIRE AND OVERHEAT
- WHEN YOU REPAIR THE ITEM, PLEASE ASK THE AGENT OR SPECIAL SHOP FOR THE ONIX-DVR.
 - CAUSE THE ELECTRONIC SHOCK, FIRE AND OVERHEAT

3. ONIX-DVR SYSTEM

3-1. **Front**





1. Cooling fan:

Spread off the inner heat for running the ONIX-DVR System safely.

2. Power LED:

It appears the Red color of LED whenever the system works.

3. HDD LED:

It appears the situation of HDD (If the system works, it is shown the yellow color)

4. 3.5" FDD:

It is available to use the 3.5" FDD.

5. CD-ROM:

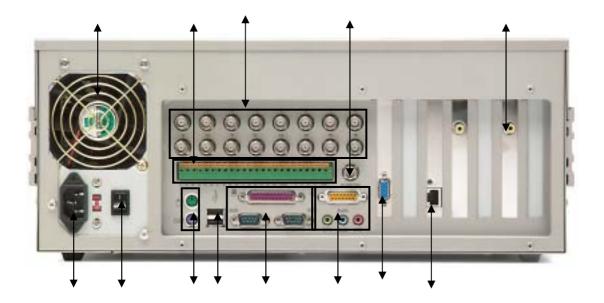
It is available to use the CD-ROM.

6. Power switch:

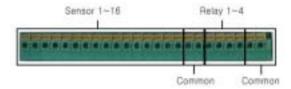
It is available to use the power switch for power on/off.

7. Lock Key

3-2. Rear



- 1. AC Cooling fan: The AC Cooling fan spread off the inner heat.
- 2. Sensor & Relay I/O connectors:



Please connect the Sensor and Relay I/O Connectors like above figured images Camera input connectors: It is available to connect the camera 1 up to 16.

- 3. Camera Input connector
- 4. Capture board composite output connector (TV-Out Function)

It is available to connect the Capture Board with CCTV monitor.

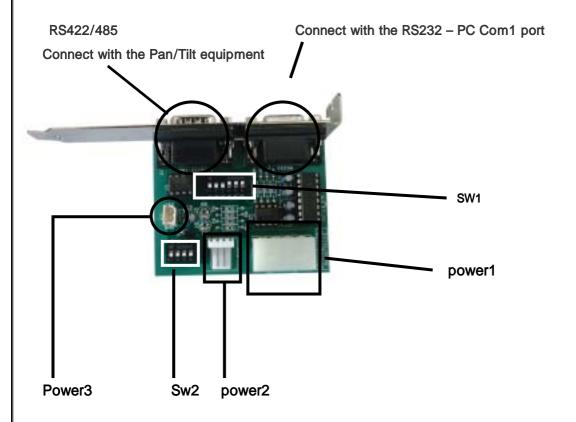
- 5. AC power socket: Connect the AC power cable.
- 6. AC power switch: it is the AC Power Switch.
- 7. PS/2 mouse connector & PS/2 keyboard connector
- 8. USB connector: It is available to connect with the USB.
- **9.** LPT, COM1, COM2 connectors: It is available to connect the parallel equipment (Printer) and serial equipment (Pan/Tilt 232).
- 10. Game, Sound connectors:

It is available to connect with the Game and Sound ports.

- 11. Video output connector: Connect the monitor.
- 12. LAN connector: Connect with the LAN cable.

3-3. RS232 TO RS422/485 Converter (Option)

This is the converter for controlling the Pan/Tilt. It works at the OSDK-60A/120/240 Frames Capture board, the way of Power connection and Receiver installation.



The way of exchange RS422/485 Converter

- In case of RS-422 In case of RS - 485

SW1 – 123(OFF), 456(ON) SW1 – 1,2,3(OFF), 4,5 (ON),6(OFF)

SW2 – 1234(ON) SW2 – 1234 (ON),

ie) The SW2- 4 is the switch of Terminator ON/OFF.

The way of power connection with the RS422/485 Converter (Choose one of below 3 ways)

- Power1 is the 5.25V of Power supply
- Power2 is the 3.25V of Power supply
- Power3 is the 5V into the ONIX-DVR board directly.

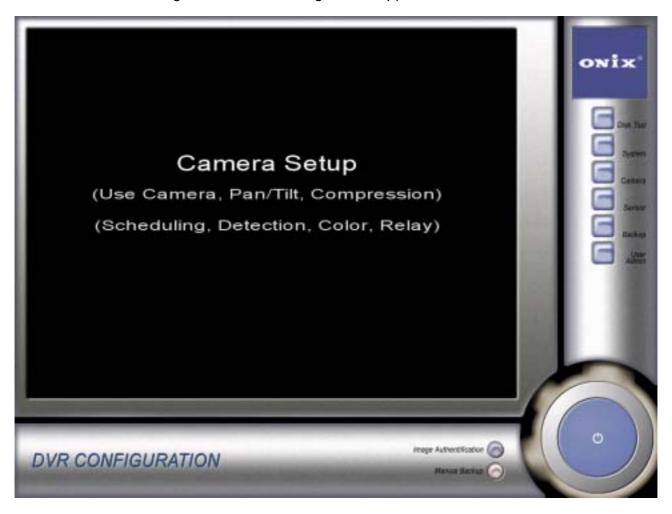


RS-422(Rs-485 Connector)	
Pin name	Pin number
- TxData	1
+ TxData	2
- RxData	3
+ RxData	4
Signal	5

