VisionNet Technology

VisionNet Network DVR - SW-80 User Manual



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Introduction Overview	The SW-80 Series of Network Digital Surveillance Recorder has inherently been designed with flexibility of different video camera inputs and display different camera images in real time. Notwithstanding the different inputs and display, all models will have the same features which are kept as uniform throughout the series.
Standard Features	 Digital multi-channel video recorder and multiplexer Support up to 16 camera inputs with multi display modes Supports both PAL and NTSC standards Easy to use graphic user interface State of the art real-time display and recording under optimum condition of up to 4 channels Support full resolution video (640x480 PAL, 640x480 NTSC) Real-time digital video compression Simultaneous playback and recording Playback with sophisticated search functions Alarm triggered recording Alarm I/O interface Pre-alarm recording Programmable timer for recording Motion detection recording Easy to expand by software upgrade and system integration Multilingual Capability Intelligent remote player with telephone dial up and LAN connectivity to access on-line and recorder videos
Optional Features	 Video displays on SVGA monitor and support a secondary display unit Audio Recording attachable to selected video input Pan/Tilt/Zoom Control (optionally selected Codec) Fast Video Compression/decompression (optionally selected Codec) Tamper protection for video recording

SW-80

Digital Surveillance Recorder



* High Speed Recording

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- * Simultaneous Recording up to 16 cameras
- * Multi-mode Display Screen
- * High Speed Playback Search
- * Automatic Motion Detection Recording
- * Remote On-line Viewing and Playback via LAN, WAN, PSTN, ISDN, Internet with web browser
- * Emergency Automatic Display
- * Alarm I/O Interface
- * Dual Display for Live and Playback (optional)
- * One-channel Audio Input/Recording (optional)
- * RAID Backup Storage (optional)
- * Pan/Tilt/Zoom Control (optional)



An Innovative Product for Digital Video Recording and Surveillance

Main Screen



- * From 1 up to 16 camera inputs
- Multiple Display Mode of 1,4,7,10,13,16 video windows
- * Real-time image surveillance
- System settings and configuration
 Auto-recording upon arrival of alarm signal
- * Simple operation system for easy recording
- Video Motion Detection Pre-, Post-Alarm and Schedule Recording
- * Programmable video sequencing

Full Screen with P/T/Z Control Panel



- * Pan/Tilt and Lens Control
- Accommodate up to 16 cameras
- Pre-position and Auxiliary Functions available



SW-80 is a high performance digital video recorder and multiplexer. By integrating the most advanced digital video technology and software engineering, the unit provides high quality real-time digital video recording and monitoring functions.

SW-80 has built-in multiplexer functions, which allows direct monitoring up to 16 cameras on a high quality SVGA monitor without use of external multiplexer or switcher. It is capable to display and record high quality real-time video with sophisticated playback search functions. The recording and the playback functions of the unit can be operated simultaneously. It provides 24 hours non-stop surveillance for the ultimate security protection.

With the remote playback software installed, any PC with appropriate set up, could remotely playback video recorded by SW-80 Online viewing of the SW-80 camera input is made possible with this software. All the video images can be transmitted through LAN, WAN, Internet, PSTN or ISDN.

Playback Screen



Image search from 1 to 16 cameras Snapshot of video can be captured showing exact time and date of recording Electronic zoom-in of chosen video images

Image Direct Printout/ Save onto Floppy disk

Simple searching function by list of camera number, date and time or colour indication bar

Approximate Recording Capacity

Model	Frame Rate(F/S)	Video Channel Display	Video Channel Recording	Total Storage per Hour(MB)	Total Storage per 24 Hours(GB)
SW-80 Series	25 12.5 8 4 1	1 1 1 1	1 1 1 1 1	275 157.2 109.8 58.2 16.62	6.6 3.8 2.64 1.4 0.39

* 1024MB=1GB

Archive Backup System Mode	Considering the total process (record-optional playback-backup-optional restore- erase obsolete video-recycle storage media for record) of recording of the videos for Surveillance purpose, we can come up with two different backup system modes: Normal Mode – The SW-80 Digital Surveillance Recorder will record all new video into the Fixed Hard Drive (s). As required, the operator of the SW-80 can backup the recorded video to an Removable IDE drive via the Housekeeping function from the Utility Menu The raw copy of video can optionally be deleted during the backup process
	Archive Mode- The SW-80 Network Digital Surveillance Recorder will record all new video into one of the assigned Removable IDE drive. When it is about full, it can be removed from the recorder (system control or physically) for additional archiving to DAT or other backup media. The SW-80 Digital Surveillance Recorder will maintain continuous recording to an alternate removable drive during the archiving operation. When the videos inside a Removable drive is obsolete, they can be erased immediately before video recording is resumed on this drive.
	The backup system mode of SW-80 Network Digital Surveillance Recorder should be selected at the very beginning of overall system operation. The normal backup mode is set by default. To switched to the Archive mode, please refer to the Backup Function of the Options Setting Menu. You will need to have two removable IDE drives configured in the SW-80 Digital Surveillance Recorder to support this mode of system operation. The SW-80 application needs to be closed and restart to apply the mode switching from each other.
Audio Recording Option	 Audio recording function can be enabled and have the recording attached to one of the active camera. To setup audio recording, please refer to the Attaching audio to camera of the Option Setting Menu. Before you can activate this function, you will need to have a Sound (Capture) board installed and properly configured to the SW-80 Network Digital Surveillance Recorder, as follows: Click Start-> Programs-> Accessory -> Entertainment -> Volume Control Click Properties from the Options Menu. Select the Playback check: Make sure the Microphone option is selected from the "Show all volume control" list box. Click apply and OK, then make sure the Microphone is Muted at Playback. Repeat the same steps for Recording, only for this time, the Microphone (or any other input port you may choose as an input feed to the sound board as the recording source) is selected in this case. You will need to adjust the volume of input and output by using the sound recorder which is built in with the Operating System.

TYPICAL SYSTEM



REAR PANEL



*The number of Camera Inputs differ from different models.

*Note:

Camera
ConfigurationCamera configuration includes camera connection and the camera title
assignment.
The camera should be connected to the "Camera inputs" properly prior to do the
camera configuration.
Assign camera title inside the "Camera Title" message box within the "Utility"
menu. Go to "Utility Function" chapter for detail of camera title assignment.Tip:
Make sure that the "Active" box is unchecked for the non-
connected camera(s), in order to perform the optimum video
quality.

STARTING SW-80 SYSTEM

Turn on the power	Make sure that the line voltage selector in the rear panel is selected correctly. Press the "POWER" switch in the front panel of the SW-80 to power up the unit.
Logon	After the system start-up process, the Program logo and the main screen appear as shown in Figure 1.
	Click the "Too Many Files Warning" message box "X" icon to close the message
	box.
	Click the Log ON/OFF button. A Logon Screen dialog box will pop up for input.
	Two default usernames are available: "SUPER" and "OPERATOR".
	The factory default password is <i>NULL</i>
	When you logon as "SUPER", you can click on the Utility button to change the
	logon password (to be discussed in more detail later on page 37).
	However, if you logon as " OPERATOR ", the Utility button will be disabled to
	prevent the password and some other system and recording settings from being
	modified by the operator.



Figure 1

The main screen

creen Two control panels and various common control buttons are displayed on the right hand side of the main screen.

The username is shown on the lower left-hand corner. A progress bar located at the bottom of the screen shows the amount of storage occupied and available for video recording. The color of the status bar will gradually change from BLUE – when it is empty to RED – when it is full. The current time/date is shown on the lower right hand corner.

DISPLAY (THE MULTIPLEXER FUNCTION)

Display control panel SW-80 uses a unique Graphical User Interface (GUI) design for display control. A "DISPLAY" panel is implemented on the upper right hand corner of the main screen so that the user can interact with the unit more easily. The "DISPLAY" panel consists of "display mode" buttons, "camera" buttons and a "sequence" button respectively

All of the push buttons have their individual built-in indicator lights. Once the button is pressed, it toggles on and off with the indicator light on and off to indicate its status correspondingly.

Tip:

You are able to know which camera(s) is/are being displayed by the "DISPLAY" panel indicator lights, and you can press the buttons on the "DISPLAY" panel to enter your display input right away.

Display Panel



Figure 2-1

Tip:

No camera button can be selected prior to the mode selection. User should click on one of the display mode button first.

4



Figure 2-2

Tip: No camera button can be selected prior to the mode selection. User should click on one of the display mode button first.

l-Screen mode	Click the 1-Screen mode button to select this mode. Only one camera can be selected for display. Click the camera button to select camera to display in this mode. The down button will light up in yellow.
4-Screen mode	Click the 4-Screen mode button to select this mode. Four cameras can be selected for display simultaneously. Click the camera buttons to select camera(s) to display in this mode. The down buttons will light up in yellow to indicate the display status.

The camera display in 4-Screen mode is assigned as the following figure for easy operation.



Figure 3-1

Hints:



Figure 3-2

Tip:

To make the most use of the 4-Screen real time display of the unit, consider the arrangement of your camera connections to the unit. You can think of the cameras that you want to display simultaneously in a 4-Screen mode as a group. Connect the grouped cameras to the inputs of the unit in a <u>horizontal arrangement</u> instead of in a <u>vertical arrangement</u>.

Example: Two possible horizontal arrangements of the grouped cameras are shown in Figure 4.



Camera Inputs in Rear Panel

Figure 4

(Shown as the standard version of SW-80 system product, for packaged products, the actual location of camera assigned will vary with different system)

Multi-Screen mode

8-Screen mode

A group of four multi-screen buttons is implemented for multi-screen display control.

The multi-screen buttons are enabled only under the 4-screen mode. You can click on any of these mode buttons to further split any quadrant of the original 4-Screen display into a smaller quad display (quad within a quad). All multiscreen mode buttons can be selected simultaneously.

Example:

Using the following multi-screen buttons configuration (as that shown in Figure 5-1) as an example, the camera display will be assigned as Figure 5-2.

