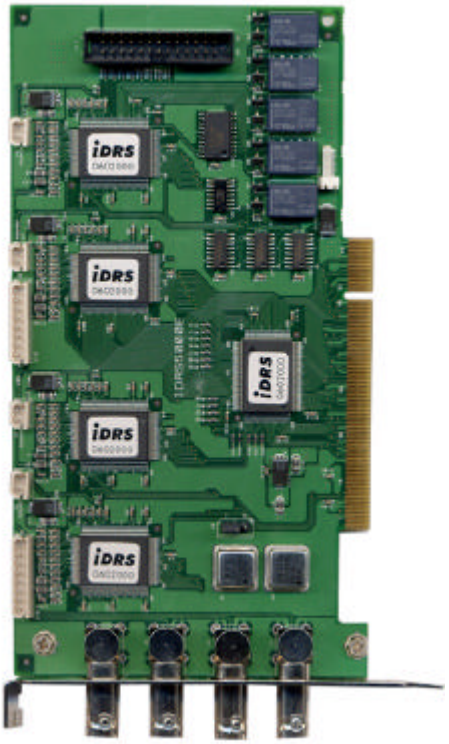
OPERATION MANUAL

[iDRS-5000]



EASTERN INFO-COM INC.

http://www.easterninfo.com

FCC NOTICE

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC FULES.
OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITION:
(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND
(2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDERSIRED OPERATION.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures :

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

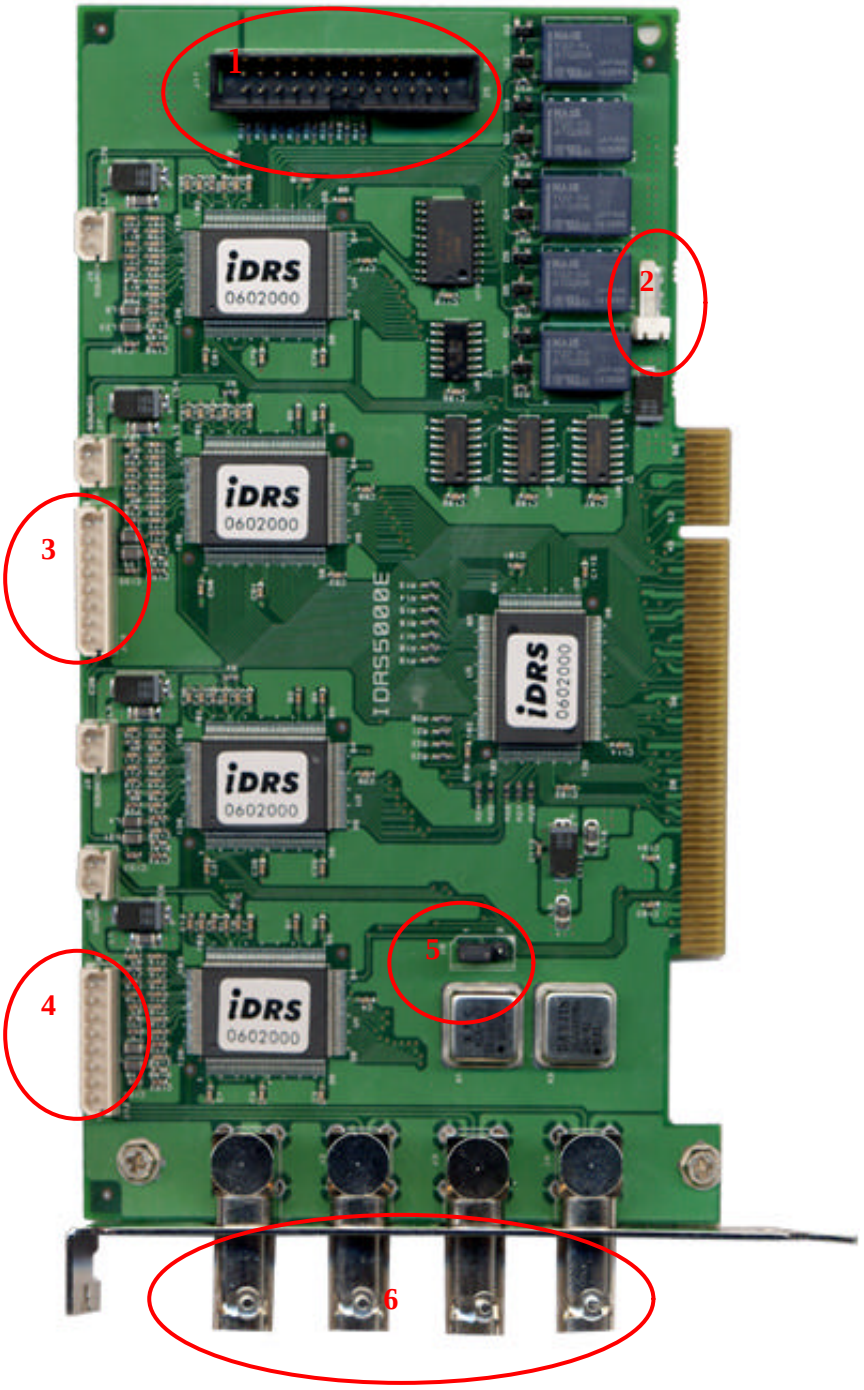
- Connect the equipment into an outlet on a circuit difference from that to which the receiver is connected.