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4. Configuration

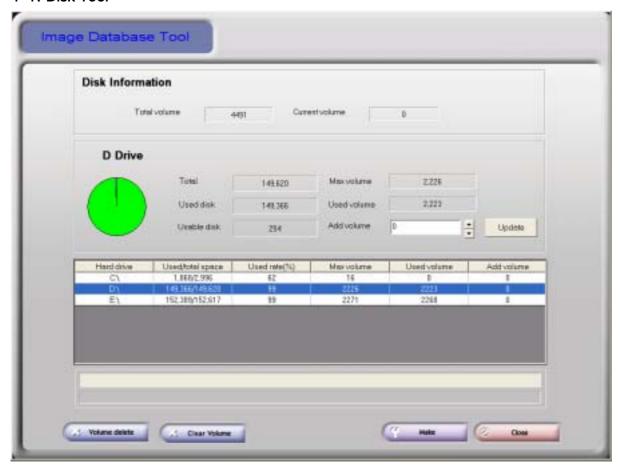
Start "ONIX-DVR Setting", and then following screen appears.



ONIX-DVR is to operate in accordance with the setting in this Configuration.

- ♣ **Disk tool** Creates the ONIX-DVR file system. (ONIX-DVR program will create its own file system, so that the large amounts of data will be stored safely without loss of data.)
- System Settings for network connecting options, initial set of screen, sounds, automatic restarting, etc. will be done.
- Camera Setting up to 16 cameras and the digital outputs and scheduling for recording time will be done.
- Sensor Settings for up to 16 sensors are provided.
- Backup Settings for the automatic backup is provided.
- User admin Administrator can allow the control levels to operators.

4-1. Disk Tool



- Total Amount of hard disk space.
- Used Disk Amount of current using hard disk space.
- Usable Disk The amount of hard disk space which could be used.
- Max Volume Providing maximum amount of volume.
- Used Volume Amount of volume which is currently used.
- Add Volume Define volume to use in this place.
- Volume Delete Delete all of the Volumes which are selected in the Drive.
- Clear Volume Delete the volume on the saved data. (It is not available to delete the volume)
- Make Create volume as much as the specified volume in "Add Volume"

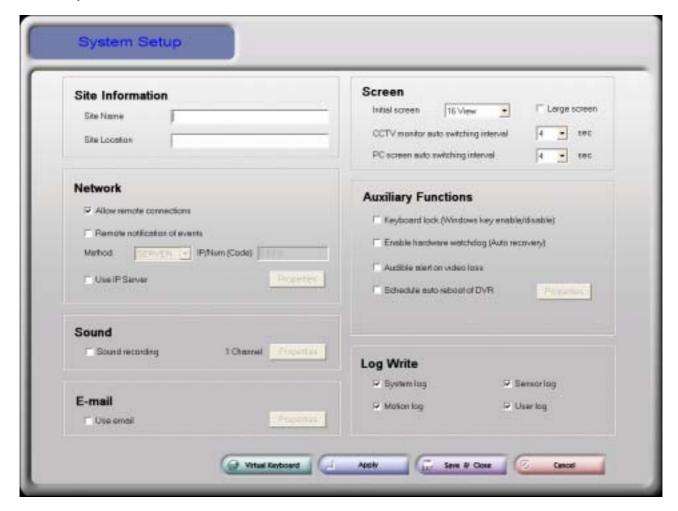
What is the volume?

It is the unit of DVR file system. The Capacity of volume is 60MB, and the image data are stored in volume. If data are filled in volume, new data are covered from the beginning volume again.

After selecting in the "Add Volume" quantity of volume to use, click "Add" button. After adding the volume, click on "Make" button to create ONIX-DVR file system in the selected drive.

It is possible to select the drive to setup in the chart.

