

Tracer 2000 Digital Video Recorder

User's Manual



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CHAPTER I

INTRODUCTION

Thank you for purchasing Tracer 2000 DVR; this manual will guide you through the setup, installation, and use of all our DVR systems.

Before proceeding, please read this manual thoroughly!

If you have any questions or concerns that cannot be solved by following this manual, please visit our web site at <http://www.giantec.net>

LIMITED WARRANTY

Giantec Inc. warrants this product to be in compliance with its own plans and specifications. Moreover, to be free from defects in materials and workmanship under normal use and service for all parts (1) one year after the original purchase date. During this period Giantec Inc. will replace parts at no charge, however, labor cost will be laid after one (1) year. Please contact your dealer/distributor for details.

This warranty excludes damages due to misuse or neglect. Also this warranty does not cover damages beyond DVR's control. In no event shall Giantec Inc. be liable for any direct, indirect or consequential damages; loss of anticipated profits, loss of time or any other losses incurred by the buyer in connection with the purchase, installation, operation or failure of this product. For more details on the limitation of this warranty, contact your distributor.

FUNCTION INTRODUCTION

Thank you for using TRACER 2000 video surveillance system. TRACER can be used to transfer captured video signal from analog to digital using the compression format for record and play. They can also capture videos of up to 4 / 8 /16 cameras for model TRACER-2404, TRACER-2408, and TRACER-2416(4 /8/16 BNC inputs) with 4 audio sources at the same time. The built-in video player makes it easy to play back captured video files. The system also provides several control modes like motion detection, schedule record, P/T/Z control and remote surveillance applications.

FEATURE

The TRACER2000 comes with the following hardware devices:

Control panel with IR receiver

One 10/100Mbps RJ-45 Ethernet Port

One RS 232 and one RS232/422/485 selectable interface

One VGA Connector

One speaker out

Two USB Ports

Two 3.5" HDD Supported

Four Audio-in Ports

Eight GPIO Ports

Remote Commander

Working temperature: 0 ~ 45 °C

Storage temperature: -10 ~ 65 °C

Relative humidity: Maximum 85%, non-condensing

Power requirement: AC 100 ~ 240V, 50 / 60 Hz, 150W maximum

Dimension: 265 mm (D) x 321mm (W) x 103mm (H)

Weight: 5Kg

CHAPTER II

PACKAGE

Packing List

Check the accessories accompany with the system you purchase as listed below.
With newer package release, the accessories are compacted into an accessory box.
Please check the items and Contact to your dealer you bought from if any of them is missing

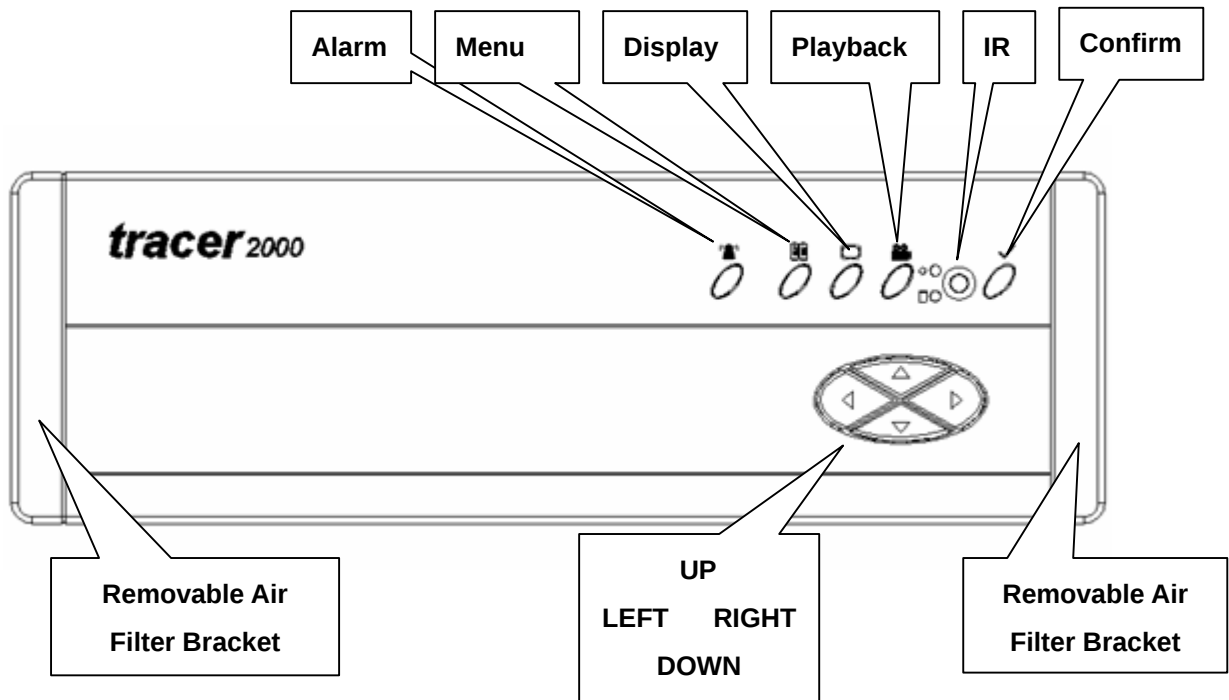
- TRACER2000 System
- Power Cord
- Screws Pack
- Remote Commander
- Battery (AAA) X 2
- User's Manual
- Installation CD-ROM