- Consult the dealer of an experienced radio/TV technician for help.

NOTE : The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

1. iDRS-5000 Board Manual

1. Video Channel : 4CH, 8CH
2. Record Fream
   - Display : 100/120(fps)
   - Recording : 100/120(fps)
3. Sensor/Alarm
   - DI : 8EA
   - DO: 4EA
4. Recording Resolution : 320 x 240
5. Board Minute explanation



① DIO Cable Link Connector
② Watch dog Cable Link Connector
③ Video Channel 1~4 Connector
④ Video Channel 5~8 Connector
⑤ NTSC/PAL Select Connector
⑥ Video Channel 1~4 BNC Connector

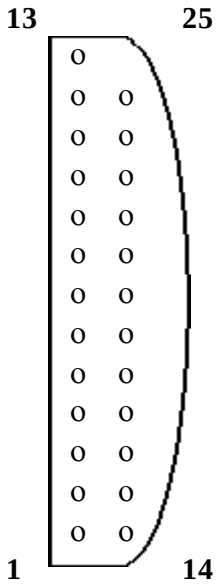
7. Notice .
- When in using ③,④ you need some ‘guide fins’, made by Eastern Info Com

8. NTSC/PAL Select
- PAL is on PCI Slot side
- NTSC is on the other side

9. DO Execution : NO NC COM

10. Driving Program
- Use only iDRS-Programs, Provided from Eastern Info Com

iDRS-5000 Digital DIO Pin Configuration



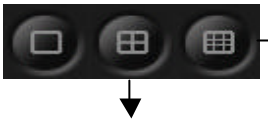
Pin #	I/O	COLOR
1	Sensor 1	BLACK
2	Sensor 2	BROWN
3	Sensor 3	RED
4	Sensor 4	ORANGE
5	Sensor 5	YELLOW
6	Sensor 6	GREEN
7	Sensor 7	BLUE
8	Sensor 8	PURPLE
9	GND	BLACK
10	GND	BLACK
11	GND	BLACK
12	GND	BLACK
13	GND	BLACK
14	D/O 1 NC	WHITE
15	D/O 1 COM	GRAY
16	D/O 1 NO	BLUE
17	D/O 2 NC	WHITE
18	D/O 2 COM	GRAY
19	D/O 2 NO	YELLOW
20	D/O 3 NC	WHITE
21	D/O 3 COM	GRAY
22	D/O 3 NO	ORANGE
23	D/O 4 NC	WHITE
24	D/O 4 COM	GRAY
25	D/O 4 NO	PURPLE

2. Power On

1. To check your camera image, You should turn on cameras, monitor, sensor, etc, before you turn on iDRS-5000.
2. Turn on iDRS-5000.
   [POWER] lamp will light on, disk check(red LED) blinks then WINDOWS 98 starts. After booting main screen will appear as follows.
3. Main Screen

1) Activated icon will be turned green and show TIP of each icon, when mouse pointer get close to each icon. Inactivated icon will be turned yellow.
2) When consecutive recording, red lamp is displayed in OSD(Camera Name).
3) When motion recording, blue lamp is displayed in OSD(Camera Name).
4) When sensor recording, yellow lamp is displayed in OSD(Camera Name).
5) When [Record] lamp is on and off, it is consecutive recording, [Motion] lamp is on and off, it is motion recording, [Sensor] lamp is on and off, it is sensor recording.
6) Put your mouse pointer to image screen, click left button to enlarge corresponding screen. And click right button to extend to full screen.
7) Click right button in full screen mode to back to main screen.