4-2. System



* Site Information

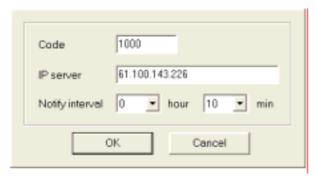
- Site Name: Define Site Name

- Site Location: Define Site Location

* Network

- Allow remote connections: Define whether allow connecting from remote site or not.
- Remote notification of events: When motion or sensor happens, define whether notify the network program or not. (If you notify any events to the network program, you must setup the IP address of system that the network program is installed in the "Num")

- Use IP Server: PLEASE USE THE FIXED IP INSTEAD OF THE FLEXIBLE IP



Code: UNIQUE CODE OF USING IN THE SERVER INSTEAD OF OWN IP (ENGLISH / NUMBER 5 CHARACTER)

IP Server: IP WHICH MANAGES THE ONIX-DVR System

Notify Interval: Notify shall be sent just one time in this time interval

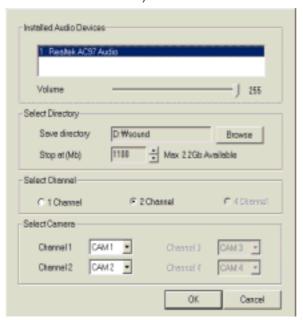
CAUTION:

- 1. CODE IS THE 5 CHARTERS AND SHOULD BE THE ENGLISH/NUMBER. PLEASE DISTHINGUISH THE BIG/SMALL CHARTER
- 2. IT WILL BE AVAILABLE TO CONNECT THE LATEST ONIX-DVR SYSTEM WHICH IS USED THE DIFFERENT IP IF YOU GIVE THE SAME CODE.

* Sound

- Sound Recording: Choose the sound whether you save the sound or not (for the network program and multi-communication.)
- Selected Channel: Choose the channel you want to save the Sound
 (It is available to the 1Channel, 2Channel, 4Channel. 1Channel and 2Channel has the 1pcs of sound key. The 4Channel should have the 2pcs of sound key.)

 The below figure is shown the 1pcs of sound card and it is available to save the \ 2 channels of sound)

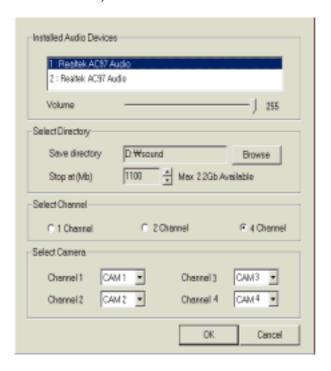


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ONIX-DVR (Digital Video Recorder)

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The below figure is shown the 2pcs of sound card and it is available to save the 4 channels of sound)



- Installed audio devices

: The First Sound card (Realtek AC97 Audio) is available to save the sound of programmed channel 1 and channel 2

The second sound card (Realtek AC97 Audio) is available to save the Channel 3 and Channel 4 when the camera is set.

- Volume: Set the size of volume when one saves the sound.
 - : The size of volume is 1 to 255. (It is not available to save the sound if the volume is too low. Please set the volume at 255 basically.

- Select Camera

: set the camera number which is the connected camera per channel.

Click the 'OK" button after setting up the each Channel.

And then, it may give the valued section of Save Directory and Sound.

(Saving volume of sound = MAX volume – Stop at volume),

The Stop at volume is that the Swap & untrue table and so on needs to get the above 300MB if you save the sounds into the running ONIX-DVR hardware.

Caution:

- 1. Use the install above Direct X 8.0
- 2. When you connect the sound card to mike (amplifier Mike), you should connect the "Line-Input."

You must use the cable for connected mike when you use the channel 2 to 4.

* E-mail



- Reboot Notify:

There is the notice function of E-mail whenever it starts the Main program.

(Even it is OK if you use the flexible IP and it is possible to connect with the NET whenever you require.)

- Event Notify: Indicate the events (motion & sensor) though the e-mail.
- SMTP Server:

Please set up the sending mail server IP which is your ordinary for transfer the mail. (Please ask the sending mail server IP to the IP service company if you don't know the IP address.)

- From: set the E-mail address

(if not the address, please use any address you want. abc@abc.com)

The name of sending mail is transferred by the mentioned Site name.

- To: set up the receiving e-mail address
- Subject: title of sending e-mail (please write the any tile you want)
- Content: contents of sending e-mail (please write the any contents you want)
- Attach image: By clicking this, image clips are able to be sent with e-mail upon notification of the events
- **Send Interval:** It is the function of sending the e-mail per set interval of time.

It is available to make the messages which are included the Subject and Contents as below;

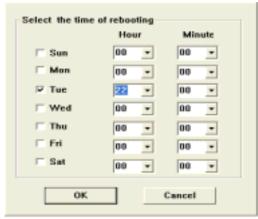
\$\$0	Camera No.
\$\$1	Kinds of event
\$\$2	time
\$\$3	IP address

* Screen

- **Initial screen:** Select the number of partitions in the initial screen. (All the divided camera images will be shown on one screen.)
- Large screen: When the ONIX-DVR is run at first, it gives the option to view in full screen.
- CCTV Monitor Auto change Interval: The images used to exit from the Composite-Out jack. The image per each camera will exit when the image exits from the Composite-Out jack. At the same time, you can set up the time which is the changed camera pictures.
- PC Screen Auto change Interval:
 You can define the switching picture on the monitor automatically.