Please keep the packaging materials. You may need them for the use of further service.

CHAPTER III

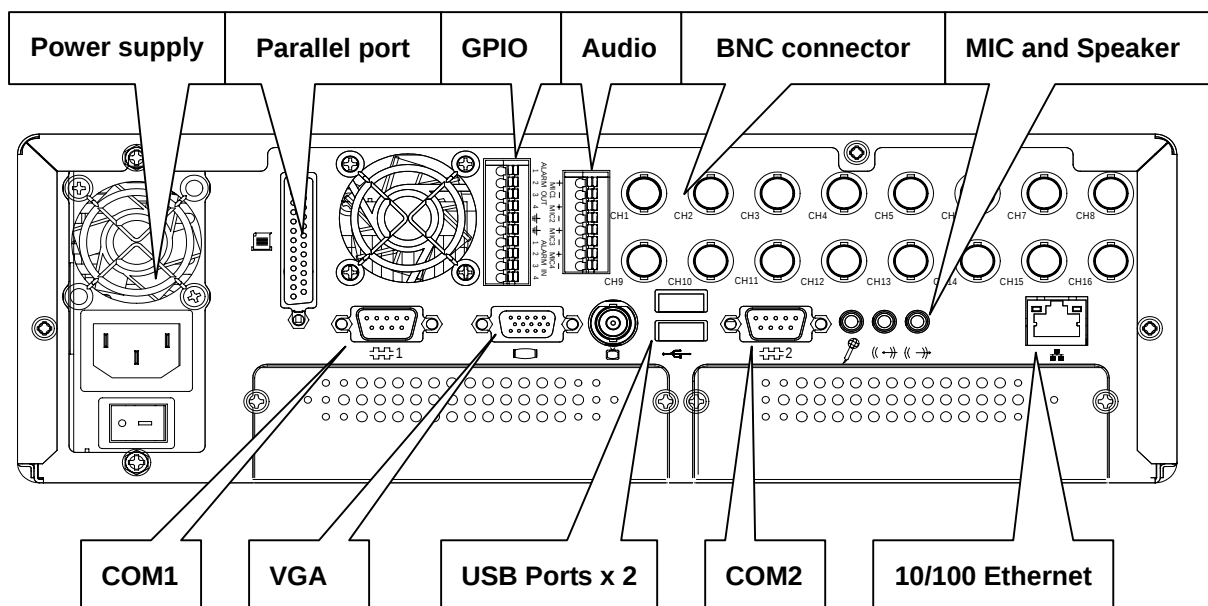
INSTALLATION

FRONT PANEL VIEW



Remove and clean up Air Filters monthly is essential.