8) [System Shutdown] If you click this icon, confirmation message will appear as follows.
If you select [OK] system will be shut down and automatically power OFF.

9) Single-Screeen Rotational Display ←  → All-Channel Display.

↓ Quad(4)-screen Rotational

10) [Motion Tracer] Enlarge a screen in which the motion is detected.

11) [Set up] Change iDRS-3000 set up configurations. (Refer to the ‘ 2. Set up Change’)

12) [Image search/Playback] Search recorded image. (Refer to the ‘ 3. See * 3. Image Search)

13) [Camera ON/OFF] Camera ON/OFF icon. When P/T control select camera as 13).
If you click this icon power off th4e corresponding camera.

14) Camera Pan/Tilt Control Button.
[◀ - left / ▶ - right / - up / - down]

15) [Zoom] Control motorized zoom lens.

Zooming In ← → Zooming Out

16) [Focus] Control camera lens focus.

Focus gets closer. ← → Focus gets further.

17) [Light ON/OFF] Control Lighting Equipment.

18) Clock : Indicate present time and date.

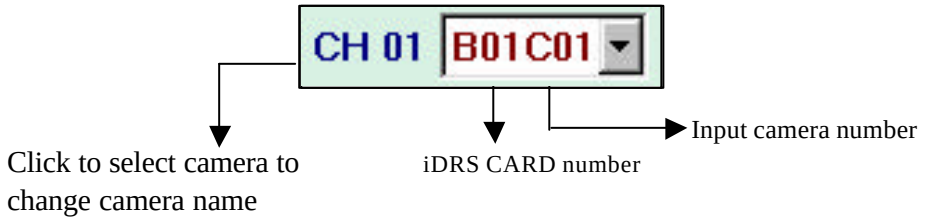
19) In case you need to shut down the system by force, push POWER button for 4-5 seconds. But shutting down by force may cause fatal damage to the system itself and data. Please always use [Shut Down] button.

3. Set up change ( )

1) [Camera set up]

▶ Put each camera name for OSD(On-Screen Display) zone.

▶ Set up each camera.

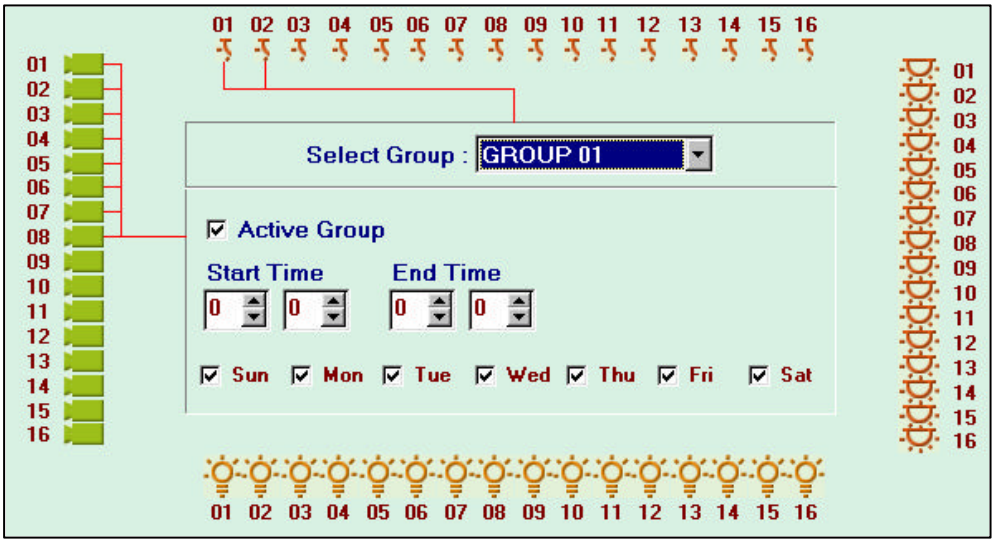


▶ If you click Auto Setting system will automatically detect connected camera.

▶ [TOTAL BOARD] : Show total number of iDRS-CARDs.

▶ [TOTAL SPEED] : Show maximum recording speed.