* Auxiliary Functions

- Keyboard locks (Windows key disable/enable)
 - : It is possible to set the Shift, Ctrl, Alt, Windows key for NON-working.
- Enable hardware watchdog (Auto Reboot)
 - : It works the rebooting when has the strange things on the System automatically
 - Audiable alert on video loss
 - : Please choose the beep sound or not when the loss of camera videos.
 - Schedule auto reboot of ONIX-DVR
 - : It is available to set the Re-boot of wanted date and times if one hopes to restart the ONIX-DVR system automatically. (Caution: It is not available to run the ONIX-DVR Main when one does the RE-boot the system. So it needs to add the ONIX-DVRMain.exe on the Start program of Windows for working the ONIX-DVR Main with RESTART)



* Log Write

- Store the each login information in the C:\ drive when select the system, sensor, motion and user.

After finishing the setup, click the "Apply" button.

4-3. Camera

4-3-1. General



Select All

If click this, every of settings in "General," "Schedule," "Color & Motion" becomes same as for all of camera. This button is effective when all of settings for all cameras shall be same as settings in No 1 camera.

Setup to click the button of each camera on the left side.

- * Enable Camera: Select the required camera.
- * Basic setting
 - Camera name: Name of camera to be placed.
 - Camera Resolution: It is available to set the wanted size of images.

(The bigger is the size of images, the slower is the speed.)

- * Adjust camera frame rate
 - Maximum averaged frame rate: Select storage to maximum speed at capture board.
 - Select frame rate by camera: Adjust recording frames per second.

* Security

- **Hide Camera (Display):** The images of the camera will not be shown on the monitor.
- Remove from CCTV display: Do not send images of PC to CCTV.
- Remove from network display: it is not available to support the images to NET

* Compress Method & Rate

: Select the format of the image to be stored (JPEG, MPEG) and adjust the compression rate.

* Transmission Compression

: Select the image format to be transmitted to the network (JPEG, MPEG) and adjust the compression rate.

* Pre & Post alarm recording

(When only use Motion or Sensor in Scheduling, it is applied.)

- **Pre:** When motion or sensor operate, store from former images by setup value.
- **Post:** After the activity of motion/sensor gets finished, it will store the processed images.

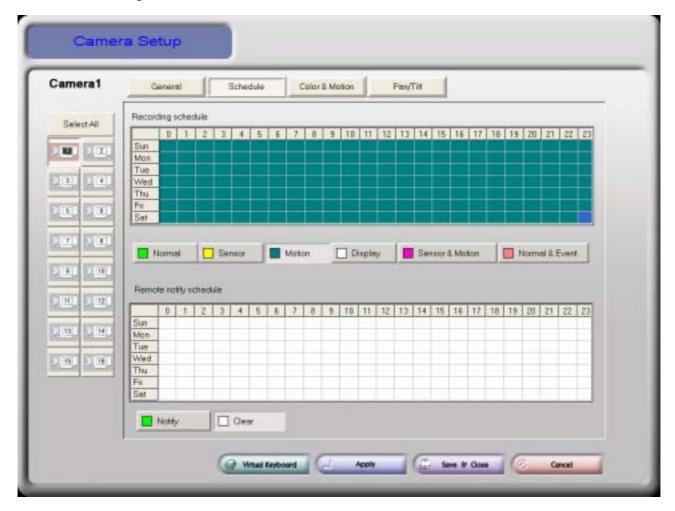
* Event notify method

- Audible warning on event: When events come out by detecting motion or sensor, it goes off the beep sound. At this time, Red mark is shown on that screen. If click on that screen, the beep disappears.
- When a video loss happen, relay out: It is used for activating a relay-out when video loss happen to be arisen.

What is Frame? Frame is a single image.

After setting up, you should click "Apply" button.

4-3-2. Scheduling



Setup scheduling for each camera, and then it is available to store the images on the fixed day and time.

* Record scheduling

- Normal: Store all input images.
- **Sensor:** Store images for only sensor input signal.
- Motion: Store images for motion signal
- **Display:** Display the images on screen
- Sensor & Motion: Store for both sensor and motion signal
- Normal & Event: The rate of storing and saving are depended on the activity rate of the motion.

* Remote Notify Schedule

If you select day and time to transmit, it is available to transmit data by network program.

- Notify: Set up day and time.

4-3-3. Color & Motion



It is available to adjust color of image, and select digital output at scheduling.

