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# Multimedia Software CD-ROM

**Release Date : Sep 1997**

**Release Rev. : 1.4**

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## 1. Description

The 1st MMCD (MultiMedia Software CD-ROM) is manufactured in May, 1997. The CD-ROM is ONLY for SOUND CONDUCTOR 16 PnP Card series and ESS MODEM series. ALL RIGHTS ARE RESERVED. The CD-ROM includes:

### I. Application:

<b>Name:</b>	<b>Model Use:</b>
Voyetra	Crystal(6 languages) and PCI Sound-SC972
AudioRack	ESS(2 languages) , FM RADIO-SC320 and PCI Sound-SC970
FM Radio	FM RADIO-SC320(2 languages)
Studio Lite	PCI Sound-SC970
MixMan	PCI Sound-SC970
Internet Media Player	All sound cards available
Essphone	ES336ISP ESS Modem

### II. Driver:

<b>Model:</b>	<b>Driver Type:</b>
ES1868	Win95, Win3.1(DOS included), WinNT3.51/4.0, OS/2 , software wavetable driver for Win95
ES1869	Win95, Win3.1(DOS included), WinNT4.0, OS/2 , software wavetable driver for Win95
FM RADIO	Win95, Win3.1(DOS included)
Crystal series(423x)	Win95(12 languages), Win3.1(DOS included), WinNT4.0(6 languages)
SC972	Win95(8 languages), Win3.1(DOS included), WinNT4.0
SC970	Win95(DOS included)
ES336ISP	Win95

**III. Game:** shareware DOS, Win3.1 and Win95 games

## 2. Version Note

**1.4 version updates the followings:**

1. Add ES1869 driver for IBM OS/2.
2. Add "MixMan" application for PCI Sound-SC970.
3. Update SC972 driver for Win95/3.1x, WinNT4.0.
  - Windows 95 driver (4.02.00.1033)--
    1. Add protection against being govern odd sized buffers on multibyte data types.
    2. MIC Monitor removed to make mixer more industry standard.
    3. Will now share the LPT ports IRQ if possible for AudioPCI Legacy support.
    4. Fix ECW install bug if destination was the same as the source.
    5. Move APINIT from AUTOEXEC.BAT to DOSSTART.BAT
  - Windows 3.1x driver (3.30.06)--
    - Update mixer.
  - Windows NT4.0 driver (4.00.19)--
    1. Fix WaveInLineChange handler to properly set the line routing for the mixer.
    2. Update mixer to porperly set MIC bias setting on startup.
    3. Fix call to WaveOutGetPosition to pass HQL test.
4. Add ES1869 software wavetable driver (V4.04.00.1140) under Win95.
5. Add FM RADIO-SC320 Japan radio mode(channel 76-91Mhz) application software. This application is still English v  
ersion for Win3.1X/95 and **only** works for **SC320 JAPAN Module(optional)**.
6. Add content of ES1868/1869 software wavetable driver installation to "readme.txt" and "readme.doc".

### 1.3 version updates the followings:

1. Update ES1869 Win3.1 driver (ver 4.17.07)
2. Add/update AudioRack English (ver 1.09) for Win3.1.  
which supports ES1868/1869. Now, this CD-Title 1.3 version  
provides ES1869 sound applicaiton under Win3.1 English.
3. Update Crystal sound card series Win95 English, French, German,  
Japanese and Spanish drivers. (ver 4.03.2500) for pass PC97
4. Add Crystal sound card series Win95 Chinese Traditional and Koorean drivers.
5. Update Crystal sound card series WinNT4.0 English and Japanese drivers. (ver 1.71) for pass PC97
6. Update SC972 "Voyetra" sound application (release version).
7. **Add newest PCI Sound Card-SC970 driver and AP under Win95.**
8. Fix ES1868 driver for WinNT4.0.
9. Add FM Radio application Chinese Traditional version.
10. Add ES1868 software wavetable driver for Win95
11. Add ES336ISP ESS Modem driver and ESSPhone application for Win95
12. Add "Internet Media Player" application software demo version.
13. Add "Studio Lite" application software only for PCI Sound-SC970
14. Add "AT Commands" to "readme" file.