Select 4-screen mode to enable multi-screen selection



			Can	neras 5,6,7,8
1	2			
3	4			
9	10	13	14	
11	12	15	16	

The multi-screen buttons can be pressed simultaneously to superimpose the quad-quad selections.

Figure 5-1



Click on the 8-Screen mode button to select this mode. All cameras will be displayed simultaneously at first time entry to this mode. Click the camera buttons to select or de-select camera(s) to display in this mode . The down buttons will light up in yellow to indicate the display status Click on the surrounding (small) screen will cause the camera on display to be swapped with the one at the center(Large) screen. Keep doing the swapping until the designed cameras is assigned to the respective screen. The assignment will be maintained even if there is a momentary change to other multi-screen modes, but it will return to its default by logging out and on again.

The camera display in 8-Screen mode is assigned as in Figure 6-1 by default.

			2
	1		3
			4
8	7	6	5

Figure 6-1

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

Figure 6-2

16-Screen mode	Click on the 16-Screen mode button to select this mode. All cameras will be displayed simultaneously. The camera buttons will then all light up in yellow to indicate the selection of all the cameras.
	The camera display in 16-Screen mode is assigned as in Figure 6-2
Rapid Zoom	You can switch any camera display to one-screen display mode rapidly. Simply double-click on the desired image on screen, and the image of that screen will be switched to "one screen" mode immediately. For an example, you can change the camera 3 display from 4-Screen display mode to 1-Screen display mode by double click the camera 3 image on screen. You can return to the original display mode by a click on the previous display mode button.
Full screen display	Click on the "Full Scrn" button to display the video(s) in full screen. All the control panels and buttons will be hidden and only videos will be displayed on the screen in order to fully utilize the display area of the monitor. Right-mouse click on any part of the full screen to restore the normal control panel display.
Sequence	Click the "SEQ" button in the "DISPLAY" panel to toggle the sequence function on or off. The indicator of the button lights up in yellow to indicate the sequence function. The function of sequencing is effective for all display modes, except for the 16- Screen mode. The user can select individual camera(s) for sequencing display. For the sequence parameter setup and the implementation example, please see the "Display Sequencing" under "Option Setting" section of this manual.
	When the unit is in sequence mode, all the camera selection buttons inside display panel will be inhibited. You should click the "SEQ" button to off position to re-gain manual access of the camera selection.

REMOTE ONLINE VIEWING AND PLAYBACK RECORDED VIDEO

The Intelligent Remote Player	An intelligent remote player is designed to provide online viewing and playback recorded video functions in the remote client station. While the remote client is doing online viewing, the SW-80 screen automatically switch to 16-screen display mode. Please refer to the Intelligent remote player manual for detailed operation procedure of the intelligent remote player.
SW-80 Server Button	The apperance of the icon of the SW-80 button on the screen indicates the server is on for Online Viewing & Dialing in. The user can turn off this service by clicking the button and click the "close" icon on the menu bar of the control window. To re-open this service, click the "Utility" button and select the "DSR SERVER" function. The icon will re-appear in the Main Screen.

RECORDING

Storage drive	 SW-80 will automatically detect available fixed hard disk(s) in the unit for recording for "Normal" backup mode of operation. SW-80 will directly record into the active removable hard disk in the unit for "Archive" backup mode of operation. Notes: The active (selected) drive should be assigned properly before the overall backup and restore operation is executed. Assign the target drive inside the "Insert drive" message box by clicking the "Swap Drive" button while the system is operated in "Archive" backup mode. Go to the "Option Setting" chapter for further detail.
Recording modes	According to the recording initiation method, four different modes are available for selection in SW-80 Instant recording Scheduled recording Pre-alarm recording Alarm recording
Multiple camera recording	All cameras can be recorded independently. Each camera will be recorded into individual video file(s). The camera ID, start date/time, and the recording mode of the individual camera will be logged with database management.
The recorder control panel	 SW-80 has a "RECORDER" panel (see Figure 7) to let the user interact with the unit for recording control with enough indication. There are sixteen camera buttons in the "RECORDER" panel, all of which can be toggled on or off. Each button has four built-in indicators with different colors to indicate different recording modes and statuses. The available indicator colors are yellow, red, light blue and green, respectively. Yellow the corresponding camera is performing instant recording, which is initiated by the pressing down of the button manually. Red the corresponding camera is under alarm recording, which is initiated by the alarm input or by motion detection. Light blue that the pre-alarm function of that camera is activated. Green the corresponding camera is under scheduled recording, which is controlled by the programmable timer.



Figure 7

Instant recordingInstant recording is the most interactive way and easy to use recording method.
It is designed to start instantly to capture some unexpected special events.
It works as a complement of the scheduled background recording.
You can simply toggle on or off the video recording by clicking the camera
button in the "RECORDING" panel.
The down button with a yellow light indicator indicates that the camera is
under instant recording.
Instant recording parameters of each camera can be programmed.
Please see the section of "Recorder Setting" for parameter setup.

Tip:

Instant recording is expected to work in a real frame rate for short time recording while scheduled recording is expected to work in a lower frame rate for longer time recording.

For quick, instant recording of all installed cameras, the user can click on the "REC" button in the "RECORDER" panel (as shown in Figure 8 on the lower right hand corner) to activate/deactivate this function.



Figure 8

Alarm recording	The alarm recording will be triggered by the alarm inputs or the motion detection. Sixteen alarm inputs are assigned one to one corresponding to the 16 cameras. Once the alarm is triggered either by the alarm input or the motion detection, the corresponding camera will start recording automatically. A red indicator indicates that the camera is now under alarm recording. The alarm recording function of an individual camera can be disabled, also the alarm recording duration and the frame rate of each camera can be programmed individually. Please see the section of "Recorder Setting" for the setup details.				
	Note: Only the logon username of "SUPER" can access the utility for alarm enable and alarm recording parameter settings.				
	Tip: In order to verify that alarm recording of particular camera(s) is actually taking place, the user can try and see if the red indicator light(s) in the RECORDER PANEL is/are being displayed.				
Pre-alarm recording	Pre-alarm recording works together with the alarm recording. Pre-alarm function enables you to capture images before the alarm event is happened. Pre-alarm allows images to be temporarily recorded for a short period of time (1 to 60 second) at normal situation. Once an alarm is actually being triggered, the pre-alarm images become permanent files, which can be retrieved and played back. Using "Play Search" function can playback the pre-alarm images. The pre-alarm function is setup in the "Alarm", "Recorder Setting" inside "Utility". You can activate the pre-alarm function accordingly when the alarm function is selected. Please see the section of "Recorder Setting" for the setup details.				
	Note: Pre-alarm images are stored into two temporary files alternatively under normal situation. Therefore, when alarm is being triggered, there will be two pre-alarm files accompanies with the alarm file.				
	Tip: Pre-alarm recording provides an effective way of using the hard disk storage: The pre-alarm image will be kept in the hard disk only when an alarm is actually taken place. Since it provides the image happened before the alarm, you can review what is happening right before the alarm triggering, it is no longer necessary to do schedule recording at all time. For an example, the door was opened, and it triggered the alarm recording and you can also know who opened the door by playback the pre-alarm recording video.				

Scheduled recording	A programmable timer is implemented for scheduled recording. SW-80 support both weekday and weekend scheduled recording. The timer will start and stop scheduled recording automatically according to your input. A green indicator indicates that the camera is recording under the timer control. The default recording duration value is 0, which represents infinity or continue recording. During schedule recording, you can manually over ride to instant recording mode by pressing down the camera button. The indicator will change to yellow to indicate that the camera is under instant recording. However, it will automatically resume scheduled recording once you click the camera button again to turn off instant recording of that camera. The indicator will then resume to green. Please see the section of "Recording Setting" for the setup and implementation example of the schedule recording
	Note: Only the logon username of "SUPER" can access the utility for configuring settings of scheduled recording parameters.
	Tip: The user can verify if scheduled recording is actually taking place by trying to see if the green indicator light(s) in the RECORDER panel is/are lit.
	-

PLAYBACK

Playback the videoRecorded video in all hard disk(s) and removable disk(s) can be retrieved for
playback.
Click the "Play Back" button in the main screen to activate the Select Drive
dialog box. (as shown in Figure 9)

Figure 9



Select Drive

Click the Downward arrow and select desired drive no. C, D, E....from the pull down list

The video player (Figure 10)	Click the "Play search" button in the PROGRAM and select which camera to playback by the play search functions of the SW-80. Once the video is selected, click the "Play" button to invoke the video player.
List File Record	Click the "File Record" button in the Video Player Dialog Menu bar to display the list of video files for the selected camera. Click on the desired file from the list and Click Open File Button to start the playback. The File List will change as the video search engine is manipulated, to match with only those files appear on the video bar window. Click the Reset Button to resume the List of all files on Selected Camera title.



Figure 10

Video playback controls	The video file selected in "Play Search" will be loaded and played automatically. Use the video playback controls beneath the video image to control the video playback function. User can stop the video and use the scroll bar to search the video if needed. Press the "two-arrow" keys to advance one frame at a time.
Playback camera control	Using the camera title control box can select the camera by name or title for playback. Click the downward arrow and click the desired camera for playback. During other playback operation, repeat the same procedure to select the new desired camera for playback, the playback action of the previously selected camera will terminated.
	(Simultaneous playback of two or more recorded videos is possible by invoking the playback operation from the main menu but this is not recommended.)
Absolute date/time and length display	The absolute date/time of the playback and the length of the video will be displayed on the control panel.
Playback speed control	Using the sliding control box can adjust the playback speed. Drag the control button to the right side to increase the playing speed. Drag it left to decrease the playing speed. The normal playback speed is indicated in the speed control box when the control button is put in the middle.
Rewind and replay	Using the Begin/end Marker can select a portion of the current video file to be replay in a loop. Drag the scroll bar (Scroll bar for manual search) to the desired beginning position, click the "Begin" button to enter the marker, then repeat the process to enter the "end" position with the "end" marker button. Click "Play' button to begin the playback with auto-rewind.
Frame mode for print and save a frame	Use "Snap shot" to grab a frame from the video and enter the frame operation mode. User can select area of interest using mouse movement and the mouse left button and then click "Zoom" button to zoom in the image. Click "Unzoom" to return to normal display. Click the "Print" button to print out the image captured. The frame can be saved to floppy disk in drive A by clicking the "Save" button. The saved filename has the following format: x-mmddyy-hhmmss.bmp X: camera number mmddyy: month/day/year hhmmss: hour:minute:second bmp: bmp file extension Tip: The user can set up printer properties for printing hard copy and previewing the hard copy before actual printing.
Return to Video mode	Click the "Video mode" button to go back to video playback mode.