- * Relay Options (Apply only motion selection to scheduling.)
 - Use Relay: Select if any digital output is used.
 - Port 1~4: Select devices to use.
 - Relay Time: After the movement of image, move device after selecting second.
- * Detection Area Setting
 - Whole area: Motion detection in whole area
 - Partial area: Motion detection in defined area
 - Display detected area: You can test about motion detection.
- * Motion Setting
 - Sensitivity Adjustment: Sensitive ratios are lower, sensitivities are higher.
 - Rate of motion: Adjust ratio of motion

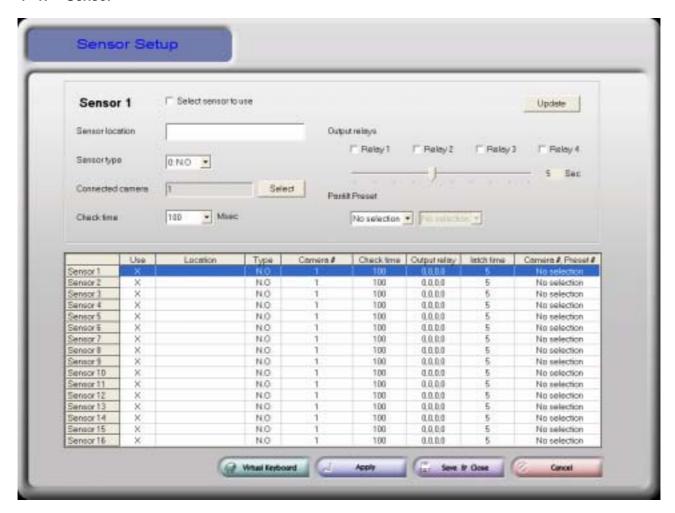
4-3-4. Pan/Tilt



- * Use pan/tilt camera: Check to enable Pan/Tilt options.
- * Communication option
 - Select: Select the maker/model receiver for application
 - Port: Select the serial port to connect to the computer
 - Speed: Set the speed of the Pan/Tilt option. (It depends on the camera equipment being used)
 - Parity, Data bit, Stop bit, RS 232, RS 422: Set in accordance with the Pan/Tilt equipment manual.
- * Open: This is for PTZ configuration. Click "Open "then, it come to port to be opened.
- * Close: This is for closing PTZ port.
- * Speed
 - P/T: Speed adjustment of Pan/Tilt
 - F/Z: Speed adjustment of Focus / Zoom
 - A.P: Speed adjustment of Auto scan

- * Camera menu: If clicks, you can see the menu for PTZ devices.
- * Functions: At function, many tabs can be used for moving up/down, left/right and to activate the focus and zoom.
- * Auto scan
 - Auto scan: It makes scanning from "Star scan" to "stop scan."
 - Start scan: It defines the starting position of PTZ.
 - Stop scan: It defines the ending position of PTZ.
- * Preset
 - Preset setup: This helps PTZ to memorize No. of the appointed locations to go, up to 10 locations. For example, how to set the preset at no.1 is like this. Click "preset setup" and "No. 1" Tap, and Move PTZ to the desired location and stop and depress the taps of "preset setup" and "No. 1."
- Note: 1. Definitely click "close" after set as you want by clicking "Open"
 - 2. Depending upon PTZ type, activating items such as auto scan, camera menu, preset, speed etc, may be different when click "open." For further specifications for PTZ, please refer to PTZ manual supplied by PTZ maker.

4-4. Sensor



It allows to install all the cameras and to select camera to store and to connect with digital output.

- * Selected sensor to use: Check sensor to use.
- * Sensor Location: Installation manager can define sensor location.
- * Sensor Type: Setup motion mode as high/low for sensor input signal.

Sensor activating when sensor signal come: 0-NC

Sensor disabling while sensor signal come: 1-NO

- * Connected Camera: Select the camera to operate by operating with sensor input signal.
- * Check time: Check the operation of sensor every defined time.
- * Output relays: Define port to use.
- * latch time: Define the time of sensor output signal. If sensor runs, the digital output will be operated accordingly, as you set up time
- * Camera#, Preset#: Sensor Point(Cam, Preset), this column is used in designating the camera no. in line with PTZ and Preset point to be moved, right after the sensors triggered. It allows to select 1~16 sensors for one camera only.

4-5. Backup



It allows to backup automatically if you have already setup the backup schedule.

It does not allow running at a particular time but it does with regard to date. But it is possible to run by the day of the week.

- * Use schedule: Select if the auto backup schedule is should be used.
- * Scheduling: Select the day of the week in the chart.
- * Hour, Minute: Define hour and minute to start auto backup.
- * Camera Selection: Select all of cameras to auto backup.
- * Backup Device Setup: Select the backup device

(It is available to get the back like the CD, DVD and so on. The CD, DVD and so on will be appeared by the DRIVE.)

Ex) The HDD has the C: D: The CD is E...

* Start backup timer: On rebooting, clicking this undertakes the Back-Up setting to be stored in resident memory. (This event is likely to be recognized with appearance of the tray bar at screen, bottom right-sided.)

When you finish the Setup, you should click the "Update."

The Backup will be done from the point of finish to the place where it got started. (If you get the Backup at the first time, it will start the Backup from the begin of the stored data.)

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<< Example >>

(1) Backup at 20:00 every day means

If it sets the backup time as 20:00 every day. Then backup will carry out every day from 20:00:01 of yesterday to 20:00:00 of today.

(2) Backup every a week at 20:00 every Saturday

If have backup settings as 20:00 every Saturday, then backup will perform every Saturday from 20:00:01 of last Saturday to 20:00:00 today(Saturday).