## 3. Directory Detail

\Readme.txt	this readme file
\Readme.doc	this readme file (doc format)
\App\Cystal\Voyetra\English	Crystal sound application in English under Win3.1/95/NT4.0
\App\Cystal\Voyetra\French	Crystal sound application in French under Win3.1/95/NT4.0
\App\Cystal\Voyetra\German	Crystal sound application in German under Win3.1/95/NT4.0
\App\Cystal\Voyetra\Italian	Crystal sound application in Italian under Win3.1/95/NT4.0
\App\Crytal\Voyetra\Japanese	Crystal sound application in Japanese under Win3.1/95/NT4.0
\App\Cystal\Voyetra\Spanish	Crystal sound application in Spanish under Win3.1/95/NT4.0
\App\Ess\Arack\English	ES1868/ <b>1869</b> sound application in English under Win3.1
\App\Ess\Arack\Japanese	ES1868 sound application in Japanese under Win3.1

\App\Ess\Arack32\English	ES1868 sound application in English under Win95
\App\Ess\Arack32\Japanese	ES1868 sound application in Japanese under Win95
\App\Ess\Rack32	ES1868/ <b>1869</b> sound application under Win95
\App\Essphone	ES336ISP modem communication software under Win95
\App\Fmradio\ChineseT under Win3.1/95	FM RADIO application software in Chinese Traditional
\App\Fmradio\English	FM RADIO application software in English under Win3.1/95
\App\Fmradio\English\Jmode	FM RADIO application software in English under Win3.1/95 which supports Japan radio mode (76-91Mhz)
\App\Iplayer	Internet Media Player; Demo version under Win95
\App\PCISOUND\SC970\ARACK32	SC970 sound application in English under Win95
\App\PCISOUND\SC970\Mixman	SC970 sound application in English under Win95
\App\PCISOUND\SC970\Studle	Midisoft Studio Lite; Midi Software under Win95
\App\PCISOUND\SC972\English	SC972 sound application in English under Win3.1/95
\Driver\Crystal\Os2\English	Crystal installation software under OS/2 English
\Driver\Crystal\Win31\English	Crystal installation software under Win3.1 English
\Driver\Crystal\Win95\Chineset	Crystal installation software under Win95 Chinese T.
\Driver\Crystal\Win95\Danish	Crystal installation software under Win95 Danis
\Driver\Crystal\Win95\Dutch	Crystal installation software under Win95 Dutch
\Driver\Crystal\Win95\English	Crystal installation software under Win95 English
\Driver\Crystal\Win95\French	Crystal installation software under Win95 French
\Driver\Crystal\Win95\Koerean	Crystal installation Software under Win95 Koerean
\Driver\Crystal\Win95\German	Crystal installation software under Win95 German
\Driver\Crystal\Win95\Italian	Crystal installation software under Win95 Italian
\Driver\Crystal\Win95\Japanese	Crystal installation software under Win95 Japanese
\Driver\Crystal\Win95\Norwegian	Crystal installation software under Win95 Norwegian
\Driver\Crystal\Win95\Spanish	Crystal installation software under Win95 Spanish
\Driver\Crystal\Win95\Swedish	Crystal installation software under Win95 Swedish
\Driver\Crystal\WinNT\English	Crystal installation software under NT3.51/4.0 English
\Driver\Crystal\WinNT\French	Crystal installation software under NT3.51/4.0 French
\Driver\Crystal\WinNT\German	Crystal installation software under NT3.51/4.0 German
\Driver\Crystal\WinNT\Italian	Crystal installation software under NT3.51/4.0 Italian
\Driver\Crystal\WinNT\Japanese	Crystal installation software under NT3.51/4.0 Japanese
\Driver\Crystal\WinNT\Spanish	Crystal installation software under NT3.51/4.0 Spanish
\Driver\Ess\1868\Dos	ES1868 installation software under DOS
\Driver\Ess\1868\Nt351	ES1868 installation software under NT3.51
\Driver\Ess\1868\Nt40	ES1868 installation software under NT4.0
\Driver\Ess\1868\Os2	ES1868 installation software under OS/2
\Driver\Ess\1868\Win31	ES1868 installation software under Win3.1
\Driver\Ess\1868\Win95	ES1868 installation software under Win95
\Driver\Ess\1868\Swtable	Software wavetable driver for ES1868 under Win95
\Driver\Ess\1869\Nt40	ES1869 installation software under NT4.0
\Driver\Ess\1869\Os2	ES1869 installation software under OS/2
\Driver\Ess\1869\Win31	ES1869 installation software under Win3.1
\Driver\Ess\1869\Win95	ES1869 installation software under Win95
\Driver\Ess\1869\Swtable	Software wavetable driver for ES1869 under Win95

