

The DMP-7300 Surveillance Webcam Server for Windows Internet Explorer



**User's Manual
Version: 1.2**

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Table of Contents

Chapter One: Start up	Page
1.1 Packing list	4
1.2 Specifications	5
1.3 Front face plate	5
1.4 Rear face plate	6
1.5 Side face plates	6
 Chapter Two: Installation	
2.0 Installation of program: single server Diagram	7
2.1 Installation of program: multiple server	12
2.2 Connect by modem: diagram	14
2.3 Installation of the modem	15
2.4 Installation the program: via modem	16
2.5 Connecting the sensor	19
2.6 Using webcam server via browser	20
 Chapter Three: System Operation	
3.1 Set configuration via browser	21
3.1.1 Security setup	22
3.1.2 Fine Tuning	24
3.1.3 Recording images to flash memory	25
3.1.4 View record	26
3.1.5 View and printing images	26
3.1.6 Set local time	27
3.2 Add/ Delete user name & password	27
3.3 Accessing the server via browser	27
 Appendix A Circuit diagram of sensors	28
Appendix B Installation via: Intranet	29
Appendix C Connecting to a switch	31
Appendix D Onboard jumper and connectors	32
Q and A	33
Specifications: Addendum	34

Chapter 1

Start up

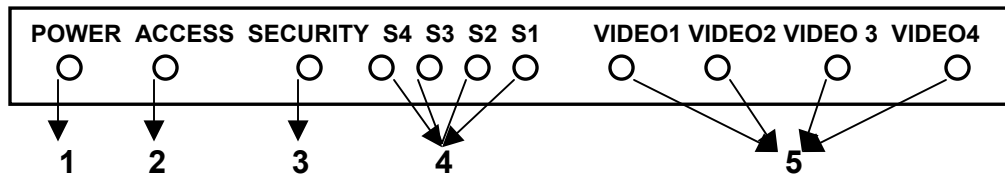
1.1 Packing List

Product Name	Package
DMP-7300	DMP-7300 webcam server x 1 Utility and Drivers Diskette x 1 8W Power Adapter 100V-240V User Manual on Disk
DMP-7300-EU	DMP-7300 The DMP-7300 webcam server x 1 Utility and Drivers Diskette x 1 8W Power Adapter 100V-240V, round pin for Europe. User Manual on Disk

1.2 Specifications

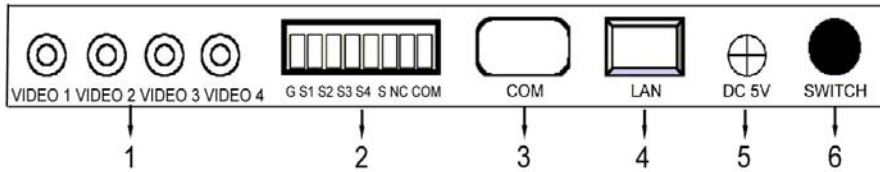
Feature	DMP-7300 WebCam Server
Chipset	DMP(ALi) M6117D
Memory	8MB onboard
Protocol	TCP/IP, FTP,PPP, HTTP, ARP, ICMP IP, UDP,TCP
Network Port	-10 BASE-T, IEEE 802.3 -MODEM (D-TYPE 9pin)
Connector	-RJ45 connector (10Base-T) -D-type 9 pin connector (MODEM) -Video-in BNC connector X 4 -DC5V power connector & switch -Terminal connector for sensor
Application support	NTSC /PAL supported
Compress	JPEG video compression format
Size	235mm x 140mm x 25mm
Weight	3lbs / 1.362 kg
Flash Disk	Use any Compact Flash card
Power consumption	DC+5V @1.6A

1.3 Front Face Plate



ITEM	NAME	FUNCTION
1	Power LED	The LED should be green when the power is on.
2	Access LED	The LED is green after you turn on the power, but when the data is accessing through Ethernet the LED should be blinking (red/green).
3	Security LED	The LED is green after you turn on the power, but when you enable the security system the LED will turn red.
4	Sensor LED	The LED is off when no sensor device is connected. After the sensor device is connected the LED will be green. And when the sensor is triggered the LED will turn green.
5	Video LED	When linking with a CCD camera (s), the LED is green. If not, the LED is off. And when the CCD camera is recording the LED will be blinking.

1.4 Rear Faceplate



ITEM	NAME	FUNCTION
1	BNC connector	Connect to 1 to 4 CCD cameras.
2	Sensor Connector	Each CCD camera has one sensor (VIDEO1—S1, VIDEO4—S4). You can use the micro switch sensor to connect. When the sensor is triggered it will record automatically, also, an alarm can be activated (if connected) (Please see the Appendix A & section 2.5 for details) Symbol: NC and COM: will connect to an external alarm device. Ex speaker or horn
3	Modem connector	Link by using Modem.
4	LAN connector	Link by using Ethernet.
5	Power connector	Connect to DC 5V power.
6	Power switch	Power on/off

1.5 Side Face Plates



ITEM	NAME	FUNCTION
1	Dip Switches	Change when connecting to a switch or multiplexer

Note: When connecting the webcam server to a switch or multiplexer the four (DIP) switches are to be placed in the up position. The switches are located on the outside next to the camera ports near the BNC ports.



Compact Flash Card

ITEM	NAME	FUNCTION
1	Flash	Insert compact flash memory card Note: the system must be turned off or rebooted after adding flash memory card.