When finished the Backup settings, be sure to run backup.exe(at manual backup) file before starting main program, Otherwise scheduled backup will not work automatically.

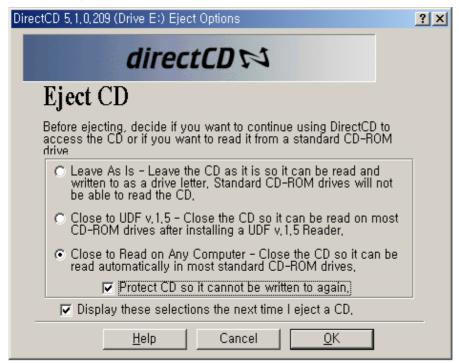
<< Note on CD Backup >>

If you want to make back-up with CD, you need to install Direct CD and run format CD by selecting "format CD."



After run CD format, do configure the schedule, in accordance with back-up menu, explained, and take the back-up upon finishing backup, select "Close to Read on Any Computer" as following figure before take out CD.

And next, press "OK"



Note: 1. please use Direct CD 5.1 or higher version.

2. In case of back-up data made by CD RW, CD data may be not read because property is not checked with "read." But, no problem if it was made from CD-ROM.

4-6. User Admin



* User Name: Define user name

* Password: Define password

* Confirm Password: Confirm the defined password

* Security level: Choose the Administration Level.

* Authority: Assign a level of authority to operator (set-up, system booting, PTZ/Image, backup, search, access to Network) Assign the authority level to operators by admin.

(Always, Top authority shall be assigned to Admin.)

When you register the Admin user, please put the registration after you click the "ADD/Modify." When you want to change the right of Admin, Name, Password, you can change after you choose the modifying Admin user.

Please click the "Delete after you choose the previous delete admin.

5. USER MANUAL

5-1. Main



After setting up environment (ONIX-DVR setting), you should run the main program.



Monitor Adjustment. If you click each image of window, you can watch the displaying images for 1, 4, 6, 9, 10, 16 partitions screens.



- If you click "an arrow" button, you can watch the next screen.



- Switching the camera image automatically



- If you click "+" button, it is available to enlarge to the full screen.



- If you click "-" button, it is available to return to the original screen.

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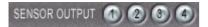
Display the conditions of 1~16 cameras.

If display the image in central, it means to input image from camera.

If the image is flickering, it indicates that camera is not yet connected.

Below images means to store images from camera.

Without images mean that it is not the stored images.



You can verify the conditions of 1~4 digital outputs. If the button is pressed, digital output is operating, if not, no digital output is present.



"If you click the first button, run the "DVR Search" program. (Do not stop the DVR Main) If you click the second button (main program is finished automatically), execute "DVR Setting" program, and then it is available to setup environment.



- RED button indicates to quit the main program.



Display current day and time.

The number and bar in the bottom shows the amount volumes and used volumes.

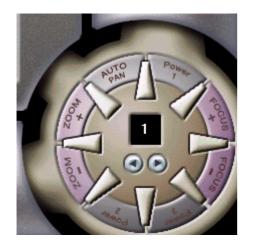
The images on the right side show if system is connected to the network and whether the backup is being run.



Clicking "Open" tap makes the cover of Pan/Tilt or Image control open.



Click "CAMERA" to use the CAMERA CONTROL options. And click "IMAGE" to use the IMAGE CONTROL options, for tuning the image color.



If you click the triangle buttons in up and down, you can select cameras. If you click the triangle in the circle, you should adjust Pan/Tilt in direction of top and bottom, right and left, high and low, diagonal line.



When you click "IMAGE CONTROL," the button appears in order to adjust brightness, contrast, saturation and hue. It is possible to select camera.

: Click "Default Button" to return all of settings to Default Color settings.

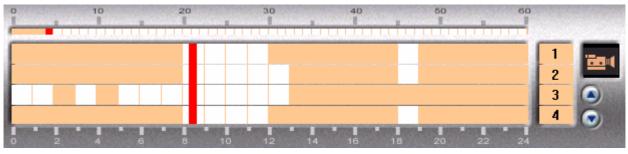
5-2. Search



You can search the stored images data by the day, time. You may copy the store or output images whenever you want.



You can search the stored images by 1, 4, 9, 16 partitions at the same time. In single screen, it is available to enlarge or reduce the image.

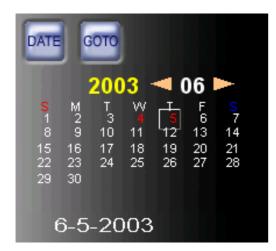


Stored data is displayed by the camera, hour and minute, click wherever you want to see the stored images.

It you click the camera image; it allows to search the stored image with sound. It you click up and down button, it allows to search camera to change 1~4, 5~8, 9~12, 13~16.