2) [Schedule]



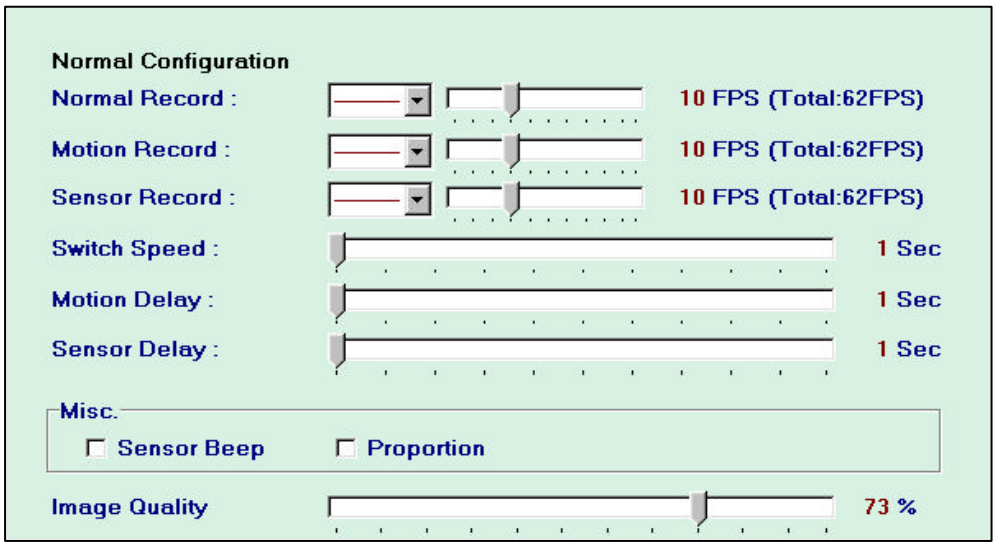
▶ Set up each group. Total 10 groups are available (programmable)
- Select group.
- Set the days of the week.
- Connect cameras, motion detectors(software sensor), (external) sensor and D/O.

▶ If you want to record specific time, please designate [START TIME], [END TIME].
- 00:00 to 00:00 means whole day(24 hours) recording.]

▶ After designation, active corresponding group. ☐

▶ Automatically connect Set up date, Camera, Sensor, D/O by click. It is not saved with disconnected camera, sensor, D/O, and also disconnected date.(click once again to disconnect.)

3) [Recording Speed]



▶Designate normal recording speed (Frame Rate).

(Separate frame rate for each camera is available.)

▶ Designate motion-detected recording Frame Rate.

(Separate frame rate for each camera is available.)

▶When sensor recording designate camera FRAME.
(Separate frame rate for each camera is available.)

▶[Switch Speed] : Adjust interval for rotational display model.

▶[Motion Delay] : Keep on recording after motion detection is finished, during indicated time.

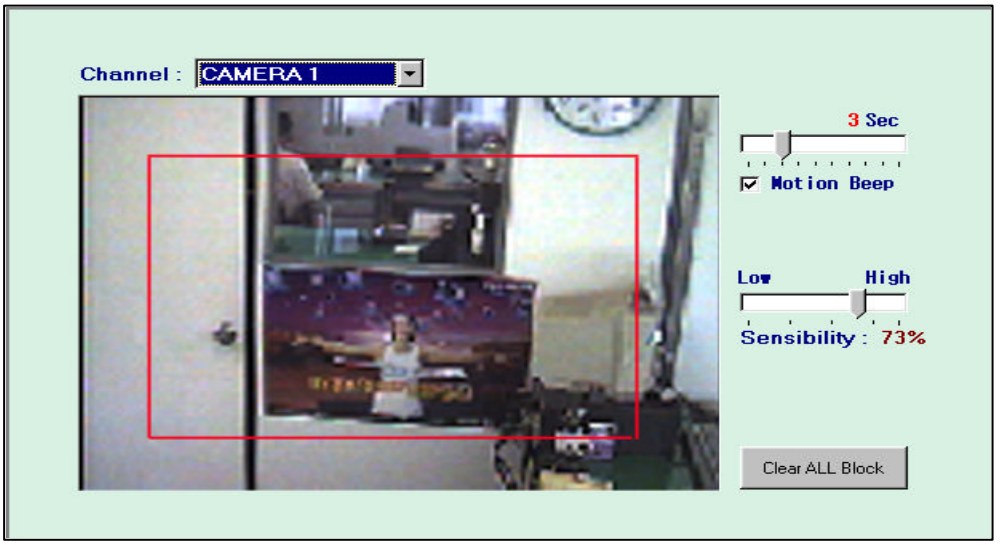
▶[Sensor Delay] : Keep on recording after sensor detection is finished, during indicated time.

▶[Sensor Beep] : Activate BEEP sound on sensor detection.

▶[Proportion] : When activated, only 1, 4, 9, 16 divisions are available, to keep the horizontal and vertical ratio of each screen.