Chapter 2

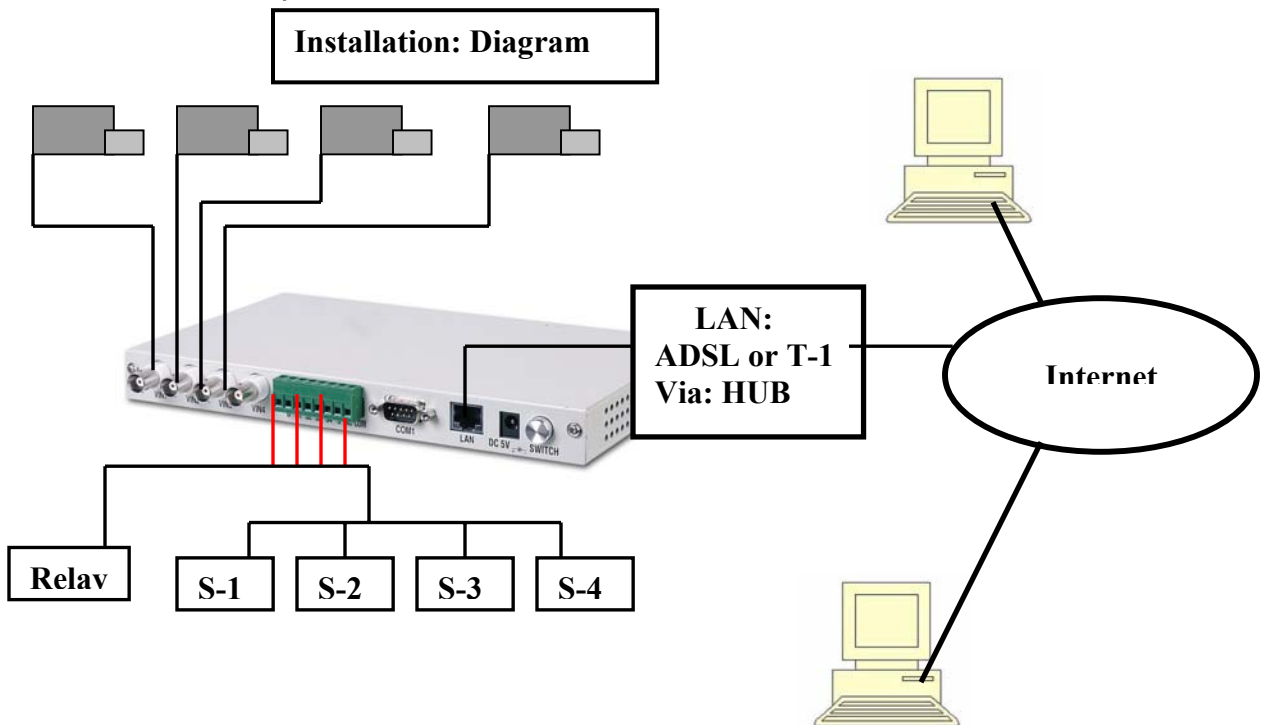
Installation

2.0 Installation of Program: Single Server

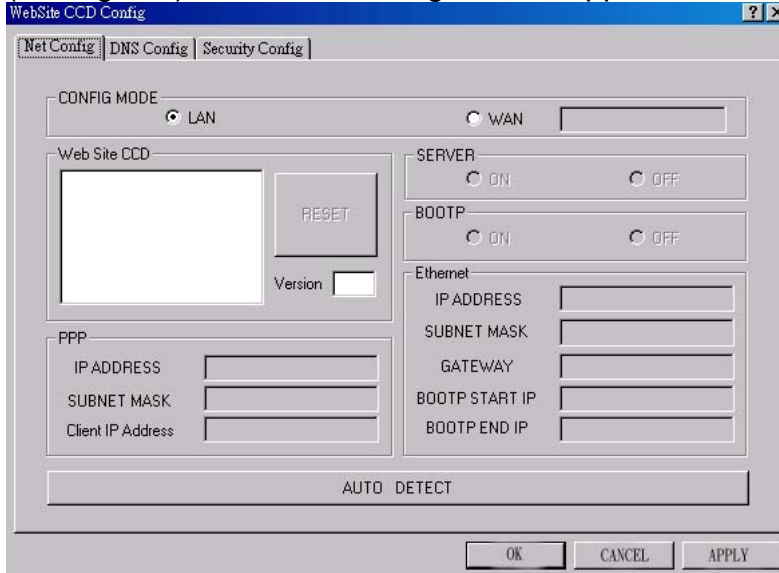
Please run the initial program (wsccfg.exe) to setup the webcam server:
By the following steps

Step 1: Connect all hardware (see diagram)

- Plug in the power cord to the server and plug into a wall socket
- Connect all cameras to the BNC connectors on the webcam server.
Note: If you are connecting to a camera switch make sure the four white (DIP) switches are in the up position. See section 1.5
- Plug in an Ethernet cord, using an RJ-45, to the webcam server and connect to a hub or to the internet via T-1 or DSL.
- Turn the power on.



Step 2: Place the floppy disc in your host computer and run (wsccfg.exe). The below dialog box will appear



Step 3: Click on “*AUTO DETECT*”

Step 4: Select or click on the MAC address in the “*Website Site CCD*” dialog box

Note: Each sever has it’s own unique MAC address.

Step 5: Type in the “*User Name*” box: “**root**”

Type in the “*Password*” box: “**password**”

Click “OK”

Note: these are the default names which can be changed later.



Step 6: In the Ethernet box enter its “IP ADDRESS”, “SUBNET MASK”, and “GATEWAY”

NOTICE:

These numbers / addresses are given to you by your ISP and are static IP addresses.

Note: Disregard the “PPP” box and entering those numbers. This is for installation via modem only

Step 7: On the “SERVER” dialog box click “ON”

Step 8: On the “BOOTP” box click “OFF”

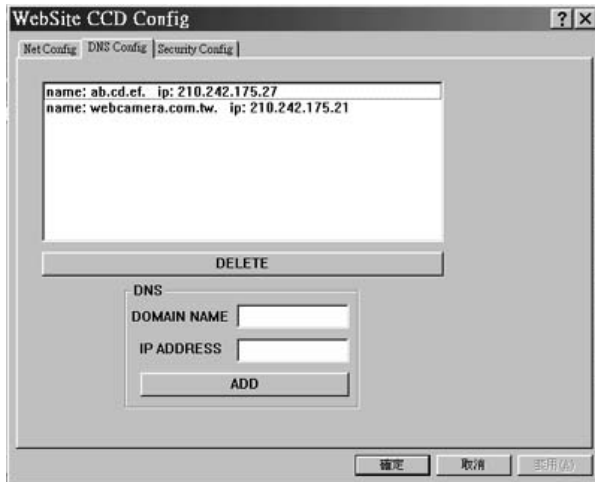
Step 9: Click “SAVE” or “OK”

Step 10: The webcam server which you’ve selected will be reset after receiving a new configuration. Now you can use the browser to link the new IP address and view the images

Note: Windows Internet Explorer is the only browser it uses.

Step 11: Domain Name Setting.

Under the Modem linking mode (PPP protocol), you can browse the WebCam Server by using both DOMAIN NAME and the IP address, after the DOMAIN NAME setting.



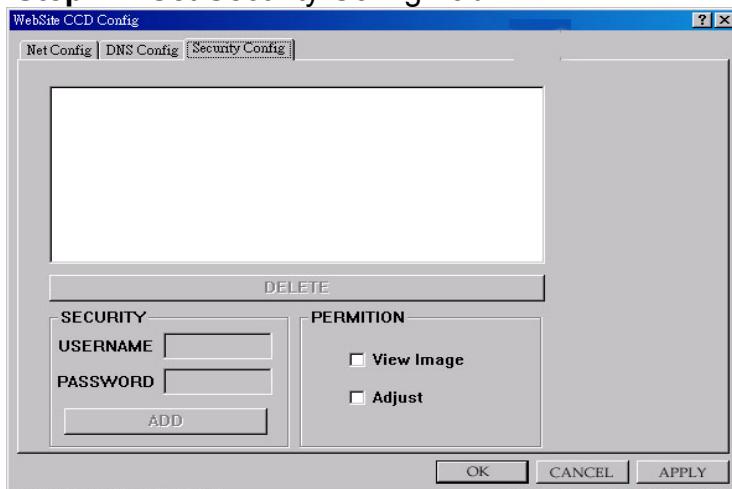
DOMAIN NAME:: Please name your WebCam Server here. (For example: WebCam or MyHome)

IP ADDRESS: Please fill in the IP address which you set in the Modem mode (PPP mode).