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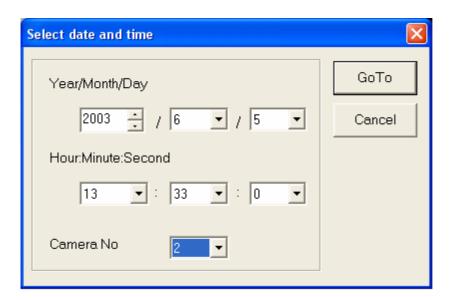
It is available to click to date you want.

If you click "Date" calendar, it may appear.



: If clicks "GOTO," Following Dialogue

box is appeared.



On this menu, select time and date to be searched directly and Click "GOTO." Then the stored image files appear if the stored data exists as effective of that date and time. If not exists, the data, at the closest to that date or time, are searched.



If you click "Save As" button, it may store the current image.

If you click "Print" button, it may print the current images.

If you click the "AVI Saving" button, it may save the images from the current image to the time of stop images.

If you click "Search" button, it the button to play image appears.

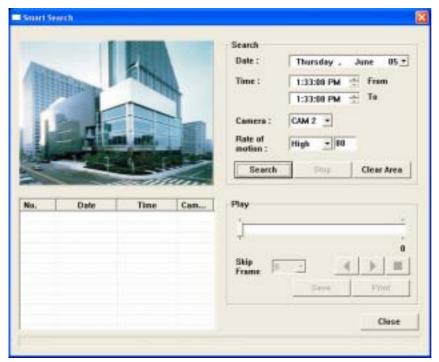
If you click "Image tool" button, image compensation button appears.



Finish "DVR Search" program.



This is a new features which can get rapid searching for each of desired conditions such as every date, every time and every camera, by limiting the searching parameter to specific "rate of motion" and searching of specific area (marking the area using the left-button of mouse).



Date: date to be searched **Time:** time to be searched

From: starting Time to be searched
To : ending time to be searched
Camera: camera no. to be searched

Rate of Motion: No. of recording sensitivity at the area to be searched.

Note; The higher No. of "rate of motion," the higher sensitivity it has, the higher sensitivity has more precise detection. But it needs more data and takes more time to search. The Sensitivity is ranged to High: 80, Middle: 60, Low: 40. But by directly inputting the value, the results may be different.

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- * Search: search the images per preset data.
- * Stop: It stops smart searching.
- * Clear Area: It deletes the designated area for smart search.



No.: It indicates the total no. of image files searched by smart searching.

* Skip Frame: If you feel inconvenient in handling the huge stored data, you can make the data file reduced to compact data file by skipping as much as the set values.



These tabs are used for "Play", "reverse Play," "Stop" when searching data.

- * Save: It makes saving of data searched by smart searching function. (When used JPEG compression, save file is made with .JPG. But if it is MPEG, Saved file will have .bmp file.
- * Print: It prints the searched data by smart search function.
- * Close: Close the smart searching process.



If you click "Search" button, "SEARCH" appear as follows. You can search the image backwards and forwards.



If you click "Image tool" button, "Image Tool" appears as follows. You can adjust Zoom I/O, Sharpen, Soften and B&W.

5-3. Backup



It allows to backup by manual control.

If you setup the backup schedule in the setup environment, the backup function will run automatically by the backup schedule.

- * Select date for backup: Select camera, day, hour and minute for backup.
- * Media Path Information: After you make the new folder, you should double click drive or new folder which you want to save the images.
- * Auto Startup enable: After setting up backup, you do not execute backup immediately' and check the "Auto Start up." It may run "DVR Backup" next time, start backup automatically by setup value.



Delete all of the confirmed Setup values.



Start back up by Setup value.



It provides the departure time and close time of backup.



Run "Backup Viewer"



It may get into standby conditions on the Backup program



Finish "Backup" program

Whenever you want to copy the Backup data to the other location, you should match the folder name (Date/Camera/Time) with the previous saved Backup Folder name.

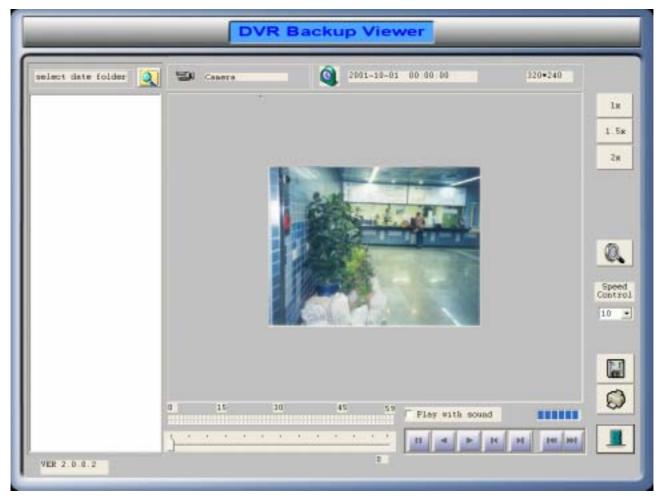
It allows copying one of the saved images which you want to copy.

Each Backup file should be saved by the miniatures.