The video search engine*	A vide camer Two d All the inside Differ Y G B R Down color o the Pla A mar shows Point t will sr A date curren	to search engine is a a graphically. ate/time pickers are a vailable recorded the video bar windo ent types of video v ellow - Instance rec reen - Schedule rec lue - Pre-alarm record ed - Alarm recordin the event-search bu coded in the same m ayer is activated. ker, which is a sma multiple video file: the mouse cursor ar map to the nearest "w c/time display box in t date/time value of	a separate funct e used for begin l videos within ow. vill be presente cording video ording video ording video ording video litton to select ty nanner the even ll rectangle box s), marks the "v id click inside ty video header" p n the middle of the marker poor	tional block for video a and end date/time in this date/time limits v d in different colors, o ypes of event under so t. By default all types a inside the video bar video header" position he video bar window, osition of a video. The video search engi sition.	searching of a put and indication. vill be presented codes as follows: earch, they are are selected when window (which of the video. the video marker ine displays the
Playback the current file	Click Once file is	the "Open Single fi the button is pressed reached.	le" icon button l down, the vid	to open the marked v eo will be playback u	ideo for viewing. ntil the end of the
Open the video file and playback continuously	s Click viewin Once contin the bu	the "Open Multiple ng. the icon button is pr uously. Or user car tton to disable the c	files" icon but ressed down, th a click the "Ope rontinuous play	ton to open the marke e videos will playbac en Multiple files" icon back.	d video for k one by one n button to release
Search the video interactively	User c date/ti more c User c click t Use th Repea Click	an directly input the me picker" to select letail. an also use the mou he "Magnify +" ico le left and right arro t the mark and mag the "Magnify all (R	e begin/end dat t interesting po use click to man n to magnify th w icon buttons nify actions to eset)" icon to r	e/time by using the "I rtion of the video bar "k the interesting "vid he interesting portion. to scroll the video ba search for the video o esume to present all a	begin and end window to show in eo header" and then r window. f interest. wailable video.
Mag Begin Date/time picker	nify All et)	Current Magnify +	Date/Time of t	the marker position Event(s) under search	End Date/time picker



*The video search engine is designed to search the available video in the selected hard disk(s) only.

MOTION DETECTION

Motion detection	An advanced digital video-processing algorithm is used to implement motion detection function in SW-80. The motion detection is designed to automatically detect any activities within a selected detection area(s), and to start recording of that camera when activity is detected inside the detection area(s).
Set up the motion detection	Right click the mouse button on the video screen of the camera you want to set motion detection. A "Motion detection setting" dialog box will pop up for motion detection setting.



Set detection area	The first thing to do is to input the detection area(s). Click the "Detection area setup" button to show the grid on video screen for detection area selection. Simply click on any spot to select/de-select the grid(s) to form detection area(s) of any shape in the video screen for motion detection. The "Select all" button is used to rapidly select the whole video screen for detection. The "Clear all" button is used to de-select all the selected areas.
Indicate the detection area	If you want the detection area to be presented on the video screen during normal operation, click the "Show at all time" button. If you don't want the detection area to be presented in the video screen during normal operation, click the "Not show" button.
Set sensitivity for motion detection	Click the "Sensitivity setup" button to display the "activity blocks" for sensitivity setup. The "activity blocks" will superimpose on the moving object to highlight the activities on the video screen. You can adjust the sensitivity by using the sensitivity control box. Click the up arrow button to increase the sensitivity and click the down arrow button to decrease the detection sensitivity respectively. The sensitivity value display inside the control box, which is an arbitrary value, indicates the relative detection sensitivity. Adjust the sensitivity by monitoring the "activity blocks" on the screen to determine that the sensitivity is adjusted to an optimal condition for motion detection and without false alarm. User can check the "Show within detection area" button to confine the "activity blocks" only to display within the detection areas you have selected.
Detection interval	The occurrence of motion is detected by correlating the successive frames of the video. The "Detection interval" control box can adjust the detection interval between these successive frames. The detection interval is in unit of 100mS. The default value is at 200mS.
Recording time extension	The motion detected in the detection area(s) will be used as an event to trigger the alarm recording of the corresponding camera. Once the recording is started, it will continue with an extension time even the motion is stopped. This extension time can be adjusted by using the "Post motion rec." control box. The time interval is in unit of second show inside the control box and the default value is 3 seconds.
Enable the motion detection function	Check the "Motion detection enable" box to enable the motion detection function once you have set all the parameters. (User can temporarily disable the motion detection by uncheck the "Motion detection enable" box. All the settings of the motion detection will stay unchanged, which let the user to enable the motion detection back again afterward more easy). Click the "Close" button, the corresponding camera button in the display panel will light up with a yellow grid indicator to indicate the motion detection function. The detection area will be presented in the video screen if the "Show at all time" button is checked.

Tips

Yellow grid indicator	DISPLAY			
indicates that the motion detection is enabled		H		SEQ
	× 1	2	3	4
	δ	6	7	8
	9	10	11	12
	13	14	15	16

Use the same image resolution for displaying and recording to get better and stable performance of the motion detection function.

When display at QUAD mode; use "High" resolution mode for motion detection recording.

When display at 16-screen mode; use "Low" resolution mode for motion detection recording.

When display at one screen mode use "Supper" mode for motion detection recording.

Without displaying the motion detection camera.

PAN-TILT ZOOM CONTROL

Pan-tilt Zoom	Using the pan-tilt zoom function, the camera can zoom in or out to adjust the view angle of the camera for a better image, or it can pan and tilt the camera to different position of interest for better surveillance. Click the PTZ icon button besides the "EXIT" button to activate the PTZ panel.		
	Note: The camera number setting of the On Site Receiver Driver (OSRD) should be set up correctly with the same camera number as the camera attached to it.		
Driver Mode Setting	Right click the mouse on anywhere of the PTZ Panel, a menu will appear which can select the MODE, PORT SETTING or EXIT. Select the MODE item, a sub menu will show up the item MV912RS, Old OSRD Code, PTZ Receiver Driver and/or other available Custom's option. After your selection, a tick will appear left to the item.		

Note :

To run the pan-tilt function properly, you should match the OSRD with the selected protocol.

(İ 🔁 🔽	Panel		
Camera:	Mode Port Settings Exit	 MV912RS Old OSRD Code PTZ Receiver Driver 	
Iris:	>		
Pan/Tilt Spe	ed: □		
~ T ← ⊕ ⊻ ↓	× + ×		
PrePosition	1 : Show 3 4		

Port Setting

The port setting is about the COM port (the serial port) connection preferences. The default of the connection preferences is as the following figure. Please refer to individual OSRD connection preferences for correct setup of the connection preferences.

Port - Port Connecte	d	×
Port: COM1	<u>B</u> aud Rate:	9600 💌
Data ○ 7	Parity None	_ <u>S</u> top
Flow Control	C Odd C Even	C 1.5 C 2
☐ <u>H</u> ardware	Apply	More >>

Camera Selection	The camera selection box in the PTZ control panel is for selecting the desired camera for PTZ control.
Monitor Selection	While the MV912RS protocol is selected, there will be a monitor selection box in the PTZ control panel.
Speed control	The speed of movement of the pan-tilt head can be controlled. The slide bar is to control the speed of movement.
Pan-tilt zoom control	Once the camera is selected, click the arrow buttons for corresponding direction movement, the focus and zoom control.
Pre-position	The positions of the pan tilt head can be saved so that camera can repeat its position when wanted.
	Set Pre-position
	Use the "Pre-position" box to enter the pre-position number.
	Once the number is selected, pan/tilt the camera to a desired position and then, press "Set" button to assign this position into that particular pre-position number.
	Show Pre-position
	Use the "Pre-position" box to enter the pre-position number.
	Once the number is selected, press the "Show" button to send the camera to the
	saved pre-position.
	Pre-position hot keys
	Four hot keys are implemented for four frequently used pre-positions.
	Once programmed, press these hot keys will send the camera to it's pre-position accordingly.

UTILITY FUNCTIONS

Access to Utility Functions	When the user logged on as "SUPER", he/she is authorized to use the Utility functions. However, if the user logged on as "OPERATOR", the Utility button will be disabled to prevent the password and some other system and recording settings from being modified by the operator. Click on the Utility button on the main screen, and the Utility menu will then pop up as shown in Figure 12.
Re-activate the disabled Housekeeping Functions	The Housekeeping Function of the Utility Menu us disabled in case the PROGRAM is operated in the "Archive" Backup mode. To activate those build-in housekeeping functions from SW-80, switch the system back to "Normal" backup mode. Go to the Option Setting Chapter for further details.