DELETE: Delete the DOMAIN NAME and IP Address which you've selected.

ADD: Save new DOMAIN NAME and IP address.

Step 12: Set Security Config Tab



This dialog box is only available from the wscfg.exe that comes with the server. In order to change any settings you must bring wscfg.exe up and make any changes in this box. This allows you, as supervisor/ administrator, to restrict who can log on and what each user will be allowed to do. Each user is to have their own user name, password and viewing restrictions.

SECURITY: adding and deleting users

USER NAME: Fill in your username.

PASSWORD: Fill in your password.

ADD: Save the new USER NAME and PASSWORD.

DELETE: Delete the USER NAME and PASSWORD which you've selected.

PERMISSION: for users

1. "View Image"

a. box checked: a person can view the cameras.

b. box not checked: a person **can not** view cameras.

2. "Adjust"

a. box checked: a person can make security adjustments.

b. box unchecked: a person **can not** make security adjustments.

2.1 Installation of Program: Multiple Servers

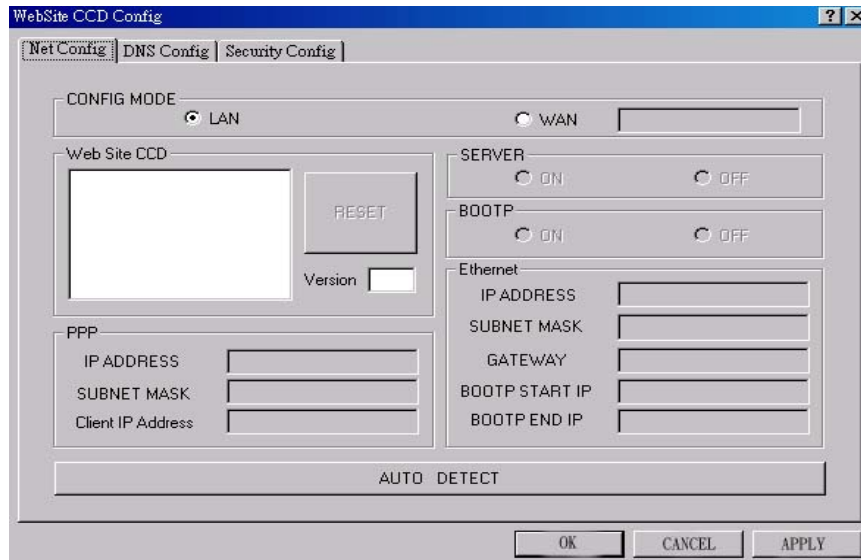
Step 1: Connect all hardware

- a. Plug in the power cord to the server and plug into a wall socket
- b. Connect all cameras to the BNC connectors on the webcam server.

Note: if you are connecting to a camera switch make sure the four white switches, on the outside next to the BNC connectors, are in the up position. See section 1.5

- c. Plug in an Ethernet cord, using an RJ-45, to the webcam server and connect to a hub and or to the internet via T-1 or DSL.
- d. Turn on the webcam server.

Step 2: Place the floppy disc in your host computer and run (wsccfg.exe) the below dialog box will appear



Step 3: Click on “AUTO DETECT”

Step 4: Select or click on the MAC address in the “Website Site CCD” dialog box

Note: Each sever has it's own unique MAC address.

Step 5: Type in the “User Name” box: “**root**”

Type in the “Password” box: “**password**”

Note: these are the default names which can be changed later

A screenshot of a 'User Login' dialog box. The title 'User Login' is at the top in a bold, serif font. Below the title are two input fields. The first field is labeled 'User Name' and contains the text 'root'. The second field is labeled 'Password' and contains a series of asterisks. Below these fields is a single button labeled 'OK'.

Step 6: Enter its “IP ADDRESS”, “SUBNET MASK”, and “GATEWAY”

NOTE: these numbers / address are given to you by your ISP and are static IP addresses. In the Ethernet dialog box the first IP address is entered in “BOOTP START IP” and the last IP address is entered in the “BOOTP END IP”

Note: Each server will need it’s own static IP address.

Note: Disregard the “PPP” box and entering those numbers. This is for installation via modem only

Step 7: On the “SERVER” box click “OFF”

Note: this only applies to the 2nd, 3rd and 4th servers

Step 8: On the “BOOTP” box click “ON”

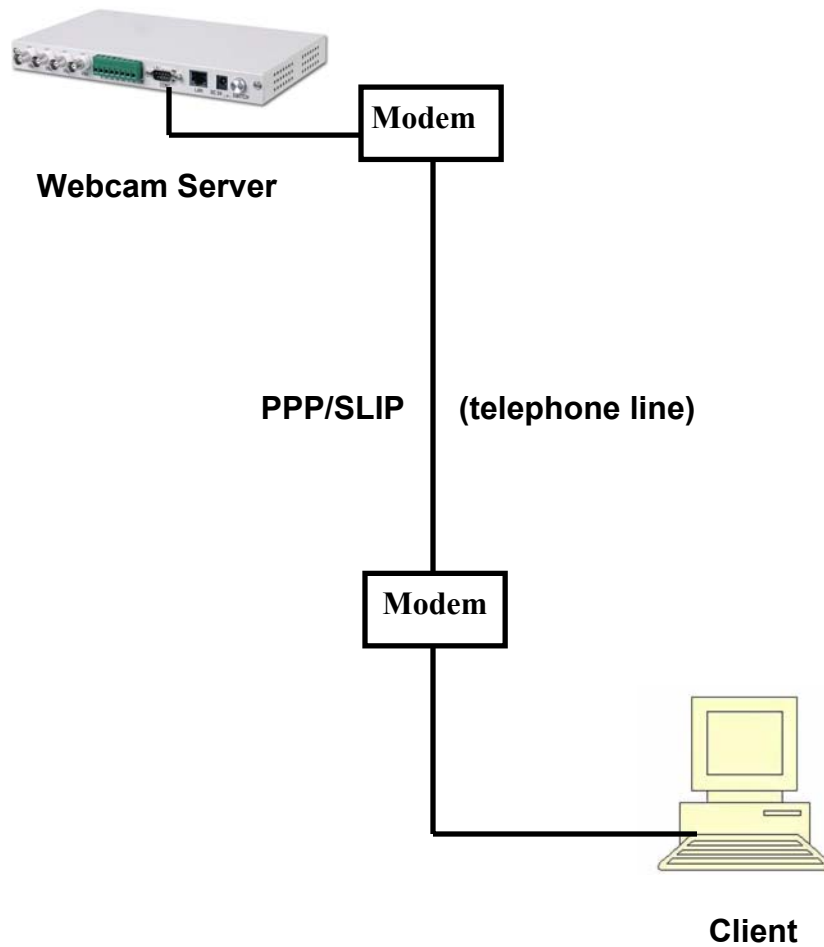
Note: this only applies to the 2nd, 3rd and 4th servers

Step 9: Type user name and password in order to manage your server.