\Driver\Essmodem\Es336isp\Win95	ES336ISP modem installation software under Win95
\Driver\Fmradio\win31	FM RADIO installion software under Win3.1
\Driver\Fmradio\win95	FM RADIO installion software under Win95
\Driver\PCISOUND\SC970\Win95	SC970 installation software in English under Win95
\Driver\PCISOUND\SC972\Win31\English	SC972 installation software in English under Win3.1
\Driver\PCISOUND\SC972\Win95\Dutch	SC972 installation software in Dutch under Win95
\Driver\PCISOUND\SC972\Win95\English	SC972 installation software in English under Win95
\Driver\PCISOUND\SC972\Win95\French	SC972 installation software in French under Win95
\Driver\PCISOUND\SC972\Win95\German	SC972 installation software in German under Win95
\Driver\PCISOUND\SC972\Win95\Italian	SC972 installation software in Italian under Win95
\Driver\PCISOUND\SC972\Win95\Japanese	SC972 installation software in Japanese under Win95
\Driver\PCISOUND\SC972\Win95\Spanish	SC972 installation software in Spanish under Win95
\Driver\PCISOUND\SC972\Win95\Swedish	SC972 installation software in Swedish under in95
\Driver\PCISOUND\SC972\NT40\English	SC972 installation software in English under T4.0
\Games\Dos\Bs	Blake Stone; shareware DOS game
\Games\Dos\Dj	Dynamite Joe; shareware DOS game
\Games\Dos\Is	Iko San; shareware DOS game
\Games\Dos\Ke	Krypton Egg; shareware DOS game
\Games\Dos\Raptor	Raptor; shareware DOS game
\Games\Win31	shareware Win3.1 games
\Games\Win95	shareware Win95 games
\Games\Win95\extreme	shareware Win95 games "Extreme Assault" disk 1 & 2

## 4. AT COMMAND SET

The AT commands can be used to send commands to your modem to control its behaviors through the any communication program like Hyperterminal built in Microsoft Windows 95.

To execute these AT commands, just type the command and press ENTER like  
AT[command] ENTER

### I. Basic AT Commands

Command Function

A/	Re-execute command.	
A	Go off-hook and attempt to answer a call.	
B0	Select V.22 connection at 1200 bit/s or V.21 at 300 bit/s.	
B1	Select Bell 212A connection at 1200 bit/s or Bell 103 at 300 bit/s	DEFAULT
C1	Return OK message.	
Dn	n: Dial modifier (originate a call)	
0~9	0 through 9 pulse or tone	
A~D	A,B,C,D, # and * Tone dial only - A~D may not be valid for some countries	
L	Re-dial last number	
P	Pulse dialing	
T	Touch-tone dialing	
W	Wait for second dial tone within the time specified by S7	
,	Pause, time determined by S8	
@	Wait for five seconds of silence	
&	Wait for the AT&T "Bong" tone for credit card dialing before continuing with the	dial string.
!	Flash-hook: Modem will go on-hook for a time defined by S29.	

; Return to Command Mode after dialing

NOTE "("), "-", ".", <Space> is ignored and may be used to format dialing string.

E0 Turn off command echo. Data is NOT returned while in the command mode.

E1 Turn on command echo. DEFAULT

H0 Initiate a hang-up sequence.

H1 If on-hook, go off-hook and enter command mode.

I0 Report 5 digit product code: i.e. 33600

I1 Return hardware variation code

I2 Report DSP firmware revision.

I3 Report controller firmware revision, model, and interface type.

I4 Report response programmed by an OEM (mfg. name).

L0 Speaker always off

L1 Speaker on per ATM command. DEFAULT

L2 Speaker on per ATM command.

L3 Speaker on per ATM command.

M0 Speaker is always OFF.

M1 Turn speaker on during handshaking and turn speaker off while receiving carrier. DEFAULT

M2 Turn speaker on during handshaking and while receiving carrier.

M3 Turn speaker off during dialing and receiving carrier and turn speaker on during answering.

N0 Turn OFF automode detection.

N1 Turn ON automode detection. DEFAULT

O0 Go on-line.

O1 Go on-line and initiate a long retrain sequence before returning to on-line data mode.

O2 Go on-line and initiate a short retrain sequence before returning to on-line data mode.

P Enable pulse dialing.

Q0 Send Result codes to DTE: DEFAULT

Q1 DO NOT send Result codes to DTE

Sn Select last S-Register to be accessed

Sn? Return the value of S-Register n.

Sn=v Set default S-Register to value v.

? Return the value of last S-Register to be accessed

T Enable DTMF (tone) dialing. DEFAULT

V0 Report short form (terse/numeric) result codes.