Figure 12

CAMERA CONFIGURATION

Camera title assignment	To assign the Camera title correctly for individual camera connected to the SW-80 unit, Click the "Utility" button and then select the "Camera Setting" button for camera title input. A camera setting dialog box (as seen in Figure 13) will be displayed for camera title input. The default camera title is Camera 1 to Camera 16 respectively. Click the desired input area for data entry, and then input the camera title accordingly. User can use the Backspace and Del keys in the keyboard to edit the text in the input field.
Maximum no. of camera imposed by software	The max. no. of cameras is limited to 4 for model SW-80 and for model SW-8001 etc. This is to match with the design no. of cameras shown in the corresponding part of the generic model no. The camera assignment check box(es) will turn to Grey color and no manual assignment is possible.
Check the active connected cameras	The "Active" check box should be unchecked for the non-connected camera inputs. When the "Active" check box is unchecked to the Cam ID, then the corresponding buttons in the "Display" and "Recorder" panels will be disabled to stop the display and recording function of these camera inputs.
Apply the camera title	Click the "Apply" button to apply the camera titles right away. Click OK to confirm the inputs and close the dialog box. Or you can click "Cancel" button to close the dialog box without change. The camera title will be displayed on the screen to indicate the camera title. The camera title will also be used for the video playback search. The camera number buttons will be disabled in the "Display" and "Recorder" panels for the non-connected camera inputs.

1 Marcanal P 2 Carrena 2 P 3 Carrena 3 P 4 Carrena 4 P 5 Carrena 5 P 6 Carrena 6 P 7 Carrena 7 P 8 Carrena 8 P 9 Carrena 7 P 10 Carrena 7 P 10 Carrena 7 P 10 Carrena 7 P 10 Carrena 7 P 11 Carrena 7 P 12 Carrena 10 P 13 Carrena 12 P 14 Carrena 14 P 15 Carrena 16 P	CamID	Caroera Title	Active
2 Camera 2 3 Camera 3 4 Camera 5 5 Camera 5 6 Camera 6 7 Camera 7 8 Camera 8 9 Camera 7 10 Camera 10 11 Camera 10 12 Camera 12 13 Camera 13 14 Camera 16	1	Camera 1	
3 Camera 3 4 Camera 4 5 Camera 5 6 Camera 6 7 Camera 7 8 Camera 7 8 Camera 8 9 Camera 10 10 Camera 10 11 Camera 11 12 Camera 12 13 Camera 14 15 Camera 16	2	Canera 2	
4 Camera 4 5 Camera 5 6 Camera 6 7 Camera 7 8 Camera 7 9 Camera 3 9 Camera 3 9 Camera 10 11 Camera 11 12 Camera 12 13 Camera 13 14 Camera 15 16 Camera 16	3	Carvera 3	
5 Canera 6 I 6 Canera 6 I 7 Canera 7 I 8 Canera 3 I 9 Canera 3 I 10 Canera 10 I 11 Canera 11 I 12 Canera 12 I 13 Canera 13 I 14 Canera 15 I 16 Canera 16 I	- 4	Camera 4	F
6 Camera 6 7 Camera 7 8 Camera 8 9 Camera 3 9 Camera 10 11 Camera 11 12 Camera 12 13 Camera 13 14 Camera 15 16 Camera 16	5	Canera 5	2
7 Camera 7 8 Camera 8 9 Camera 3 10 Camera 10 11 Camera 11 12 Camera 12 13 Camera 12 14 Camera 14 15 Camera 15 16 Camera 16	6	Canera 6	
8 Camera 8 III 9 Camera 9 IV 10 Camera 10 III 11 Camera 11 III 12 Camera 12 III 13 Camera 13 IV 14 Camera 14 IIII 15 Camera 15 IIII 16 Camera 16 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	7	Comera 7	F
9 Conera 3 IP 10 Conera 10 II 11 Conera 11 II 12 Conera 12 II 13 Conera 13 IP 14 Conera 14 II 15 Conera 15 II 16 Conera 16 II	8	Canera 8	F
10 Conero 10 II 11 Conero 11 II 12 Conero 12 II 13 Conero 13 IV 14 Conero 14 II 15 Conero 15 II 16 Conero 16 II	9	Canera 9	9
11 Camera 11 12 Camera 12 13 Camera 13 14 Camera 14 15 Camera 15 16 Camera 16	10	Carrera 10	F
12 Camera 12 II 13 Camera 13 IF 14 Camera 14 II 15 Camera 15 II 16 Camera 16 II	11	Canera 11	F
13 Camera 13 IP 14 Camera 14 IF 15 Camera 15 IF 16 Camera 16 IF	12	Canera 12	F
14 Camera 14 IT 15 Camera 15 IT 16 Camera 16 IT	13	Canera 13	N
15 Conero 15 Conero 16 Conero 16 C	14	Carrera 14	F
16 Camera 16	15	Canera 15	F
	16	Carera 16	F

Figure 13

DISPLAY			
SEC		SEQ	
1	2	3	4
δ	6	7	8
9	10	11	12
13	14	15	16
_			
R	ECO	RDE	R
R	ECO	RDE	R
 R	EC0	RDE 3	R 4
 1 5	2 6	RDE 3 7	R 4
1 5 9	2 6 10	3 7 11	R 4 8 12
R 1 5 9 13	2 6 10 14	3 7 11	R 4 8 12 16

RECORDER SETTING

The recording parameters	The instant recording, alarm recording and the scheduled recording modes should have their individual sets of recording parameter settings. Click the "Utility" button and then select the "Recording Setting" to start program the recording parameters of individual cameras for different recording modes.
Frame rate	Frame rate is the most important parameter for recording setting. The value of frame rate is in f/s (frame per second), which controls how many frames will be recorded for every second. SW-80 provides a selection list for frame rate input. The possible frame rates are 25, 12.5, 8, 4, 1, ½ and 1/60 frames per second respectively. The ½ frame per second frame rate selection is interpreted as one frame recorded every two seconds, and a 1/60 frames per second frame rate selection means the recording of one frame every 60 seconds.
	Note: The actual frame rate of recording will be same as this setting if the system resource at the condition taken care of other system setting permits. However, the SW-80 may regard this setting as the target maximum frame rate.
The start and end times for scheduled recording	 The start time and end time is needed for scheduled recording. The input time is in the 24-hour HH:MM format. The factory default setting of the weekday recording start time is 0:0 and the default end time is also 0:0. Under this default setting, the camera will start at Monday 0:0 and end at Tuesday 0:0 and then start right away at Tuesday 0:0 and repeat all over again for the rest of the weekdays. Therefore, weekday recording will record at all times from Monday 0:0 through Saturday 0:0. Weekend scheduled recording also has the default 0:0 start time and 0:0 end time. Under default start and end time the unit will start recording at Saturday 0:0 and end at Monday 0:0.

Instant recording	Select the Instant tab inside the Recording Setting menu and a screen similar to
-	that of Figure 14 is shown.
	Input the desired frame per second for individual cameras.
	The default frame rate is 25 frames per second.
	Click OK to confirm the input and close the dialog box or click the X box in
	the upper right corner to close the dialog box after use.
	Tip:

Eight frames per second or above is recommended for instant recording to capture real-time video.



Recording setting for instant recording

Figure 14

Alarm recording	Select the Alarm tab inside the Recording Setting menu (a screen similar to that in Figure 15 would then pop up).
	Check the "ON" box for corresponding camera to enable the alarm input and the alarm recording function.
	Input the alarm recording duration in the (in sec) column.
	Check the Nopen (Normally open) box if the switch connected to the alarm input is a normally opened switch.
	Input the frame per second for individual cameras. The default frame rate is 25 f/s.
Pre-alarm recording	Check the "ON" box in the pre-alarm column to enable the pre-alarm function of the corresponding camera(s).
	Input the pre-alarm duration from one to 60 seconds.
	Every time when the alarm is triggered, the pre-alarm recording image will be saved into a permanent file, which can be retrieved for playback
	Click OK to confirm the input.

Tip:

Pre-alarm lets you review images prior to the actual happening of the alarm event. Also, pre-alarm keeps the images only when the alarm is actually taking place, so that storage space can be used more effectively. This mode is more effective than that in scheduled recording.

	Recording Setting	
	Schedule Weekday Schedule Weekend Alam Instant	
	Cam ID Pre-Alam ON (in sec) NDpen f/s DN (in sec)	DK
Check the cameras for alarm recording		Cancel
Input recording time —		Apply
Check the box if the sensor device is normally open type		
Input frame per second		

Figure 15

Scheduled weekday recording (Figure 16) Select the Schedule Weekday tab inside the Recording Setting menu.Check the camera you want to record.Input the start time and the end time for scheduled weekday recording.Input the frame per second for individual cameras.The default frame rate is 1 frame per second.



Figure 16

Scheduled weekendSelect the Check the Input the Input the The defa	ne Schedule Weekend tab inside the Recording Setting menu. ne camera you want to record. e start time and the end time for scheduled weekend recording. e frame per second for individual cameras. ault frame rate is 1 frame per second.
--	---

Tip:

Scheduled recording is a background recording activity of the recorder. A lower frame rate for scheduled recording will much prolong the recording time. It is recommended to use frame rates of four frames per second or lower for scheduled recording.



Figure 17

Example 1	Suppose you want to start and stop your recording on one camera within the same day every weekday, say 9:00 to 17:00 from Monday to Friday. You should go to the schedule weekday recording menu, check on the desired camera, enter 9:00 in the start time input, 17:00 in the end time input, then enter the frame rate you want and finally click OK to confirm. You will see the green indicator light of that camera in the RECORDER panel at 9:00 to 17:00 to indicate that scheduled recording is taking place.
Example 2	Suppose you want to start recording one camera at 18:00 and stop at 6:00 the next day, for everyday from Monday to Friday. You should go to the schedule weekday recording menu, check on the desired camera, enter 18:00 in the start time input, 6:00 in the end time input, then enter the frame rate you want and finally click OK to confirm. In this case, the recorder will start at Monday 18:00 and then stop at Tuesday 6:00 and the schedule continues every weekday. While on Friday, the recorder would start at 18:00 as usual but it would stop on Saturday at 0:0. Therefore, you should enter another schedule for weekend recording to fit your scheduled planning as a whole.
Audio Recording	Go to the "Options Setting" Chapter for further details.
OPTION SETTING

Display Sequencing Click "Utility", "Option Setting" and then "Display" to get to the sequence display menu.

Enter the dwell time for sequencing duration. The default dwell time is 1 second. Check the camera(s) you want to display during sequencing.