REAR PANEL VIEW



1 INDICATOR

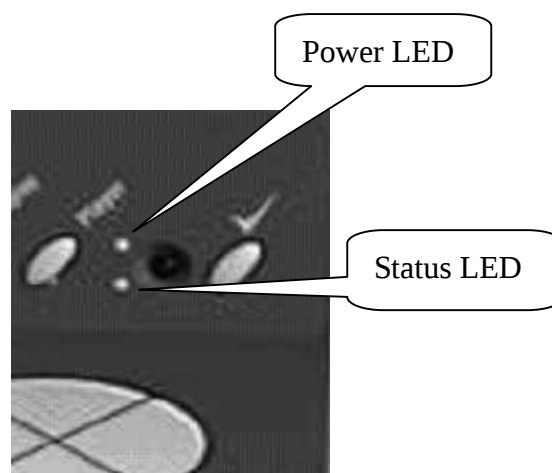
Power LED: Green light shows power is on.

Status LED: Green light continuous on means working properly.

Green light blinking shows status of recording

Red light continuous on means no signal (This may implies HDD damaged, No Power, or Access Error.)

Red light blinking shows status of recycling. (HDD space less than 1 Gigabyte)



2 CABLE CONNECTION

Following is the basic device must be prepared before to start installation complete system.

1. Tracer 2000
2. CCD cameras
3. VGA monitor

Please follow the procedure to connect the cable.

2.1. Connect VGA Monitor



2.2. Connect Camera Cable to BNC connector



2.3. Connect to LAN connector: Plug RJ-45 connector to LAN Port

2.5.1 Insert RJ-45 cable to network LAN socket on the rear.

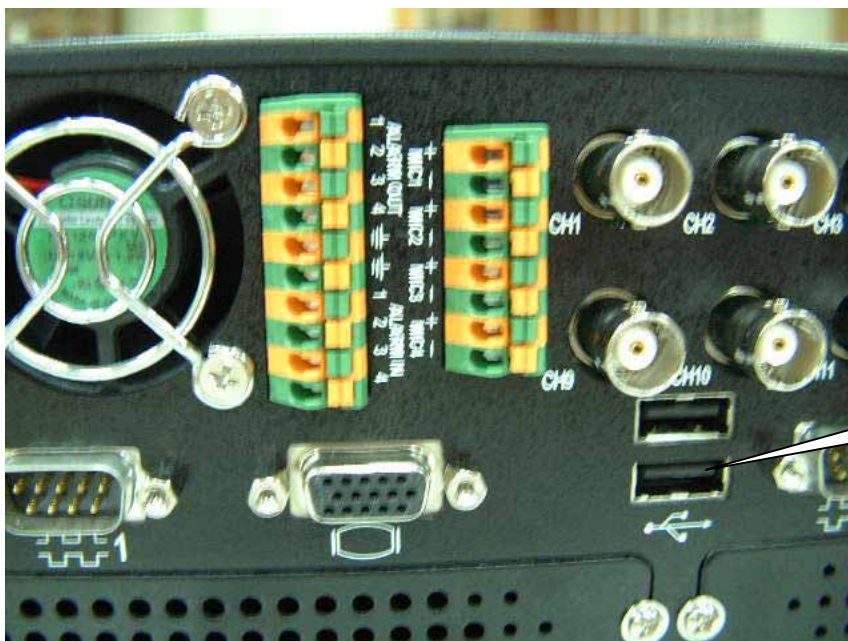
2.5.2 Connect Serial port modem to serial connector (COM1) and through Dial-in function to connect to Internet.



2.4. Connect to Printer Port (option)

There are two types of Printer port. One is LPT the other is USB.