V1 Report long form (verbose/words) result codes. DEFAULT

W0 Report DTE speed only. DEFAULT

W1 Report line speed, EC protocol and DTE speed.

W2 Report DCE speed only

X0 Report basic call progress result codes, eg; OK, CONNECT, RING, NO CARRIER (busy and dial tone detect disabled), NO ANSWER and ERROR.

X1 Report basic call progress result codes and connections speeds, eg; OK, CONNECT, RING, NO CARRIER (busy and dial detect disabled), NO ANSWER, CONNECT XXXX, and ERROR.

X2 Report basic call progress result codes and connections speeds, eg; OK, CONNECT, RING, NO CARRIER (busy not detected), NO ANSWER, CONNECT XXXX, and ERROR.

X3 Report basic call progress result codes and connection rate, eg; OK, CONNECT, RING, NO CARRIER, NO ANSWER, CONNECT XXXX, BUSY, and ERROR.

X4 Report all call progress result codes and connection rate, eg; OK, CONNECT, RING, NO CARRIER, NO ANSWER, CONNECT XXXX, BUSY, NO DIAL TONE and ERROR. DEFAULT

Z0 Restore stored profile 0 after warm reset.

Z1 Restore stored profile 1 after warm reset.

## II. Extended AT Commands

### Command Function

&C0 Force RLSD (Carrier Detect) active regardless of the carrier state. DEFAULT

&C1 Allow RLSD (Carrier Detect) to follow the carrier state.

&D0 Ignore DTR (assumed ON). DEFAULT

&D1 DTR going from ON to OFF forces the modem to the command mode

&D2 DTR going from ON to OFF forces the modem to go on-hook (hang-up)

&F0 Restore factory configuration 0.

&F1 Restore factory configuration 1.  
 &J0 Auxiliary never operated DEFAULT  
 &K0 Disable DTE/DCE flow control.  
 &K3 Enable RTS/CTS DTE/DCE flow control. DEFAULT for data mode.  
 &K4 Enable XON/XOFF DTE/DCE flow control.  
 &K5 Enable transparent XON/XOFF flow control.  
 &K6 Enable both RTS/CTS and XON/XOFF flow control. DEFAULT for fax modem and voice modes.  
 &L0 Dummy command. Will accept and return OK.  
 &M0 Select direct asynchronous mode.  
 &P0 Set 10 pps pulse dial with 39%/61% make/break.  
 &P1 Set 10 pps pulse dial with 33%/67% make/break.  
 &P2 Set 20 pps pulse dial with 39%/61% make/break.  
 &P3 Set 20 pps pulse dial with 33%/67% make/break.  
 &Q0 Select direct asynchronous mode.  
 &S0 DSR is always active. DEFAULT  
 &T0 Terminate any test in progress.  
 &T1 Initiate local analog loopback.  
 &V Display current configurations. Profile 0,1 and stored telephone numbers.  
 &W0 Store the active profile in NVRAM profile 0.  
 &W1 Store the active profile in NVRAM profile 1.  
 &W2 Store the active profile in NVRAM profile 2.  
 &Y0 Recall stored profile 0 upon power up.  
 &Y1 Recall stored profile 1 upon power up.  
 &Zn=x Store dial string x (to 45) to location n (0 to 3).  
 %E0 Disable line quality monitor and auto retrain. DEFAULT  
 %E1 Enable line quality monitor and auto retrain.

### III. Error Control & Data Compression Commands

#### Command Function

%C0 Disable data compression.  
 %C1 Enable MNP 5 data compression.  
 %C2 Enable V.42bis data compression.  
 %C3 Enable both V.42bis and MNP 5 compression. DEFAULT  
 \A0 Set maximum block size in MNP to 64. DEFAULT  
 \A1 Set maximum block size in MNP to 128.  
 \A2 Set maximum block size in MNP to 192.  
 \A3 Set maximum block size in MNP to 256.  
 \Bn Send break of n x 100 ms in non-error correction mode.  
 \G0 Disable modem-to-modem XON/XOFF flow control  
 \G1 Enables modem-to-modem XON/XOFF flow control  
 \Kn Controls break handling during three states:  
 When modem receives a BREAK from the DTE:  
 \K0,2,4 Enter on-line command mode, no break sent to the remote modem.  
 \K1 Clear buffers and send break to remote modem.  
 \K3 Send break to remote modem immediately.  
 \K5 Send break to remote modem in sequence with transmitted data. DEFAULT  
 When local modem sends BREAK during normal mode:  
 \K0,1 Clear buffers and send break to remote modem.  
 \K2,3 Send break to remote modem immediately.  
 \K4,5 Send break to remote modem in sequence with transmitted data. DEFAULT  
 When modem receives BREAK from the remote modem:  
 \K0,1 Clear data buffers and send break to DTE.  
 \K2,3 Send a break immediately to DTE.  
 \K4,5 Send a break with received data to the DTE. DEFAULT  
 \Ln MNP block transfer control  
 \L0 Initiates stream link DEFAULT  
 \L1 Use interactive block mode for MNP connection.  
 \Nn Error Correcting Operating Mode.