Click Apply to apply the input parameters right away.

Click OK to confirm and close the dialog box.

For sequencing operation please see the "Display" section of this manual.

Example:

The cameras 3, 4, 5, 7, 8, 9, 12, 13, 14, 15, 16 are checked in Figure 18.

Option Setting	×
Display Recording Backup System	
Freedow	1
Dural Time (n. sec)	
Sequencing (Cam ID)	
8 T 6 T 7 T 8	
P 9 F 10 F 11 F 12	
F 13 F 14 F 15 F 16	
OK Cancel Apply	

Figure 18

While in the 1-Screen mode, the sequence will be performed as follows:



While in the 4-Screen mode, the sequence will be performed as follows:



Im	age	resolution
for	all	recording

Select the Recording tab in the Option Setting menu (Figure 19). The Resolution check box controls the image resolution for recording. Super recording mode set the recording in the full resolution, which is 640 pixels by 480 pixels in PAL and NTSC system. High recording mode set the recording in a standard resolution, which is about

384 pixels by 288 pixels in PAL system and is about 320 by 240 pixels for NTSC system.

Low recording mode set the recording in a low resolution, which is about 192 pixels by 144 pixels in PAL system and is about 160 by 120 pixels for NTSC system.

Tip:

Check the "High" box in Resolution for most of the case. It is to optimize the system performance and storage usage.

Option Setting Display Recording	Backup System	
Resolution C SUPER	Recording Mode	Audio attach to camera
C LOW	@ Circular	
Free Space - 849	0 MB Used Spi 12 MB	ace - 1282 MB
OK.	Cancel	Apply

Figure 19

Recording mode selection	Linear recording mode: When linear mode is selected for recording, the recording (alarm, pre-alarm, instance and schedule) will stop automatically when the storage device(s) is all used. Circular recording mode: When circular mode is selected, the recording will keep on by automatically over writing the oldest files once the storage device(s) is full. However, the alarm image file(s) will be protected in this mode.
Attach Audio to Camera	For Models with Audio Recording support only, make sure the system is properly set up for audio recording, equipped with an audio pickup device and have the volume control setup for both recording an playback etc. The message box is opened for input. Enter the camera no. for attaching recorded audio data. When a "0" is entered, no audio recording will be performed. The audio data is now setup to be recorded and playback in sync. With the video part of the selected camera.
Drive capacity	The total space, free space and the used space of the selected drive are displayed simultaneously. A progress bar is displayed to indicate the usage level of the recorder drive graphically.

Backup function	Make sure to select the intended Backup Mode prior the formal use of the SW-80 system for routine video recording.
Normal Mode	Make sure to select the backup drive prior to the backup. Click on Utility, then Option setting, and finally the Backup tab (Figure 20). Click the down arrow in the backup drive box to display the available removable drive(s) for backup and select the desired backup drive. The removable device can be a DVD-RAM drive or a removable IDE hard drive. The user can choose to keep copies on hard disk after backup or not. Click Apply to confirm and click OK to close the dialog box.
Archive Mode	The system is set to "Normal" backup mode as system default. To switch to "Archive" mode, check the bullet option next to Archive, then Apply and OK. The SW-80 application should closed and restarted to effect the change At the start up on Archive backup mode, the main screen of the SW-80 will be slightly modified and refreshed as shown in figure 21.

Option Setting
Display Recording Backup System
C Auchive
F Keep copies on harddisk.
OK Cancel Apply

Figure 20

Figure 21



J

Red – Indicate the Drive is set Active, being used for immediate video recording **Green** – Indicates the Drive is dismounted, ready for physically taken out

Swap Drive (Applicable to Archive Backup mode of operation only)	Make sure the system is properly setup with two available "Removable Hard drive" and there is a fixed hard drive to support system operations. Click the Swap Drive button in the Main Screen and then the "Swap drive" message box will appear as shown in Figure 22. Click the down arrow in the Select drive dialog box next to the Remove button to display the registered removable drive(s) for removal and select the desired drive. Click Remove button and follow the pop up instruction to complete the REMOVE process. The entire drive can be back up (Archive) to other long term storage media such as the DAT or equivalent device with huge storage capacity but may not work as fast. This operation on a dismounted drive can be down off-line (while the SW-80 is closed) or in a separate PC workstation.
Re-insertion of	Click the Swap Drive button in the Main Screen and then the "Swap drive" message box will appear as shown in Figure 22.
Removable Drive	Click the down arrow in the Select drive dialog box next to the Insert button to display the registered removable drive(s) for insertion and select the desired drive. Click Insert button and follow the pop up instruction to complete the INSERTION (RE-Insertion) process.

If a blank new drive is inserted in the slot, make sure it is of the same make and configuration as the removed drive for proper operation.

Swap Drive		×
Insert Drive		
Select Drive		Cancel
	Insert	
Remove Drive		
Select Drive		
_	Remove	

Figure 22

System operation data

Click on the System tab in Option Setting menu (Figure 23)
There are two default usernames for SW-80: SUPER and OPERATOR.
Two passwords can be introduced for security use during the logon session. The users should input the correct password to logon to the system.
You can select the date/time display format to 12-hour or 24-hour format.
Click Apply to confirm the input, click OK to confirm and exit or click Cancel to exit without any changes.

Check the "Logout continue display/recording" box if you want the image to continue to be displayed and instant recording still function activated upon logout

Option Setting
Display Recording Backup System
Password Setting USERNAME PASSWORD
SUPER DEFINITION
Date/Time Display C in 24-hour format (C in 12-hour format
Cogout continue display / recording
OK Cancel Apply

Figure 23

HOUSEKEEPING

Backup

The Housekeeping Menu is disabled when the system is set to "Archive" Backup mode, To revert it to "NORMAL" mode, go to the Options Setting chapter for further details.

Click Utility, Housekeeping then backup to open the backup menu (Figure 24 Select the camera(s) you want to do backup on.

Check the file(s) you want to backup by clicking on the file list, or you can backup all files by checking the backup all files box.

You can keep copies on the hard disk after backup by checking the "Keep copies on hard disk" box.

If you want to clean up old files in the backup device prior to do backup, check the "Delete all files in the backup device" box.

The free storage capacity of the backup device is also shown in the dialog box. Click the "Start" button to start the backup process.

Carnesa All Carnesas				
Carreta	Date/Time	Event	Filename	Size
Camera 1	05/03/99 09:30:32	SCH	1-050399-093032. avi	171 KB
Camera 1	05/03/99 09:29:33	SCH	1-050399-092933.avi	488 K.B
Camera 1	05/03/99 03:25:04	SCH	1-050399-092504.avi	2261 KB
Camera 1	05/01/99 11:11:11	SCH	1-050199-111111.avi	7982 KB
Camera 1	05/01/99 10:56:10	SCH	1-050199-105610. avi	8095 KB
Camera 1	05/01/99 10:41:10	SCH	1-050199-104110. avi	7851 KB
Camera 1	05/01/99 10:26:10	SDH	1-050199-102610. avi	7638 K.B
Camera 1	05/01/99 10:11:10	SDH	1-050199-101110.avi	7431 KB
Camera 1	05/01/99 09:56:09	SCH	1-050199-095609. avi	7646 KB

Figure 24

Backup progress A progress bar will be shown at the bottom of the main screen to indicate the backup progress. The number of files to backup and the progress will be indicated accordingly.



Tip:

Use the Play Search function of the unit to playback video of the backup drive.

Remove video files

Click Utility, Housekeeping and then Remove Files tab (Figure 25). Click the down arrow in the camera box to select one or all cameras. The camera related video files would then be displayed inside the window. You can check the file(s) to delete by clicking on the camera title or you can check the "Delete all files" box to delete all files.

Click Start button to execute the file delete function.

The video files will be deleted to spare storage space and the database will be updated accordingly.

Camera Al Cameras				
Camera	Date/Time	Event	Filename	Size
Camera 1	05/03/99 09:30:32	SCH	1-050399-093032. evi	171 KB
Camera 1	05/03/99 09:29:33	SCH	1-050399-092933. avi	488 KB
Camera 1	05/03/99 09:25:04	SCH	1-050399-092504.avi	2261 KB
Camera 1	05/01/99 11:11:11	SCH	1-050199-111111. avi	7982 KB
Camera 1	05/01/39 10:56:10	SCH	1-050199-105610. avi	8095 KB
Camera 1	05/01/99 10:41:10	SCH	1-050199-104110. avi	7851 KB
Camera 1	05/01/99 10:26:10	SCH	1-050199-102610. evi	7638 KB
Camera 1	05/01/39 10:11:10	SCH	1-050199-101110. avi	7431 KB
Camera 1	05/01/99 09:56:09	SCH	1-050199-095609. avi	7646 KB



Note:

Camera Date/Time	The camera column displays the corresponding camera titles The date/time column displays the record starting date and time
Event	"SCH", "REC" and "ALM" represents schedule, instant and alarm recording events respectively.
Filename	The filename has the following format: <u>x-mmddyy-hhmmss.avi</u>
	x: camera number mmddyy: month/day/year hhmmss: hour:minute:second avi: avi file extension
Size	The file size in KB

Housekeeping tools

Click on the Tools tab to enter the tools utility (Figure 26). Users are recommended to use the "Run Scan Disk" and "Run Disk Defragmenter" functions on a frequent basis to optimize and debug the storage device(s) being used.

Housekeeping	×
Backup Remove Files Tools	
·	
RUN SCAN DISK	
RUN DISK DEFRAGMENTER	
	CLOSE

Figure 26

System Information

Click the System Information button to display the "About DSR" message box, which shows relevant information about the SW-80 (Figure 27).