Step 10: Click “SAVE” or “OK”

Step 11: The webcam server which you’ve selected will be reset after receiving a new configuration. Now you can use the browser to link the new IP address and view the images.

2.2 Connect by Modem: Diagram



Note: Please connect the modem to the D-type 9 pin connector.

2.3 Installation of the Modem

The following is for installing the modem using Microsoft's Windows

Step 1: Connect all hardware

- a. Plug in the power cord to the server and a wall socket
- b. Connect all cameras to the BNC connectors into the webcam server.

Note: if you are connecting to a camera switch make sure the four white switches, on the outside next to the BNC connectors, are in the up position.

- c. Plug in a D-type 9 pin connector. to the webcam server and connect to a modem and connect to phone jack (RJ-11)
- d. Turn on the webcam server via power button

Step 2: From the Microsoft window click on "*My computer*"

Step 3: Click on "*Dial-up Networking*"

Step 4: Click on "*Make New Connection*"

Step 5: In the dialog enter any name and enter the device name. This, the device name, is given by the mfg.

Step 6: Click "*Next*"

Step 7: In the dialog box enter the phone number that you want to call (the modem next to the Webcam server)

Step 8: Click "*Next*"

Step 9: Click "*Finish*"

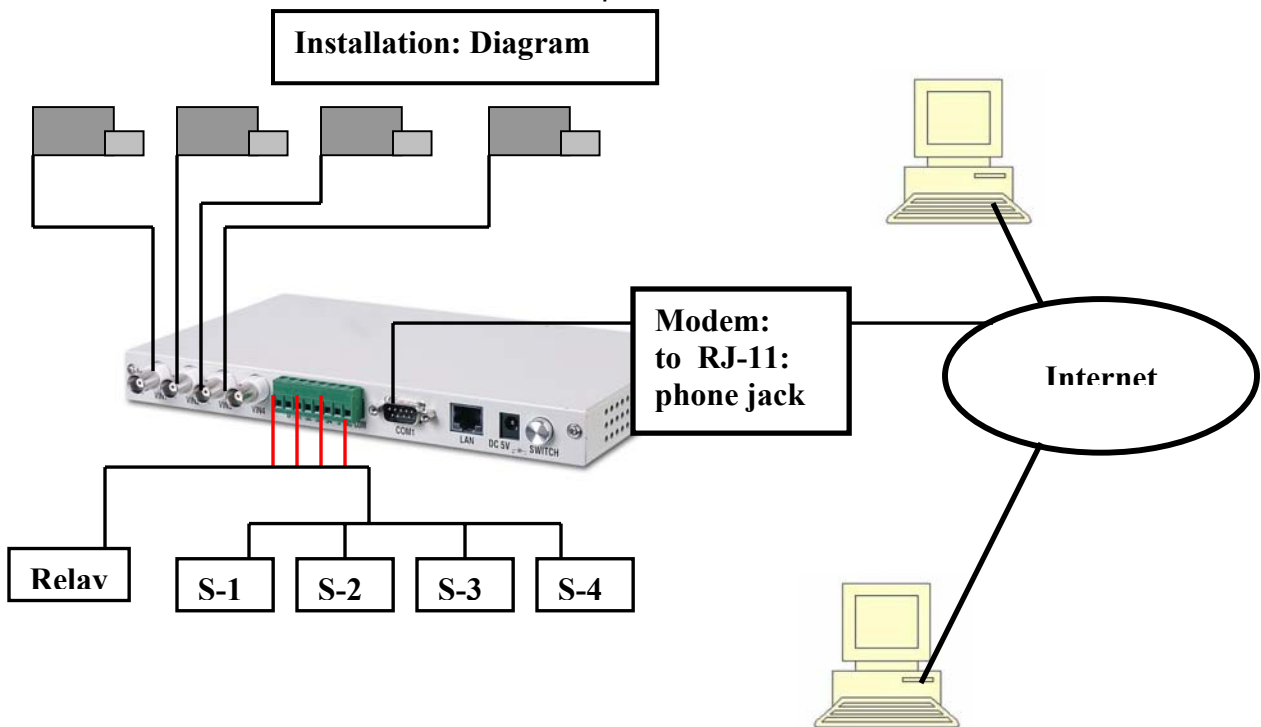
Note: This process must be done on each computer when accessing the webcam server.

2.4 Installation of the Program: Via modem

The following is for installing the program with the modem currently installed: If not see section 2.3

Step 1: Connect all hardware

- a. Plug in the power cord to the server to a wall socket
- b. Connect all cameras to the BNC connectors on the webcam server.
Note: if you are connecting to a camera switch make sure the four white (DIP) switches, on the outside next to the BNC connectors, are in the up position. See section 1.5
- c. Plug in a 9 pin connector to the webcam server and connect to a modem and plug the modem into a phone jack (RJ-11)
- d. Turn on the webcam server via power button.



Step 2: From Microsoft window click on *"My Computer"*

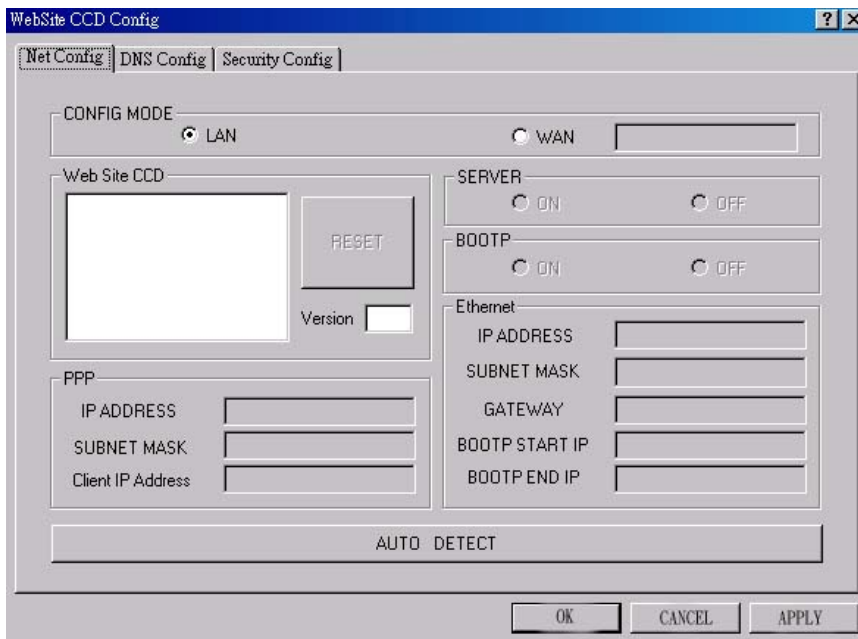
Step 3: click on *"Dial-up Networking"*

Step 4: Click on to the name of the modem that you have previously installed. See section 2.3

Step 5: In the dialog enter a name and enter the phone number that you will be dialing to access the webcam server.