\N0 Select normal speed buffered mode and disable error correction mode.  
 \N1 Select direct mode - no buffered data. DTE/DCE speed must match.  
 \N2 Select reliable link mode ONLY.  
 \N3 Select auto reliable mode with fallback to Normal mode. DEFAULT  
 \N4 LAPM (V.42) mode.  
 \N5 Force MNP mode.

#### IV. Voice Commands

Commands	Function	
# MDL?	Identify model.	
# MFR?	Identify manufacturer.	
# REV?	Identify revision level.	
# VCID	Enable Caller ID detection and select reporting format	
+ VDR	Distinctive ring	
+ VEM?	Causes the DCE to enable or disable reporting of the ring cadence	informatio
n		
+ VGR	Causes the DCE to set the gain for the received voice samples	
+ VGT	Causes the DCE to set the volume level, either by amplifying or	attenuating th
e signal, for	the transmitted voice samples	
+ VIP	Initialize Voice Parameters. Used to reset all voice parameters.	
# VLS	Causes the DCE to select one or more source/destinations of the analog data	
+ VLS	Causes the DCE to select one or more source/destinations of the analog data	
+ VNH	Set hook control - Automatic hang-up	
+ VRX	Enables the DCE to start the voice reception process (ADPCM or PCM)	
# VRX	Enables the DCE to start the voice reception process (ADPCM or PCM)	
+ VSD	Enable silence deletion (Voice receive, ADPCM)	
+ VSP	AEC/Speaker Phone Control	
+ VTD	Set tone duration	
+ VTS	Generate tone signals while in voice mode.	
# VTS	Generate tone signals while in voice mode.	
+ VTX	Enables the DCE to start the voice transmission process	
# VTX	Enables the DCE to start the voice transmission process	

#### V. FAX Class 1 Commands

Command	Function
+FCLASS=n	Service class.
+FDD	Double Escape character replacement control
+FLO	Select Flow Control
+FMI?	Request Manufacture Identification
+FMM?	Request Model Identification
+FMR?	Request Revision Identification
+FRH=n	Receive data with HDLC framing at rate per "=n" (2400~14400 bit/s)
+FRM=n	Receive data at rate per "=n" (2400~14400 bit/s).
+FRS=n	Wait for silence (10ms intervals 0~255)
+FTH=n	Transmit data with HDLC framing at rate per "=n" (2400~14400 bit/s).
+FTM=n	Transmit data at rate per "=n" (2400~14400 bit/s).
+FTS=n	Stop transmission and wait (10ms intervals 0~255)

#### VI. FAX Class 2 Commands

Command	Function
+FCLASS=n	Service class.
+FDT	Data transmission
+FET=n	Transmit Page Punctuation
+FDR	Begin or continue Phase C receive data
+FK	Session transmission
Class 2 DCE Responses	
+FCON=n	Facsimile connection response
+FDCS:	Report current session

+FDIS: Report remote identification  
 +FCFR: Indicate confirmation to receive  
 +FTSI: Report the transmit station ID  
 +FCSI: Report the called station ID  
 +FPTS: Page transfer status  
 +FET: Post page message response  
 +FHNG Call termination with status  
     Class 2 session Parameters  
 +FMFR? Identify manufacturer  
 +FMDL? Identify model  
 +FREV? Identify revision  
 +FDCC= DEC capability parameters  
 +FDIS= Current sessions parameters  
 +FDCS= Current session results  
 +FLID= Local ID string  
 +FCR Capability  
 +FPTS= Page transfer status  
 +FCR= Capability to receive  
 +FPHCTO Phase C time out  
 +FAXERR Fax error value  
 +FBOR Phase C data bit order