Ex: the data file is like the 1.dat, 12.dat, 50.dat.....

It means the files of 1 min, 12min, 50 miniatures.....

5-4. Backup Viewer



As the Backup data, it allows to search in the "Backup Viewer" program only. You can read data by the day.



Read the Backup data by the day.



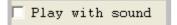
Display the stored data by the camera and hour. Select camera and hour which you want to search.



Display the stored image data in the red zone. The scale indicates that it is a minute. It is able to move the wanted miniature by the scroll bar.

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If stored sound data co-exists, by checking this Image may be viewing with sound performances.



: The buttons are for use in order of stop, play back, play, one frame back, one frame forward, end of back, end of forward, viewing from the staring left button.



: Save image



: Print image



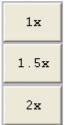
: Close and Exit "Backup Viewer.



If you take a selection to be enlarged by dragging the mouse the area can be shown as enlarged



: Play speed is adjustable by selecting the number. (1-10)



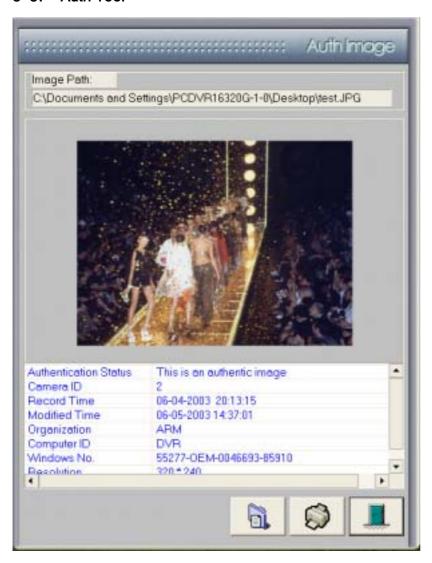
By selecting this Tab, image size can be enlarged as much as 100%, 150%, and 200%



: Status bar of playing speed

- Image Control: while leading the mouse appoint to image area, Clicking right side button of mouse, then the image control menu (Sharpness, Softness, Black/White, Cancel, Original) come out so that you can adjust as you want

5-5. Auth Tool



This program may recognize the images which may be saved the Search or Backup program. It allows distinguishing the original saved images with the edited images by someone. It is impossible to edit the saved images like the original saved imaged by the ONIX-DVR.

: Call the files which you may distinguish the original saved imaged with the edited imaged by someone. If the saved images are true, it is possible to be shown the above data. If the saved images are untrue, it is impossible to be shown the above data.



If edit the image, it is not output image.

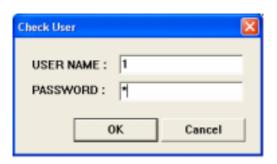
6. Appendix

6-1. ONIX-DVR Management

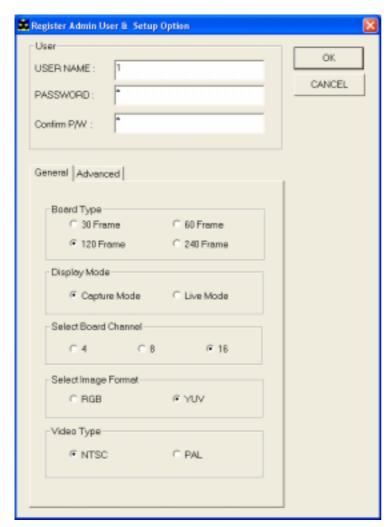


In the folder, which DVR installed, you can see the icon like the left-sided figure with name of "START.EXE."

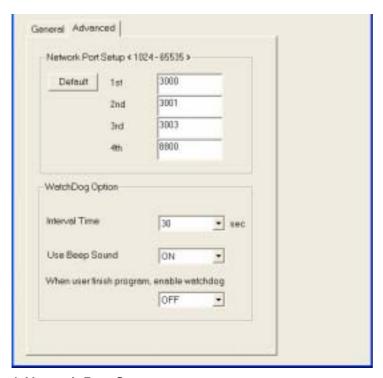
Run "START.EXE," Then check user dialog box will appear.



- * USER NAME: Type Name of Top manager.
- * PASSWORD: Type Password of Top manager.



- * Board Type: Type the frame rate of board you installed.
- * Display Mode: When live (display) board is installed in parallel, select what board type you make to be used for display on main screen.
- * Select Board Channel: Type the channel no. of board you installed.
- * Select Image Format: Select the image format type, which was set to YUV as default.
- * Video Type: Select the camera type which is available at your locations.



* Network Port Setup

- 1 st ~ 4 th: Type the port no.s for Network.
- Default: Click Default, Then it sets as default.

* WatchDog Option

- Interval Time: it sets the time of beep sound.
- Use Beep Sound: it allows going off beep sound by selecting "on."
- When user finish program: it allows to go off beep sound when program finish to run by selecting "on."

Upon finishing these configurations, Type user ID and Password of top manager and tap "OK."

Product specifications and contents may are subject to change without notice.