Step 6: Click “Connect”

Step 7: Place the floppy disc in your host computer and run (wsccfg.exe) the below dialog box will appear



Step 8: Click on “AUTO DETECT”

Step 9: Select or click on the MAC address in the “Website Site CCD” dialog box

Note: the webcam sever has it's own unique MAC address.

Step 10: Type in the “User Name” box: “**root**”

Type in the “Password” box: “**password**”

Note: these are the default names which can be changed later

A screenshot of a 'User Login' dialog box. The title 'User Login' is at the top in a large, bold, serif font. Below the title are two input fields. The first field is labeled 'User Name' and contains the text 'root'. The second field is labeled 'Password' and contains a series of asterisks. Below these fields is a single button labeled 'OK'.

Step 11: In the “PPP” dialog box the default: 192.168.1.1 will appear in the “IP ADDRESS”. If it does not appear then enter 192.168. with the next two number sets to be any numbers from 1 to 254

Example: 192.168.**24.67** or 192.168.**185.92**

Step 12: Enter the following in the:

SUBNET MASK: 255.255.255.0

Step 13: For the “Client IP Address” 192.168.**24.2~254**

Note: in the 3rd place it must be the same number as the “IP ADDRESS” with the fourth to be a random one.

Step 14: On the “SERVER” dialog box click “ON”

Step 15: On the “BOOTP” dialog box click “OFF”

Step 16: Click “SAVE” or “OK”

Step 17: Type user name and password in order to manage your server.

Step 18: The webcam server which you’ve selected will be reset after receiving a new configuration. Now, you can use the browser to link the new IP address and view the images.

Note: You can only use one server when connecting to a modem.

2.5 Connecting the Sensors:

Step 1: From each external sensor device connect the ground wire from each of the four sensors and connect the wire to input marked “**G**”. All of the four ground wires are to be connected to the “**G**” or ground input.

Step 2: Then connect the other sensor wires to there
Appropriate numbers: sensor device 1 to “S1” etc.

Step 3: When the sensors have been installed see section 3.1.1 to design the system.

Optional:

Step 4: The two places marked “NC” and “COM” are for an external alarm devices such and alarm sound or for calling the police or the security alarm company.

See Appendix A for the wire diagram.

2.6 Use WebCam via Browser

Please press the "Open" button to start viewing the camera images.



You choose 1, 4, or 16 frame and adjust the Refresh Time (R.T.). The Refresh Time is from 0.1 second to 10 min, which means the browser will send a request command to the webcam server every 0.1 second to 10 min. And after the server receives the request from the browser it will send the image to the browser.

Note: Setting the frame rate or "RT" @ .1 gives me a faster frame or refresh rate, but you will miss some frames. Setting @ 30 seconds gives a slower frame rate but you will see more images. Setting @ one (1) second gives a good combination.

Chapter 3

System Operation

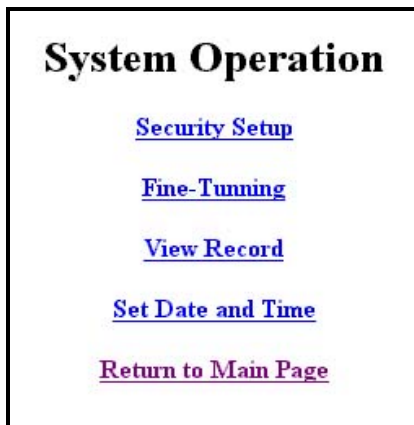
3.1 Set Configuration via Browser:

Press "Setup" icon to enter the system operation:



A screenshot of a web browser window showing a "User Login" form. The form has a title "User Login" at the top. Below the title, there are two input fields: "User Name" with the text "root" entered, and "Password" with masked characters "*****". Below the password field is an "OK" button.

The default user name is "**root**" and default password is "**password**". The DMP-7300 webcam server will ask the user to key-in the password and user name the first time to access setup page. After the login process a "System Operation" page will be seen as below:



A screenshot of a web browser window showing a "System Operation" menu. The menu has a title "System Operation" at the top. Below the title, there are five links: "Security Setup", "Fine-Tuning", "View Record", "Set Date and Time", and "Return to Main Page".

3.1.1 Security Setup:

You can set the security system in the dialog box below: Also see section 2.0 Step 12 for more details.

Security System

Security System ☐ ON ☒ OFF

Browse Limit ☒

Sensor Setup:

	Sensor 1	Sensor 2	Sensor 3	Sensor 4
Channel Enable	☒	☐	☐	☐
Detect Enable	☐	☐	☐	☐
Save Image	☐	☐	☐	☐
Send Mail	☐	☐	☐	☐
Set Alarm Output	☐	☐	☐	☐

Alarm Setup:

Alarm Record Ahead: ms

Alarm Record Time: ms

Alarm Output Period: ms

Mail Server:

Receiver List:

Security System	Turn ON/OFF security system.
Browse Limit	On: person can view cameras Off: person cannot view cameras
Channel Enable	Allows viewing any camera on screen that you select, even if you have connected the CCD camera(s) to the WebCam server, the pictures will not shown on browser if you didn't enable the channel. Disabling the sensors when not using the cameras when give clearer images.
Detect Enable	Enable/disable the detection.
Save Image	Save image or not when alarm is triggered.

Send Mail	Send mail when alarm is triggered.
Set Alarm Output	Server will set alarm output when alarm is triggered.
Record Ahead Ahead	Save images before the alarm is triggered.
Alarm Record Time	Save images after the alarm is triggered.
Alarm Output Period	Set the time that alarm will sound
Mail Server	Server will use this mail server to send mail.
Receiver List	This E-mail address will receive an alarm message when alarm is triggered.

Press "Save Setup" to save new configuration or press "Reset" button to default status.