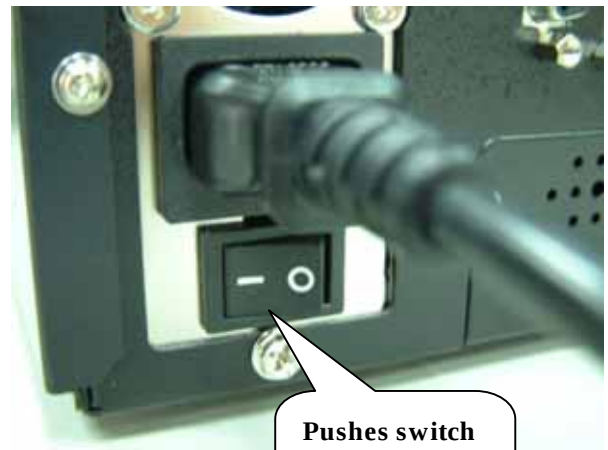
Connect Port as show below:



3. POWER CONNECTOR

3.1. Connect power cord (110V~240V auto switch) into the power socket.

Press “I” to start up system...

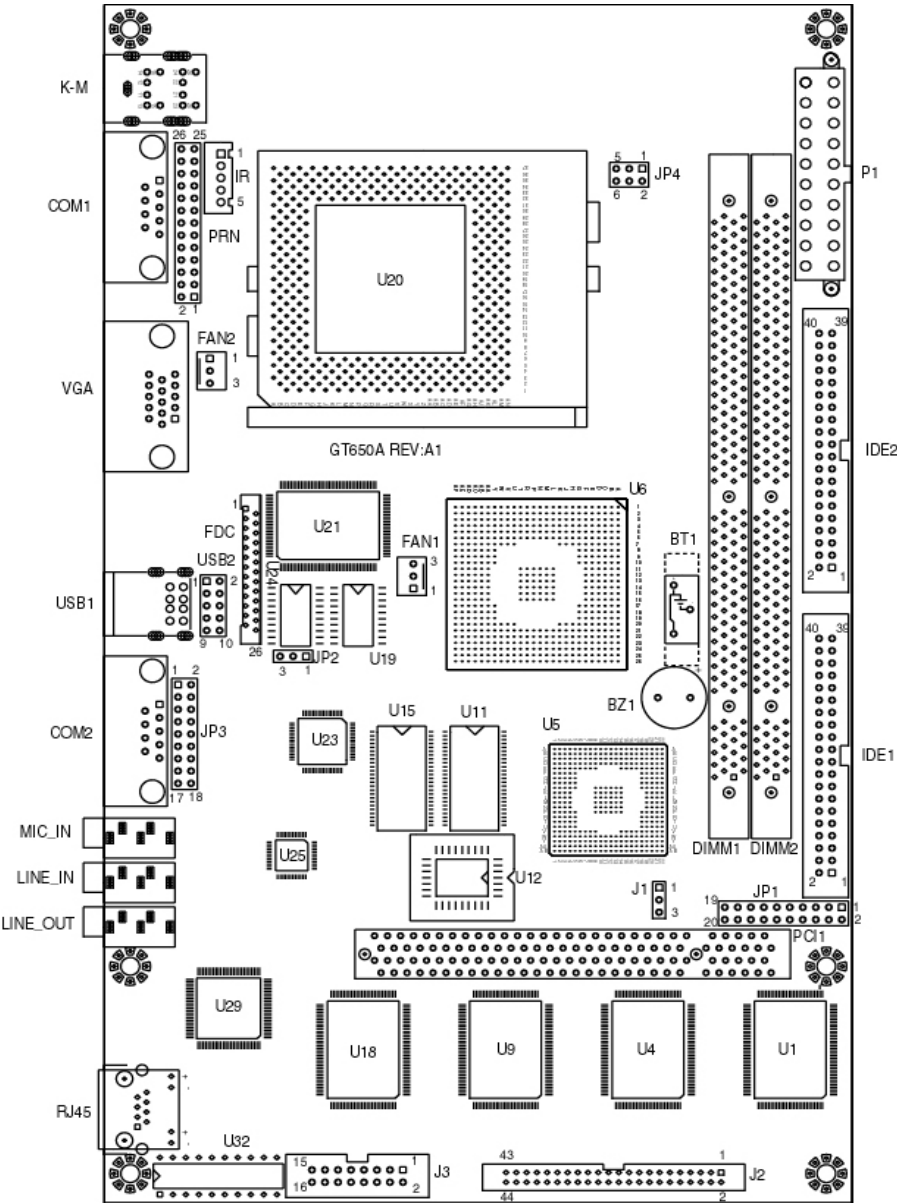


Pushes switch
“I” to turn it
on.