## VII. S Registers

Reg.	Function	Range	Units	Saved	Default
S0	Rings to Auto-Answer	0-255	rings	4	0
S1	Ring Counter	0-255	rings	-	0
S2	Escape Character	0-255	ASCII	4	43 (+)
S3	Carriage Return Character	0-127	ASCII	4	13 (CR)
S4	Line Feed Character	0-127	ASCII	4	10 (LF)
S5	Backspace Character	0-255	ASCII	4	8 (BS)
S6	Wait Time for Dial Tone	2-255	s	4	2
S7	Wait Time for Carrier	1-255	s	4	50
S8	Pause Time for Dial Delay Modifier	0-255	s	4	2
S9	Carrier Detect Response Time	1-255	0.1 s	4	6
S10	Carrier Loss Disconnect Time	1-255	0.1 s	4	10
S11	DTMF Tone Duration	50-255	0.001 s	4	95
S12	Escape Prompt Delay	0-255	0.02 s	4	50
S13	Reserved	-	-	-	-
S14	General Bit Mapped Options Status	-	-	4	138 (8Ah)
S15	Reserved	-	-	-	-
S16	Test Mode Bit Mapped Options Status (&T)	-	-	-	0
S17	Reserved	-	-	-	-
S21	V.24/General Bit Mapped Options Status	-	-	4	52 (34h)
S22	Speaker/Results Bit Mapped Options Status	-	-	4	117 (75h)
S23	General Bit Mapped Options Status	-	-	4	62 (3Dh)
S24	Reserved	-	-	-	-
S27	General Bit Mapped Options Status	-	-	4	73 (49h)
S28	General Bit-Mapped Options Status	-	-	4	0
S31	General Bit-Mapped Options Status	-	-	4	194 (C2h)
S32	XON Character	0-255	ASCII	-	17 (11h)
S33	XOFF Character	0-255	ASCII	-	19 (13h)
S34-S35	Reserved	-	-	-	-
S40	General Bit-Mapped Options Status	-	-	4	104 (68h)
S41	General Bit-Mapped Options Status	-	-	4	195 (C3h)
S42-S45	Reserved	-	-	-	-
S46	Data Compression Control	-	-	4	138
S86	Call Failure Reason Code	0-255	-	-	-
S87~S99	Reserved	-	-	-	-



## 5. ES1868/1869 SOFTWARE WAVETABLE DRIVER INSTALLATION

### 5.1 ES1868 Software wavetable driver installation

This driver is only for **windows 95 OSR2** version or above. You have better use Pentium or above system.

--Installation--

1. Please the follow the steps for remove old ES1868 driver first
  - a. Remove all the ESS items in "Sound, Video and game controllers" under My Computer -> Control Panel -> System -> Device Manager.
  - b. Deletee the "essoemsetup.inf" under <Windows95 root>\system\inf\other.  
(**Note:** inf is hidden sub-directory, please display it first.(see your Windows 95 User Guide))
  - c. Deletee all the "ES\*.\*" files under <Windows95 root>\system.
2. Restart Windows 95 OSR2.
3. When Update Device Wizard pops up and announces "This Wizard will complete the installation of ESS ES1868 Plug and Play AudioDrive." Follow the instruction on the screen and use the files under **D:\DRIVER\ESS\1868\SWTABLE** to install ES1868 again.  
(Use "Other Locations" button to install manually)
4. After successful installation, you can see new adding "Internal ESS software wavetable" item under My Computer -> Control Panel -> Multimedia -> MIDI.  
Choose it! You can play midi by wavetable effect!

### 5.2 ES1869 Software wavetable driver installation

This driver is only for **windows 95 OSR2** version or above. You have better use Pentium or above system.

--Installation--

1. Please the follow the steps for remove old ES1869 driver first
  - a. Remove all the ESS items in "Sound, Video and game controllers" under *My Computer -> Control Panel -> System -> Device Manager.*
  - b. Deletee the "essoemsetup.inf" under <Windows95 root>\system\inf\other.  
(**Note:** inf is hidden sub-directory, please display it first.(see your Windows 95 User Guide))
  - c. Deletee all the "ES\*.\*" files under <Windows95 root>\system.
2. Restart Windows 95 OSR2.
3. When Update Device Wizard pops up and announces "This Wizard will complete the installation of ESS ES1869 Plug and Play AudioDrive." Please follow the process of "Installing the Sound Card Software with Windows 95 OSR2" on manual to install.  
But locate driver to **D:\DRIVER\ESS\1869\SWTABLE**
4. After successful installation, you can see new adding "Internal ESS software wavetable" item under *My Computer -> Control Panel -> Multimedia -> MIDI.*  
Choose it! You can play midi by wavetable effect!