Note: 1000 MS or millisecond = One (1) second

If you enable send mail an alarm is triggered you will receive a alarm message as below:

```
Received: from [210.242.175.25] by XXX; Wed, 6 Jun 2001
18:19:04 +0800
From: WebCam
To: email address
Subject: Alarm Mail from Web Cam(210.242.175.25)
Date: Wed, 6 Jun 2001 18:19:03 +0800
Message-Id: <10190329500323@www1.dmp.com.tw>
This mail is sent by WebCam to notify the channel0 was triggered
at 2001/06/06 - 18:24:53
Images were recorded as event-id 0005. Link to
http://210.242.175.25/recevent.jgi to view images.
```

Fine-Tuning System

Quality	16	1(Hight)-31(Low)
Luminance	90	0(Dark)-255(Bright)
Contrast	71	1(Min)-127(Max)
Image Size	☐ FULL Full screen ☒ SIF 1/4 ☐ QSIF 1/16	

Quality From: 1 to 31: 1 is the best quality and 31 is the lowest.

Luminance From: 0 to 255, dark to bright.

Contrast: From 1 to 127, min to max.

Image Size: Image size when sending picture from the webcam server to your browser. If you choice SIF or QSIF, the picture will be compressed in the webcam server before sending.

Note:

FULL: gives better image quality but slower frame rate.

QSIF: gives faster frame rate but less image quality

SIF: a good middle setting

For example:

<u>Quality:High:</u>	<u>Q=1</u>	<u>MediumQ=16</u>
Full	150K	30K
SIF(1/4)	40K	12K
SQIF(1/16)	15K	4K

3.1.3 Recording Images to the Flash Memory

Step1: Connect all cameras and sensors see sections: 2. 0 , 2.5 and appendix A.

Step 2: See section 3.1.1 in the “*Security System*” dialog box and configure the system to fit your requirements.

Step 3: In the “*Sensor Setup*” section select the functions that you want the sensors to perform.

Step 4: In the “*Recording Setup*” section there are 2 boxes

A. “*Record ahead*” the DMP-7300 webcam server has RAM, which is recording and recycling the 4 camera images. By selecting this time function when a sensor is triggered it will record ahead, from RAM, of the time prior to the sensor being triggered. Example: by setting the “*Record Ahead*” for 10 seconds it will record the intrusion of what you set (10 seconds) plus the time you select in the “*Record Time*” section

B. “*Record Time*” when a sensor is triggered this will record the length in which you programmed the time to record into the internal flash memory. Note: This is set by milliseconds 1000 ms = 1 second

Step 5: Three settings will affect the flash memory space: A. “Fine Tuning System”: “Quality” section 3.1.2 The lower the number (1,2,3...) the more memory is consumed and the higher the number (12,13,14...) the less memory is consumed.

B. “*Record Time*” section 3.1.1. The more time you want the system to record the more memory is consumed

C. “*RT*” Refresh Time section 2.6. In “*The return to main page*” there are two buttons a plus (+) and a minus (-). The lower the number the more frames will be recorded into memory and the higher the number the less frames will be recorded, therefore affecting flash memory capacity.

Note: Reboot after installing additional compact disk.

3.1.4 View Record

All the images that had been saved will be listed in the dialog box below. You can press "Event ID" to view images or "Erase" to delete them.

WebCamera Events List

Event ID	Time	From	To	Erase
0001	2001/06/06 - 09:22:37	2001/06/06 - 09:22:28	2001/06/06 - 09:22:34	Erase
0003	2001/06/06 - 09:51:25	2001/06/06 - 09:51:24	2001/06/06 - 09:51:32	Erase

6452KBytes free

[Back to system operation](#)

2001/06/06 09:51:28



3/11

[Prev Next](#)

[Back to Events List](#)

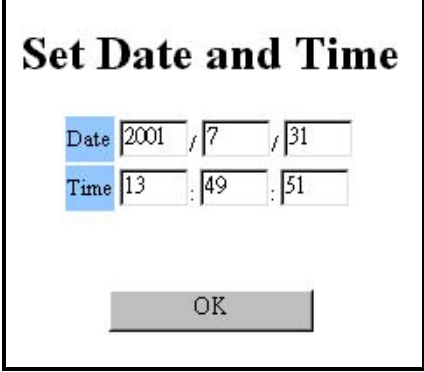
When the sensor is triggered photos and the time will be saved automatically. You can view the pictures and time in “*WebCamera Event List*”

3.1.5 Viewing & Printing Images:

To print the event to your printer click onto the event that you want to view and those series of pictures will appear. As you flip thru select the frame you want to print and from the tool bar select print.

Note: These images are saved to the internal flash disc and to the additional flash memory card See section 1.5 . Once the memory is full it **will not** continue to save the images. You must erase the flash card. See “*WebCamrea Event List*” dialog box.

3.1.6 Set Local Time



A dialog box titled "Set Date and Time" with a black border. Inside, there are two rows of input fields. The first row is labeled "Date" and contains three boxes with the values "2001", "7", and "31" separated by slashes. The second row is labeled "Time" and contains three boxes with the values "13", "49", and "51" separated by dots. Below these fields is a single "OK" button.

Set your local date and time in the Webcam server

3.2 Add/Delete User and Password

Select "*Security Config*" tab to add/remove/change the user name and password.

We recommend users to change default user name and password when you install the Webcam server

3.3 Accessing the Server via Browser

In order to access the webcam server via internet or via modem enter its IP address or its PPP IP address.

Note: The webcam server only works with Microsoft's Internet Explorer.

Appendix A

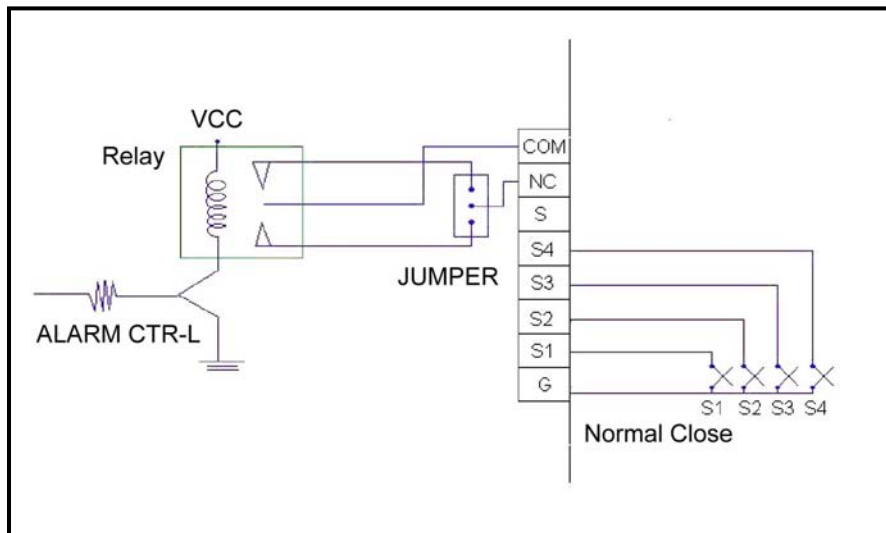
Circuit Diagram of the Sensors

SENSOR:

The build-in switch sensors in the WebCam Server are NC (Normal Close) sensor. It's just like the sensors which are used on doors or windows. Usually the doors and windows are closed, but when the doors or windows are opened the circuit becomes "open", then the security system in the WebCam Server will be active by the way you set it in the "SECURITY SETUP".