CHAPTER IV

Pin assignment

Internal Jumpers and Connectors



Power Switch for ATX power supply (JP1)

Signals	JP1
Power ON/OFF	1-3

Reset/LED/Speaker (JP1)

Signals	JP1
Power LED, Pin 9+, Pin10-	9-10
External speaker	14-20
HDD LED, Pin8+, Pin7-	7-8
System reset switch	5-6
SUSLED Pin4+, Pin2-	2-4

PS. For the AT system (short pin 10 & pin12) for power on

Internal USB connector (USB2)

Signals	USB2-1	USB2-2
Power	1	10
Data -	3	8
Data +	5	6
USB GND	7	4
CHS GND	9	2

Power connector (P1)

Signals	P1
+12V	10
+5V	4,6,19,20
-12V	12
-5V	18
+3.3V	1,2,11
5VSB	9
PS-ON	14
POWER-OK	8
Ground	3,5,7,13,15,16,17

CMOS Clear (J1)

J1
POWER OFF and Move jumper from pin 1-2 to pin2-3 of J1, Reminding POWER OFF 1minute. Then Move JUMPER back to 1-2 OF J1

COM2 mode Select (JP3)

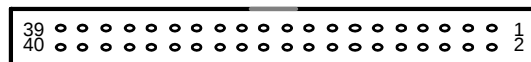
Mode	JP3
RS-232	3-5, 4-6, 9-11, 10-12, 17-18
RS-422	1-3, 2-4, 7-9, 8-10, 15-16
RS-485	1-3, 2-4, 7-9, 8-10, 13-14

CPU FSB Select (JP4)

Function	JP4
Auto by CPU	1-3, 2-4
66 MHz	3-5, 4-6

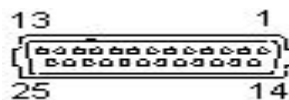
FAN control (FAN1, 2)

Function	FAN1,2
Sense	3
+12V	2
PWM control	1

HDD Connector (IDE1, 2)

Pin no.	Signal	Pin no.	Signal
1	- RST	2	GND
3	D7	4	D8
5	D6	6	D9
7	D5	8	D10
9	D4	10	D11
11	D3	12	D12
13	D2	14	D13
15	D1	16	D14
17	D0	18	D15
19	GND	20	N.C.
21	N.C.	22	GND
23	IOW	24	GND
25	IOR	26	GND
27	IORDY	28	GND
29	DACK	30	GND
31	IRQ	32	N.C.
33	A1	34	PDIAG
35	A0	36	A2
37	CS0	38	CS1
39	-ACT	40	GND

Parallel/Printer connector (PRN)



Pin no.	Signal	Pin no.	Signal
1	Strobe	10	-Acknowledge
2	Data 0	11	Busy
3	Data 1	12	Paper Empty
4	Data 2	13	+ Select
5	Data 3	14	- Auto Feed
6	Data 4	15	- Error
7	Data 5	16	- INIT Printer
8	Data 6	17	- Select Input
9	Data 7	18-25	Ground

Video Input (J2)

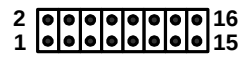


Pin no.	signals	Pin no.	signals
1	VCC	2	V-I-OE00
3	GND	4	V-I-OE01
5	VIN00	6	V-I-OE02
7	VIN01	8	V-I-OE03
9	VIN02	10	AGND
11	VIN03	12	V-I-OE30
13	AGND	14	V-I-OE31
15	VIN30	16	V-I-OE32
17	VIN31	18	V-I-OE33
19	VIN32	20	AGND
21	VIN33	22	V-I-OE20
23	AGND	24	V-I-OE21
25	VIN20	26	V-I-OE22
27	VIN21	28	V-I-OE23
29	AGND	30	AGND
31	VIN22	32	V-I-OE10
33	VIN23	34	V-I-OE11
35	AGND	36	V-I-OE12
37	VIN10	38	V-I-OE13
39	VIN11	40	AGND
41	VIN12	42	GND
43	VIN13	44	VCC

Note: VIN xx is analog video input channel xx.