▶[Image Quality] : Adjust compression rate. At 100% quality, recorded image is clear and vivid but the size of a frame is bigger (15-20KB). At lower percentage (higher compression rate) image quality is relatively low but size of a frame is smaller (3-8KB). 34-50% is recommended.

(4) [Motion] Motion Detector configuration



▶ Set up motion detection zone. It would be seen in red square(Maximum 10 areas per camera).

▶ If motion detector is connected in 'Schedule' menu but no detection zone is defined, system will recognize whole screen as a detection zone.

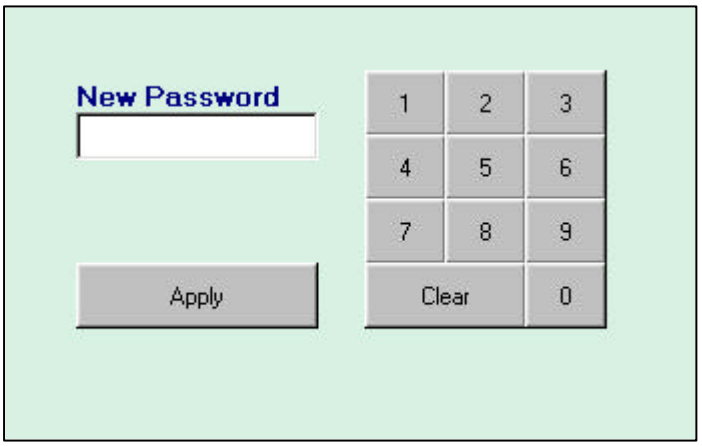
▶ When motion recording mode, detection BEEP sound can be activated/inactivated.

▶ Detected motion is seen in blue unit square, and indicating red 'MOTION DETECTON'.

▶[SENSITIVITY] : Setting sensitivity of software motion detector
At high sensitivity even the very trivial motion will detected.
Adjust it to proper level.(30% - 40% is recommended)

▶ Clear ALL Block Delete all motion detection zone.

5) [Password]



▶ Set up password, to prevent other person than operator from changing setup.

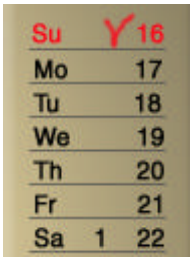
▶ If you set up new password click [APPLY] to use new password.

▶ Please do not forget password. (Set up change is impossible)

6) [Close Set up] : Back to main screen.

4. Image Search( )

1) [Camera(Channel) Number] : Select camera number to playback.

2) 

[Date select] : Recorded date is checked with red mark automatically.
Click date to search.

※ Previous Month - Next month

If there is no recorded data in other month(s) month selection buttons are inactivated.

High speed Playback

To first cut of recorded screen

To last cut of recorded screen

Move back 1minute
Move back 1 cut

Play

Stop

Move forward 1minute
Move forward 1 Cut

3) Playback Screen adjustment

: Contrast of search screen. (Level control)

: Brightness of search screen. (Level control)

4) Other functions

Low level

High level

[Media information] Check available disk capacity and frame size.
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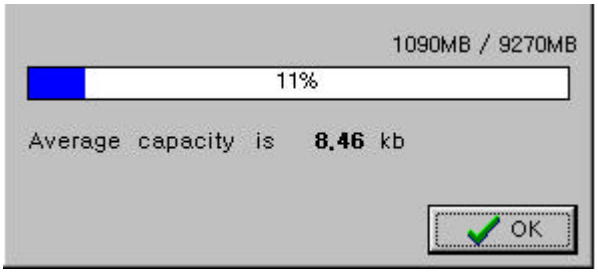

Disk capacity is 9270MB, recorded capacity is 1090MB. 11% is used. Average recording capacity is 8.46KB. So the expected recording period is about 13 days (311 hours 40 minutes).

[FDD backup] Save present screen in image file (JPG or BMP) to the floppy disk.
※In 1 FDD about 100 image cuts can be saved by JPG file or 30 cuts by BMP file

BACK-UP 1 cut, now seen in monitor by JPEG file in Floppy disk.

[Print] Print out present image. Stop the image to print and click.
Selected screen is printed by printer.(Continuous print is available for 30 cuts)
Time stamp (YYYY/MM/DD HH:MM:SS) will automatically be included.
Assigning cut name and printing is available, click [set up] to set up printer driver

PRINT OUT 1 cut from present image without name.

[Time search] Select time(hour, minute) for fast and accurate search/playback

《 S : Start Search》

[Close Play-Back Screen] Back to main screen.