ALARM:

The alarm output sensor in the WebCam Server is a NO (Normal Open) sensor. Which means when the alarm is triggered the circuit will be "short", then the alarm will be active.



Appendix B

Installation via: Intranet

Step 1: Go to the DOS prompt

Step 2: Type in “*ipconfig*” press enter

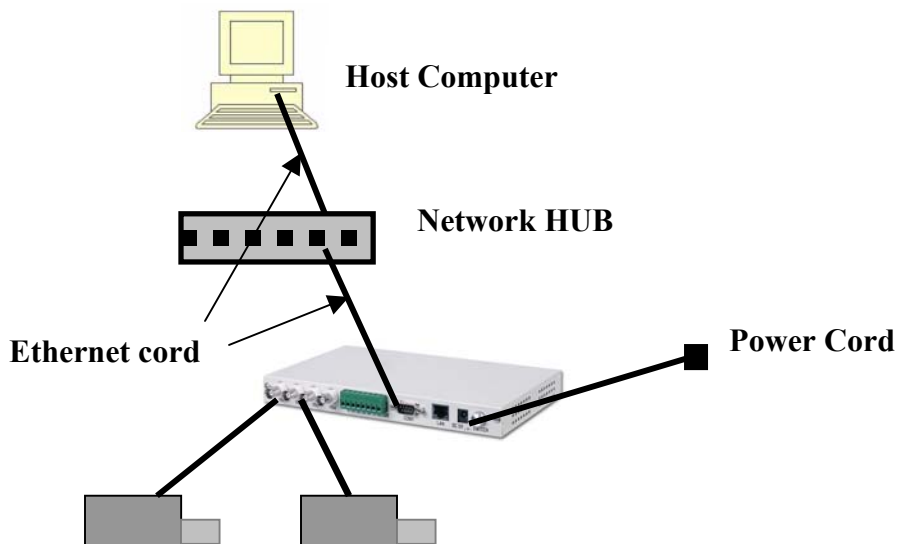
Step 3: Three series of IP address numbers will appear
In this form on your computer.

IP Address	192.168.2.24
Subnet Mask	255.255.255.0
Gateway	192.168.2.32

Copy those numbers down

Step 4: Type in “*exit*”

Step 5: Connect all Hardware as shown below



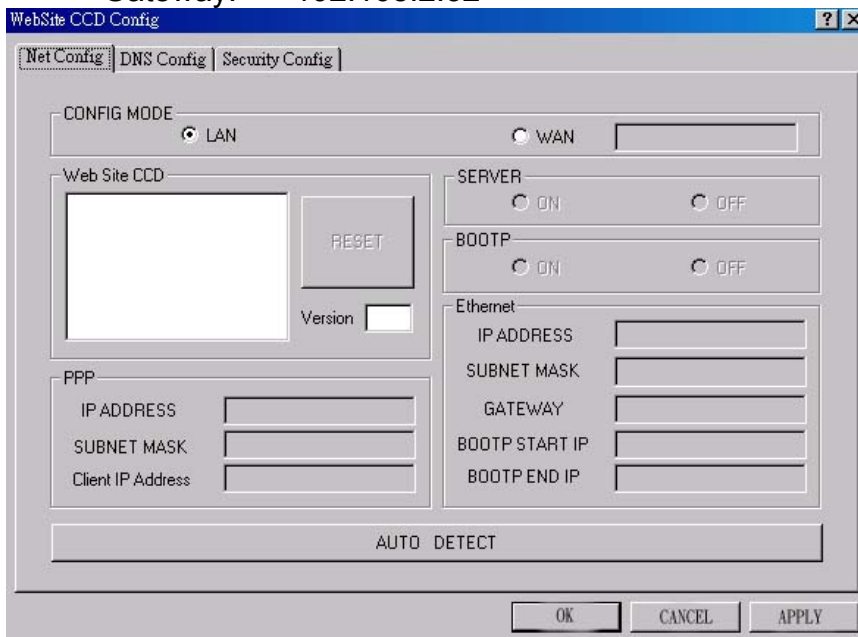
Step 6: Place the floppy disc and run the Wscfsg.exe

Step 7: Click on “AUTO DETECT”

Step 8: Type in your user and password

Step 9: Type the in the IP numbers that you copied in step 3
However in the 4th place, in the “IP Address” box, replace that number with any number from 1-255 (**except 24 or 32**) these numbers, 24 and 32, are used as an example when connecting to your system. Those numbers will reflect the numbers that appear on your computer.

IP Address 192.168.2. **1-255 (except 24 or 32)**
Subnet Mask : 255.255.255.0
Gateway: 192.168.2.**32**