About PIC	02000		
Pice	PICO2000 Digital Survei Copyright (C) 1999 - UniVision Canada Limite	Close	
	Version	1.6.2	
	Camera System	NTSC	
	Total camera input	16 Video inputs	
	License Type	OEM License	
	OEM ID		

Figure 27

TOO MANY FILES WARNING

Too many files warning message	 All of the recording will be logged with a database system. Even a very short video file (such as few seconds long) will occupy as an entry of the database. Large number of entry will affect the performance of the database management. Therefore, a "Too Many Files Warning" message box is designed to provide information to the user about the file number. A warning message and the exact number of file will be displayed in the "Too Many Files Warning" message box.
Invoke the message box	The "Too Many Files Warning" message box will automatically pop up when the number of file is excess the default value. Or user can press the "Ctrl" "Alt" and "1" in the keyboard, do not use the "1" key located on the Numeric Keypad, to show the message box at any time to check the number of file in the unit.
Remove the message box	User can close the message box by clicking the "X" icon at the upper right hand corner. To permanently disable the message box, user can check the "Do not appear in the future" box and then click the "X" icon to close the message box. Once the "Too Many Files Warning" message box is permanently disabled, user should restart the unit ("Exit", power down and then power up) to re- activate the message box again.
	Tip: False alarm (including by motion detection) will generate many small files. It is recommended to setup the unit properly to avoid false alarm. When the "Too Many Files Warning" is shown, user should remove the out dated files to decrease the number of file.
	Note: The number of file is not directly related to the storage space usage of the hard drive.



User can adjust the default value of the "Too Many Files Warning" signal.
Right click the mouse button inside the dialog box, and then click "Setting", a setup dialog box will be displayed.
Warning string:
The default warning string is "Remove files/use longer duration for alarm
recording".
<u>Filename string:</u>
The default value is "c:pico\image*.avi"
Don't change this default or the warning message will not work properly.
Warning number of files:
The default value is 1500.
<u>Update time interval (sec):</u>
The default value is 5 seconds.
Click "OK" to confirm input or "Cancel" to cancel the change.

Warning string:
Remove files/use longer duration for alarm recording
Filename string:
c:\pico\image*.avi Browse
Warning number of files:
1500
Update time interval (sec): OK
5 Cancel

WORKING AT LOGOFF

Log off	Click the Log ON/OFF button on the main screen to log off. Once logged off, the unit will not show any video images. The PROGRAM logo will then be displayed on the screen.		
	Note: You should re-logon with the correct password to regain operation of the unit. Note: In the System menu of Option Settings, check the "Logout continue display/recording" box if you want the image to be continually displayed after logoff.		
Recording during log off	The alarm and scheduled recording functions of the unit will keep on working during the logged off period. SW-80 will continue recording even if the unit is under the logged off condition.		
	Note: In the System menu of Option Settings, check the "Logout continue display/recording" box if you want the instant recording function to be continually functioning after logoff.		

SHUT DOWN THE UNIT

Exit

Make sure that all the current recording jobs of the SW-80 is closed before shutting down the system to prevent data loss. Click the EXIT button on the main screen and confirm shutdown. The system will automatically shut down and power off.

SYSTEM MAINTENANCE

Schedule backup and remove the video file	The video files in the SW-80 unit should be backup and remove in a regular basic with a properly setup scheule.This will insure that the performance of the SW-80 unit is working under its optimum condition.It is also a vital procedure to prevent from data lose due to out of storage space of the hard drive.
Compact Database system	As a normal operation, it is recommended that user should log off and turn off the SW-80 unit in a monthly basic. This will allow the database to close and then do some optimization and compacting of the record configuration during the system power up.

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Appendix I DSR Configuration at Control Panel

(New feature)

In order to seamlessly integrate the DSR with the Windows environment, a DSR configuration icon is implemented in the Control Panel of the server machine. User can go to the Control Panel (Start->Settings->Control Panel) and double click the DSR configuration icon to invoke the DSR configuration dialog. A "Logon" dialog box will pop up for password protection. User uses the SUPER as username and the corresponding password to logon for DSR configuration operation.

User can configure the DSR prior to run the DSR program.

The available DSR configuration settings are listed in the following table:



Alarm Alert Enable

Enable the Alarm Alert function.

Alarm Files Overwrite Enable

By default, the alarm files will not be deleted during circular mode. However, user can check the enable box in the dialog to allow oldest alarm files to be deleted during circular recording. Note:

Motion detection triggered and hardwires triggered alarm files are treated equally as alarm files.

Configuration backup and restore

This utility allows user backup the DSR configuration prior to install or re-installs the DSR software in order to prevent loss of configuration data. Also, a DSR configuration template disk can be prepared for easy DSR setup during mass production.

The configuration parameters to be backup include the following items:

Camera title, enable/disable System settings Recorder settings Motion detection settings System retain parameters Alarm schedule (the one which is currently in use)

Hide DSR

A "Minimize" button will be placed on the top right hand corner of the DSR display window frame.

User clicks the "Minimize" button to hide the DSR display window.

PTZ control Enable

Enable the PTZ function.

Configure the PTZ control

PTZ User Account Management

Only one user is allowed to operate the PTZ control at a time, a user account with priority level should be setup for management. Click "Add" button to add a new user with priority level. The highest level is 1. Select a user and click "Remove" or "Edit" button to remove or edit the user input respectively.

Pan Tilt Zoom			×
Configuration L	Jser Account		
UserName Matthew		Priority Level	Total Users: 3
Francis HW		2 3	
			Add
			Remove
			Edit
	OK	Cancel	Apply

PTZ Control Hardware Configuration

Select the PTZ receiver driver protocol, RS232 port number, Baud rate (9600 as default value), data (8 bit as default value), parity (none as default value), stop bit (1 bit as default value) and flow control.

Pan/Tilt/Zoon	1		×
Configuration	User Account	1	,
Model 🛄	TRAK_KD6		•
Port CO	M1 💌	Baud Rate	3600 💌
-Data-	- Parity	Stop	Flow Control
0.7	None	€ 1	Software
• 8	O Odd	C 1.5	🗖 Hardware
	C Even	C 2	
OK Cancel Apply			

PTZ Driver Model Setting

Select the Model item, a drop down menu will show up the available models.

Note:

Following list are the current PTZ control protocols supported by DSR.

Model	Protocol/OSRD/Connection Interface		
KALATEL_KTD312	KTD-312 computer interface ASCII Protocol, RS-232 to RS-232		
PELCO_ASCII	Pelco ASCII Protocol (Revision G), RS-232 to RS-422/485		
PELCO_SPECTRA	Pelco "D" Protocol, RS-232 to RS-422/485		
PHILIPS_AUTODOME	PHILIPS (BURLE) Auto Dome RS-232 to RS-422/485		
	LTC0809 Series		
UEL_MV912RS	UEL OSRD model of MV912RS		
UEL_MV961A	UEL OSRD model of MV961A, MV561		
	PHILIPS (BURLE) On-Site Receiver/Driver, RS-232 to Biphase		
	LTC8561 Series :		
	LTC8564/20		
	LTC8566 Series		
ULTRAK_KD6	Ultrak KD6 Auto Dome		
VICON_SURVEYOR99	V5UWM, VICON Surveyor99 Camera Dome RS-232 to		
	RS-422/485 Surveyor99 Series		

Note:

The DSR unit provides only RS-232 output connection, all other serial connections by external converter are provided by the user themselves.

PTZ Control Serial Port Setting

The port setting is about the COM port (the serial port) connection preferences.

The default of the connection preferences is as the above figure.

Please refer to individual OSRD connection preferences for correct setup of the connection preferences.

Select Hard Drive to Record and Disk Space Utilization Control Select Hard Drive(s) to Record

Delect Driv	e to Record	×
- Select Drive		Drive Type
🔽 C: Local	D 0	🔽 Local
🔽 D: Local	E P	E Remote
🔽 E: Local	— Q	
🔽 F: Local	🗖 B	
G	L S	
🗖 H	ПТ	
	Πu	
ΠJ	$\square \lor$	
🗖 К.	$\square ~ \forall$	(OK)
	Ξ×	
n 🗖	ΠY	Cancel
🗖 N	🗖 Z	
- Space Utiliza	tion Control	
Re	served Space (MB)	1500
File	s Retention Limit (MB)	2000

Default to use all available hard drive(s) for recording.

The C: drive is used for system and memory swapping, it is recommended not to use it for video recording.

It is recommended to install hard drive(s) with at least 15GB for recording.

Disk Space Utilization Control

Two parameters are being used for disk space utilization control, which are "Reserved Space" and "File Retention Limit".

The minimum value of "Reserved Space" and "File Retention Limit" are 1.5GB and 2.0GB respectively.

The "Reserved Space" and "File Retention Limit" values will be increased to 7% and 10% of

the disk capacity respectively, when bigger disk capacity is being used.

Increase the value of these parameters will increase the safety margin in order to provide more reliable recording performance.



Linear recording mode:

Recording will stop automatically when all the selected hard drives' available space is lower than the "Reserved Space" value.

Circular recording mode:

A separate process for deletion will be started automatically to delete the oldest files when all the selected hard drives' available space is lower than the "Reserved Space" value. The delete file process will recover the disk space until it reaches the "File Retention Limit" value.

Time Stamp Enable

User selects and enables date and time overlay to each camera for display and recording.

T	ime Stam	p Setup)		×
	- Time Sta	amp for C	amera		
	1	□ 5	9	🗖 13	
	2	Γ6	L 10	🗖 14	
	Π3	Γ7	1 1	🗖 15	
	Γ4	□ 8	□ 12	l 16	
			_		
OK Cancel					

Video Server User Manager

Prior to use the DSR, the remote online view clients should be registered through the Video Server User Manager.

Double click the Video Server to invoke the Video Server User Manager dialog box.

Video Server User Manager	×
User Name:	
Matthew	New User
	Edit
	Delete
	OK
	Cancel
Password Protection	

Check the Password Protection box in the button to enable the password protection of the server. There will be no password protection for the user to come in if the Password Protection check box is not checked.

You can add new user, edit the existing user information or delete a user by clicking the appropriate buttons.