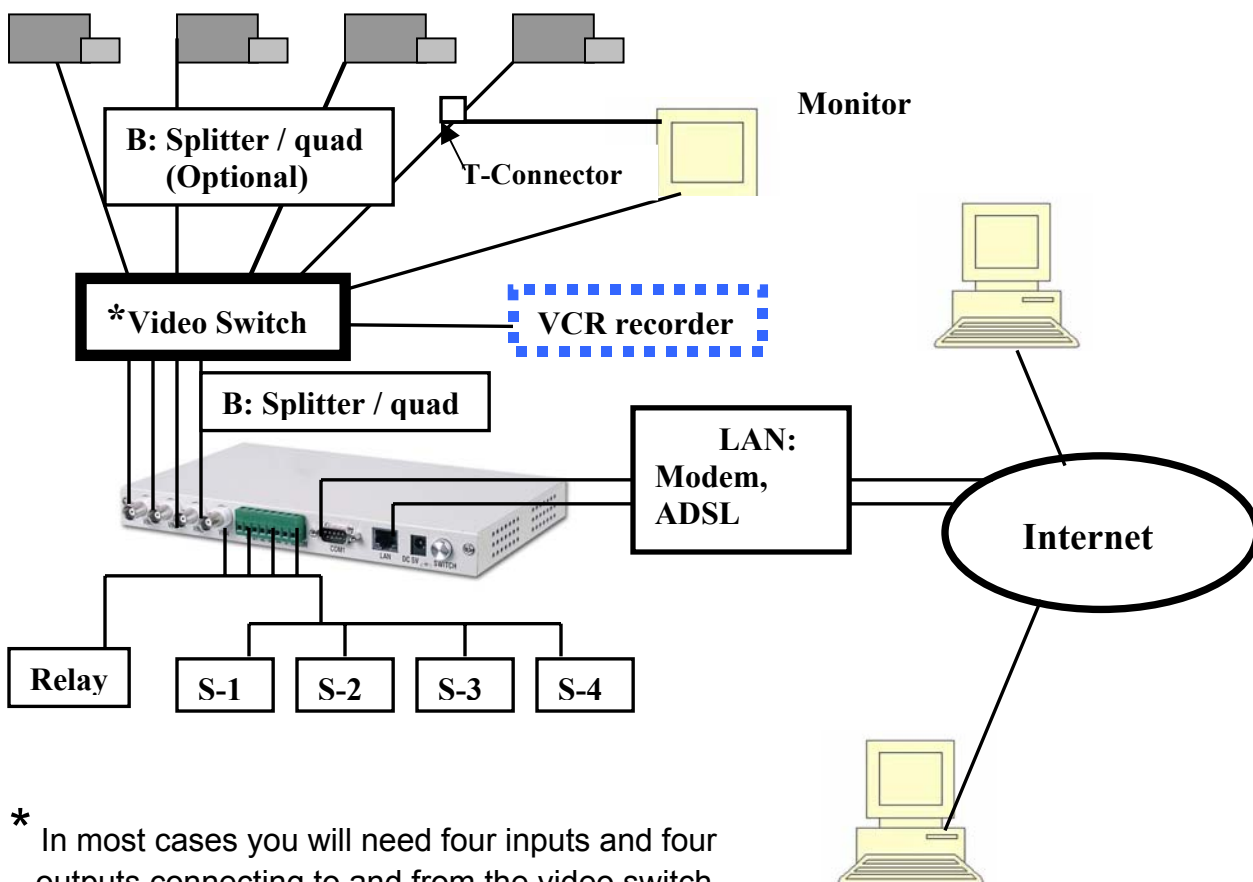
Step10: click “OK”

Step 11: Open your computers Window’s Explorers browser and enter the IP address: 192.168.2. **1-255 (except 24 or 32)**
Note: In the example the only variable is 24 which must be replaced with any number (**except 24 or 32**)

Step 12: Installed

Appendix C

Diagram of installation connecting to a video switch

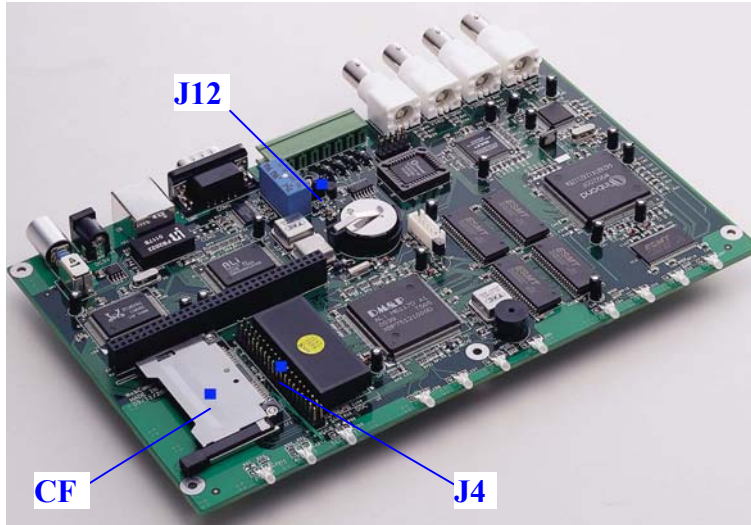


* In most cases you will need four inputs and four outputs connecting to and from the video switch. A splitter or quad, as see in box B, can be used if the video switch does not have four input or output jacks.

T-Connector: when connecting any of the cameras to a T-connector one dip switch per camera must moved into the UP position.

Appendix D

Onboard jumper and connectors.



Jumper:

J12: Alarm NC/NO jumper
1- 2: NC
2- 3: NO

Connector:

J4: IDE 40 pin connector for MicroDisk Module or HDD.
CF1: Compact Flash Card socket

Questions and Answers

1. When connecting the internet can I use a "T" connector along with the computer in connecting to the LAN?

Answer: No, when connecting to the Webcam server to the internet if you have more than two nodes you must use a hub.

2. What browser interfaces can I use?

Answer: Windows Internet Explorer only. It will not work with any other browser.

3. Where and how can I view my cameras over the internet?

Answer: From any Windows Internet Explorer browser site. type in the IP address, user name and password. No additional software is needed on the computer from where you are viewing.

4. What kind of cameras can I use?

Answer: You can use a B/W or color CCD cameras. The better cameras and lens that you use the better clarity you will have.

5. I connected the webcam server my pictures are fuzzy what's wrong?

Answer: When connecting the webcam server to a switch or multiplexer the four (DIP) switches are to be placed in the up position if not the switches are to be placed in the down position. The switches are located on the outside next to the BNC ports. See section 1.5

Specifications: Addendum

Controller:

CPU: DMP M6117D (386SX-40MHz)
8 MB Memory
Ethernet: 10Base-T RJ-45 connector
RS-232 D-type 9-pin connector
Video-in by 4 BNC connector

Video:

NTSC / PAL support
Video input for 4 independent channels
Separated view windows support from full screen / 4 windows 16 windows
Indicators for 4 channels activity

Recorder (trigger by sensor):

Sensor/Alarm: 4 set NC/NO connector map to 4 channels video-in
Capacity of storage: 1 internal Compact Flash slot can install up 256MB CF card
User's option to record time range before/after trigger enabled
Record frame can be view by any windows internet explorer

Compression:

JPEG Video compression format

Resolution:

Full screen: 704 x 480
CIF: 352 x 240
QCIF: 176 x 112

Communication interface:

RJ-45
10Base-T Ethernet

Configuration:

HTTP web-page- Internet Explorer
Setup program:

Performance:

Ethernet: frame updated from 0.1 sec to 10 min. (static) Modem: frame
updated from 1 sec to 10 min. (static)

Protocol

IP ,ICMP ,ARP, PPP, HTTP ,FTP

Power supply request

Input: +5V DC
8 Watt

Size

Metric: 235(L)*140(W)*25(H) mm
American: 9" x 5 ½ " x1"



NUCLEUS Electronics Corporation
1016 A Lawson St. City of Industry, Ca. 91748
Ph: (626) 581-4560 FAX: (626) 581-4169
Website: www.nucleus1.com