New User			×
<u>U</u> ser name:			
Password:			
<u>C</u> onfirm Password:			
Time Limit:	0		Min.
– Camera Er	abled		_
V 1 V	2	V 3	☑ 4
V 5 V	6	7	V 8
V 9 V	7 10	🗹 11	🔽 12
🔽 13 🔽	14	🔽 15	🔽 16
OK		Car	ncel

Each user entry has a name, password, time limit for continuous logon and the camera restriction information settings.

Appendix II

Video Transmission Server Function

DSR provides video server function to do video transmission to a remote client machine for remote online view of the cameras.

The video server supports video transmission over any networking that provides TCP/IP protocol connectivity.

In order to monitor and control the client user logon, a Video Server control panel is provided.

Press Alt-Ctrl-2 keys together to invoke the Video Server control panel.

The control panel divided into two parts.

The upper window is for the current usage display, which shows the current user and the camera under viewing.

The lower window is the usage history event log.

Administrator can click on the user ID to highlight the entry and then click Disconnect or Terminate to end the user logon.

Video Server				×
ID IP Address 1 192.168.42.63	User	Camera 1	Status Viewing	
Disconnect Terminal Jun 29 17:50:21 Accept Jun 29 17:50:21 # 1 sel	e : 192.168.42.63 as : ects camera 1.	# 1.		×

Video Server User Manager

An icon called DSR will be installed in the Windows Control Panel (click Start > Settings > Control Panel) once the DSR is installed.

Prior to use the DSR, the remote online view clients should be registered by using the Video Server User Manager.

Double click the DSR icon to invoke the DSR configuration dialog and start Video Server User Manager dialog box.

		New U	lser				×
Video Server User Manager User Name: Matthew E	v User	New U User Passu Confir Passu Time Can	Iser name: word: m word: Limit: nera En 1 ⊽	0 abled	▼ 3		Min.
	elete	▼	5 🔽	6	7	₽	8
	OK	V	9 🔽	10	☑ 11		12
Ca	ancel		13 🗸	14	15		16
Password Protection			OK		Ca	ncel	

You can add new user, edit the existing user information or delete a user by clicking the appropriate buttons.

Check the Password Protection box in the button to enable the password protection of the server.

There will be no password protection necessary for all users to come in if the Password Protection check box is not checked.

Each user entry has a name, password, time limit for continuous logon and the camera restriction information settings.

Appendix III

Working at Log off Guide

Log Off

Click the Log ON/OFF button on the main screen to log off.

The EXIT button is disabled during log off to prevent accidental or unauthorized termination of the surveillance function.

Note:

You should re-logon with the correct password to regain operation of the unit after logoff.

Display During Log Off

For logoff display selection, go to the System Menu of Option Settings, check the "Continue Display" box if you want the image to be continually displayed after logoff.

If you do not check the "Continue Display" box, once logged off, the unit will not show any video images and the DSR logo will then be displayed on the screen.

Recording During Log Off

Alarm & schedule recording

The alarm and scheduled recording functions of the unit will keep on working during the logged off period.

Instant recording

In the System Menu of Option Settings, check the "Logoff continue recording" box if you want the instant recording function to be continually functioning after logoff.

Transmission during Log Off

DSR will continue transmission for remote online view even if the unit is under the logged off condition. **Note:**

To disable transmission via Dial-in, you have to turn off the Modem (by switch or by disabling the Modem driver). Please see detail instruction as mentioned under the Remote On-line Viewing and Playback Recorded Video section.

PTZ During Log Off

Go to the System Menu of Option Settings, check the Continue PTZ box if you want the PTZ functions to remain after logoff.

Appendix IV

Alarm Alert Modules

Alarm Alert modules are designed to work with the DSR.

Once the DSR receives an alarm triggering, either from alarm inputs or motion detection, it will activate the alarm alert modules to alert the outside world.

The alarm alert application consists of two software modules, the Alarm Alert Caller and the Alarm Alert Receiver.

The Alarm Alert Caller runs with the DSR unit and the Alarm Alert Receiver is installed in the remote machine.

The alarm alert signal can reach the remote machine through dial-up connection, LAN connection or through Internet connection.

Alarm Alert Configuration



Through Dial-up connection

Alarm Alert Caller setup in DSR unit

- Prior to use the DSR software, make a New Connection for the remote unit inside the Dial-Up Networking folder.
- Please refer to the Appendix of How to Setup a Dial-up Connection in order to set up the DSR unit as a Dial-up client machine.
- After the DSR software is started, press the "Windows" button in the keyboard to show the task bar.
- Right click the Alarm Alert icon in the task bar to show the Alarm Alert Caller Setup window.
- Select Dial up in the Connection Mode.
- · Click the Setting button to show the Dial-up connection window.

Dial-up Connection				
Sele to, a pass	ect the service you want to connect and then enter your user name and sword.			
Connect to:	Alarm 1 💌			
<u>U</u> ser name:	francis			
Password:				
	✓ Save password			
	Connect automatically			
Connect	Settings Cancel			

- Inside the Connect to input box, click the down arrow to select connection from the available connection name inside the Dial-up Networking folder.
- Make sure to check the Save password box.
- Input the IP address of the remote unit in the Alarm Alert Receiver Name/IP • box.

Click Apply and OK to end set up.

- · Alarm Alert Receiver setup in Remote unit
- A Dial-up Server should be installed in the remote unit to allow the remote unit to receive telephone call.

Through LAN Connection

- The Dial-up Adapter of the remote unit should have TCP/IP protocol attached and with a fixed IP address assigned by the administrator.
 - Please refer to the Appendix of How to Setup a Dial-up Connection in order to set up the remote unit as a Dial-up server machine.
 - · Alarm Alert Caller setup in DSR unit
 - DSR should have the LAN connection correctly setup so that it can see the
 - · remote unit inside its Network Neighborhood.
 - · After the DSR software is started, press the "Windows" button in the keyboard
 - to show the task bar.
 Right click the Alarm Alert icon in the task bar to show the Alarm Alert Caller
 - Setup window.
 Select LAN in the Connection Mode.
 Input the computer name or the IP address of the remote unit in the Alarm Alert
 Receiver Name/IP box.
 - Alarm Alert Receiver setup in Remote unit

Through Internet	The remote unit should have a Computer name and Workgroup assigned
connection ·	correctly, so that other machines within the LAN can see it in their Network
	Neighborhood.
	The LAN card adapter of the remote unit should have TCP/IP protocol attached
	with the IP address assigned to it automatically at start up.
	Alarm Alert Caller setup in DSR unit
	The DSR unit should be connected to the Internet through its ISP.
	After the DSR software is started, press the "Windows" button in the keyboard
	to show the task bar.
	Right click the Alarm Alert icon in the task bar to show the Alarm Alert Caller
	Setup window.
	Select LAN in the Connection Mode.
	Input the domain name or IP address of the remote unit in the Alarm Alert
	Receiver Name/IP box.
	Alarm Alert Receiver setup in Remote unit
	Make connection to the Internet
	The remote unit should be assigned with a fixed IP address automatically by
	the ISP or the remote unit has a static domain name.

Alarm Alert Receiver in the Remote Machine

The Alarm Alert Receiver usually come with the Remote Intelligent Player and will be installed with the Remote Intelligent Player in the remote machine.

Start the alarm alert receiver

Double click the Alarm Receiver icon to start the Alarm Alert Receiver module.

A small Alarm Alert Receiver icon will shown inside the task bar of the Desktop window.

User can right click the Alarm Alert icon and click restore to show the Alarm Alert display window manually.

Alarm operation

The Alarm Receiver window will pop up automatically when DSR alarm occur.

The alarm camera and DSR IP address will be displayed with the date/time info.

Double click the camera number to invoke online view of the alarm camera.

Click Acknowledge to stop the alert signal.

Click Hide to hide the Alarm Alert receiver window.

	t Receiver				_	
	Curren	t Active A	larm			
Camera	Station	Status	Date	Time		
1	192.168.55.2		2000-07	17:02:25		
		Alarm Log	I.			
Camera	Station	Alarm Log Status	Date	Time		
Camera 1	Station 192.168.55.2	Alarm Log Status On	Date 2000-07	Time 17:00:17		
Camera 1 1	Station 192.168.55.2 192.168.55.2	Alarm Log Status On On	Date 2000-07 2000-07	Time 17:00:17 17:00:30		
Camera 1 1 1	Station 192.168.55.2 192.168.55.2 192.168.55.2	Alarm Log Status On On Off	Date 2000-07 2000-07 2000-07	Time 17:00:17 17:00:30 17:00:40		
Camera 1 1 1 1	Station 192.168.55.2 192.168.55.2 192.168.55.2 192.168.55.2	Alarm Log Status On On Off On	Date 2000-07 2000-07 2000-07 2000-07	Time 17:00:17 17:00:30 17:00:40 17:00:57		
Camera 1 1 1 1 1 1	Station 192.168.55.2 192.168.55.2 192.168.55.2 192.168.55.2 192.168.55.2 192.168.55.2	Alarm Log On On Off On Off	Date 2000-07 2000-07 2000-07 2000-07 2000-07	Time 17:00:17 17:00:30 17:00:40 17:00:57 17:01:14		
Camera 1 1 1 1 1 1 1	Station 192.168.55.2 192.168.55.2 192.168.55.2 192.168.55.2 192.168.55.2 192.168.55.2	Alarm Log On On Off On Off On	Date 2000-07 2000-07 2000-07 2000-07 2000-07 2000-07	Time 17:00:17 17:00:30 17:00:40 17:00:57 17:01:14 17:02:25	×	

Note:

To make sure (diagnose) the system and network are correctly set up for the Alarm Alert function: - the DSR station should be able to ping the IP address of the remote client unit.

Appendix V

Remote Online Viewing and Playback Recorded Video

Intelligent Remote Player

An Intelligent Remote Player is designed to provide online viewing and playback recorded video functions in the remote client station.

Please refer to the Intelligent Remote Player User Manual for detailed operation procedure. Please refer to Section 3 of the DSR Installation Guide for the system setup for Remote Player operation.

DSR Folder Sharing for Remote Playback

(Upgraded feature)

In order to allow remote playback to work, DSR should have to share the video folder(s) so that the remote playback station can find the DSR machine inside its Network Neighborhood and read the shared video folder(s) in the DSR unit.

The expected Share Name of the video folder(s) is listed as follow:

Folder Name		Share Name
c:\DSR-video	dsr	-video
d:\DSR-video	dsr	-videod
e:\DSR-video	dsr	-videoe
		•••
i:\DSR-video	dsr	-videoi
•••		•••

Go to each video folder in every available hard drive, point and right click the mouse on the "DSR-video" folder icon. Select Properties-> Sharing-> Shared As and then input the corresponding Share Name.

Add the "File and printer sharing for Microsoft Networks" service to the Network setting of the DSR unit. Click Start->Settings->Control panel->Network->Add->Service->Add-> File and printer sharing for Microsoft Networks->OK

Note:

To make sure (diagnose) the system and network are correctly set up for the remote playback function: - the remote playback station should be able to find the DSR machine inside its Network Neighborhood and can read the DSR machine shared video folder(s).

DSR Network Configuration for Remote Online View

DSR provides Video Transmission Server Function in order to support remote online view through TCP/IP networking.

The following table describes about the network configuration for different types of connection.

Through Dial-up	In DSR unit:
connection ·	A Dial-up Server should be installed in the DSR unit to allow the DSR unit to receive telephone call.
	The Dial-up Adapter of the DSR unit should have TCP/IP and NetBEUI
	protocols attached and with a fixed IP address assigned by the administrator.
	Please refer to the Appendix of How to Setup a Dial-up Connection in order to set up the DSR unit as a Dial-up server machine.
	In Remote Client side:
	Remote unit should make a New Connection for the DSR unit inside the
	Dial-Up Networking folder.
	Please refer to the Appendix of How to Setup a Dial-up Connection in order to
	set up the remote unit as a Dial-up client machine.
·	Remote user input the IP address of the DSR unit to start on-line view.
I nrougn LAN	In DSR unit:
Connection ·	The DSR unit should have a Computer name and workgroup assigned
	correctly, so that other machines within the LAN can see it in their Network
	Neighborhood.
	The LAN card adapter of the DSR unit should have TCP/IP and NetBEUI
	protocols attached with the IP address assigned to it automatically at start up.
	The Client for Microsoft Networks should be added to the Network
	configuration.
	In Remote Client side:
•	The remote unit should have the LAN connection correctly setup so that it can
	see the DSR machine inside its Network Neighborhood.
	Remote user input the computer name of the DSR unit to start on-line view.
Through Internet	In DSR unit:
Connection ·	Make connection to the Internet.
	The DSR unit should be assigned with a fixed IP address automatically by the
	ISP or the DSR unit has a static domain name.
	In Remote Client side:
	The remote client machine should be connected to the Internet through its ISP.
	Remote user input the domain name or IP address of the DSR unit to start
	on-line view.

Note:

To make sure (diagnose) the system and network are correctly set up for the remote online view function: - the remote client station should be able to ping the IP address of the DSR unit.

Appendix VI

Internet Connection Guide

How to Setup a Dial-up Connection

Dial-up Server Machine Setting

A Dial-up Server is a machine to receive telephone call in order to create a dial-up connection for a dial-up client machine.

Network Configuration	Click Start->Settings->Control Panel->Network->Configuration
	Make sure the following items have been installed
	Client for Microsoft Networks
	· Dial-Up Adapter
	· NetBEUI->Dial-UP Adapter
	· TCP/IP->Dial-Up Adapter
Network Identification	Click Start->Settings->Control Panel->Network->Identification
	Make sure to input a computer name and the workgroup.
Install Dial-up Server	Click Start->Settings->Control Panel->Add/Remove
	Programs->Windows Setup->Communications->Details
	• Make sure the "Dial-up Server" box having been checked, then
	click "OK", and "Apply";
	· Insert your 98 Setup CD onto your CD-ROM, then click "OK";
	· Dial-up Server should be installed successfully after files copying is
	done.
Configure the Dial-up	· Double click My computer->Dial-Up Networking->Connections(in
Server	the menu bar)->Dial-Up Server
	· Check the "Allow caller access" option box, click "Server Type", a
	"Server Types" dialog box appears;
	· Select "PPP: Internet, Windows NT, Windows 98" option from
	"Type of dial-up Server" combo box, and uncheck the "Required
	encrypted password" box, then click "OK";
	· Click "Apply", then "OK".
TCP/IP Setup for the	Click Start->Settings->Control Panel->Network->Configuration
Dial-up Adapter	· Highlight the "TCP/IP->Dial-up Adapter" item, then click
	"properties", a "TCP/IP properties information" message box pops
	up, click "OK", a "TCP/IP properties" dialog box will appear;
	• Make sure the "IP Address" Tab is selected; *Check the "Specify an
	IP address" option, enter "192.168.55.1" as an example to the IP

•

Address entry, enter "255.255.255.0" to the Subnet Mask entry; Click "OK" twice, a copy file dialog box will appear, you may require to insert the Windows98 SE Installation CD-ROM for system files update. Restart the computer.

Dial-up Client Machine Setting

A dial-up client machine is a machine to create a dial-up connection by making a telephone call to the dial-up server.

Network Configuration	Click Start->Settings->Control Panel->Network->Configuration
	Make sure the following items have been installed
	Client for Microsoft Networks
	· Dial-Up Adapter
	· NetBEUI->Dial-UP Adapter
	· TCP/IP->Dial-Up Adapter
Network Identification	Click Start->Settings->Control Panel->Network->Identification
	Make sure to input a computer name and the workgroup.
Make a New Dial-up Connection	Double click My computer->Dial-Up
	Networking->Connections(in the menu bar)->Make New
	Connection
	Input to the following boxes
	• Type a name for the computer you are dialing
	· Select a modem
	· Area code
	· Telephone number
	· Country code
	A new connection icon with the computer name to call will
	appear
Configure the new connection	Right click the new icon with the computer to
	call->Properties->Server Types
	· Select type of dial-up servers as PPP, Internet, Windows
	NT Server, Windows 98
	· Check Log on to network
	Check Enable software compression
	· Check NetBEUI
	· Check TCP/IP
	You can assign a fixed IP address to your machine for dialup

connection, which will make sure the connection to work as

long as you don't create an IP address assignment conflict. Click TCP/IP Settings ->Specify the IP address*Enter 192.168.55.2 Click OK

*If you are using an existing network workstation, please consult your network administrator for the correct setting.

Making Sure You Have a Good Connection

If you are having connection problems, you can try using the ping command. Ping sends out a request to see if a certain computer at a given IP address is indeed there. After you have made a connection (a dial-up, LAN or Internet) open a Windows DOS session (click Start->Programs->MS-DOS Prompt). Type ping 192.168.42.63. This is the IP address for a computer in your LAN. If ping works, your TCP/IP stack and connection to the target machine is working.

You can type ping 204.71.200.75, which is the IP address for www.Yahoo.com (the web server at Yahoo.com). If ping works, your connection to the Internet is working.

Appendix VII

Find Out Your IP Address

You can use winipcfg command to display your current TCP/IP configuration. To run the winipcfg command, Click Start->Run->typing winipcfg->OK

Ethernet Adapter Information	
	RTL8139(A) Based NDIS 5.0 driv
Adapter Address	00-48-54-60-94-9A
IP Address	192.168.42.63
Subnet Mask	255.255.255.0
Default Gateway	192.168.42.254
OK Re Release All Re	elease Renew

You can check the information for your LAN adapter (TCP/IP protocol bounded), your IP address which is 192.168.42.63 in this case, is automatically assigned by your network DHCP server. People in the LAN can ping you by using this IP address.

Maile Configuration	
Ethernet Adapter Information	
	PPP Adapter.
Adapter Address	44-45-53-54-00-00
IP Address	154.5.80.172
Subnet Mask	255.255.0.0
Default Gateway	154.5.80.172
	Henew
	enew All

Other than the LAN adapter, you can also have the PPP adapter, which is your TCP/IP protocol bounded Dial-up adapter (your modem, in other word).

If your IP address is dynamically assigned by your ISP, the IP address field and the subnet mask field will be filled with zeros. As soon as you make a Dial-Up Networking connection, you are assigned an IP address. To find out what it is, run winipcfg and click the Renew All button.

People in the Dial-Up Networking connection can ping you by using this IP address.
VisionNet SW-80 User Menu

*When you have trouble printing out please make sure that your printer is setup properly.

Installing printer:

- 1. Click Start->Setting->Printers.
- 2. In Printers window, select and click Add Printer.
- 3. In Add Printer window, click Next.
- 4. Click the manufacturer and model of your printer.
- 5. Click available port.
- 6. If your printer is not listed on screen, consult with your printer dealer.

*When the printing still does not work, please check the cable is connected properly.

Warranty Guide

This product has passed through our quality control and test, and if you find any problems or get broken during normal use we provide 12 months warranty service.

- 5 times on-site warranty service within the first year purchased.
- Customer must show VisionNet's Invoice in order to get warranty service.

Warranty Guide

- Please contact VisionNet Technology after checking out any defect in the product.
- The standard for repairing, replacement or reimbursement follows Customer.

Warranty Content

- Any defect under normal use within the warranty service period we give you free repair service according to the warranty sheet.
- We charge you with the fee of parts and service despite free warranty service period.
 - 1. Any breakage made without care.
 - 2. Breakage or trouble made by natural disaster.
 - 3. Breakage or trouble made by breaking the product guide or manual.
 - 4. Breakage or trouble made by wrong power voltage or frequency.
 - 5. When you want to reassemble for full system or replace parts within warranty service period.
 - 6. When unauthorized engineer modified or made damage on the product trying to repair it, we may charge you with the fee.
- We don't support the breakage after warranty service period. If the customer wants to get it repaired, we charge them with the fee.

VisionNet Technology

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