V-I-OExx is Odd / Even field information of video input channel xx.

General Purpose Input / Output (J3)



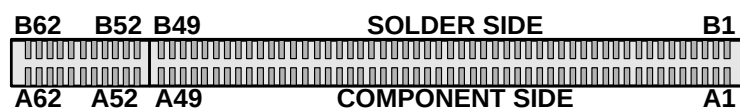
Pin no.	signals	Pin no.	signals
1	GPIO-0	2	Audio IN3
3	GPIO-1	4	AGND
5	GPIO-2	6	Audio IN2
7	GPIO-3	8	AGND
9	GPIO-4	10	Audio IN1
11	GPIO-5	12	AGND
13	GPIO-6	14	Audio IN0
15	GPIO-7	16	GND(for GPIO)

Infra-Red (IR)



Pin no.	signals		
1	VCC		
2	IRRX		
3	GND		
4	IRTX		
5	CIRRX		

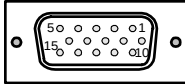
PCI bus pin assignment



Pin no.	A	B	Pin no.	A	B
1	TRST*	-12V	32	AD16	AD17
2	+12V	TCK	33	VCC3	C/BE2*
3	NC	GND	34	FRAME*	GND
4	NC	NC	35	GND	IRDY*
5	+5V	+5V	36	TRDY*	VCC3
6	INTA*	+5V	37	GND	DEVSEL*
7	INTC*	INTB*	38	STOP*	GND
8	+5V	INTD*	39	VCC3	LOCK*
9	NC	PREN1*	40	SDONE	PERR*
10	+5V	NC	41	SBO*	VCC3
11	NC	PREN2*	42	GND	SERR*
12	GND	GND	43	PAR	VCC3
13	GND	GND	44	AD15	C/BE1*
14	3VSB	NC	45	VCC3	AD14
15	RST*	GND	46	AD13	GND
16	+5V	CLK	47	AD11	AD12
17	GNT0*	GND	48	GND	AD10
18	GND	REQ0*	49	AD9	GND
19	PME*	+5V	50	KEY	KEY
20	AD30	AD31	51	KEY	KEY
21	VCC3	AD29	52	C/BE0*	AD8
22	AD28	GND	53	VCC3	AD7
23	AD26	AD27	54	AD6	VCC3
24	GND	AD25	55	AD4	AD5
25	AD24	VCC3	56	GND	AD3
26	AD16	C/BE3*	57	AD2	GND
27	VCC3	AD23	58	AD0	AD1
28	AD22	GND	59	+5V	+5V
29	AD20	AD21	60	REQ64*	ACK64*
30	GND	AD19	61	+5V	+5V
31	AD18	VCC3	62	+5V	+5V

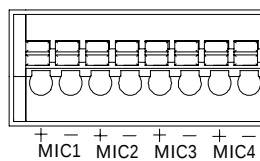
External Connector

CRT Display Connector (VGA)

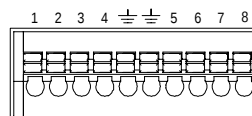


Pin no.	Signal	Pin no.	Signal
1	RED	9	N/C
2	GREEN	10	GND
3	BLUE	11	N/C
4	N/C	12	N/C
5	GND	13	H-SYNC
6	GND	14	V-SYNC
7	GND	15	N/C
8	GND		

Audio Input connector:

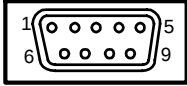


GPIO connector:

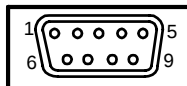


USB connector:

USB Ports		Pin no. of Connector-B
Pin	Name	Pin
2	USB0 +	6
3	USB0 -	14
4,8	GND	16
1,5	USB power	8
6	USB1 +	7
7	USB1 -	15

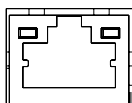
COM 1 Connector**RS-232 Connector (COM1)**

Pin no.	Signals
1	DCD
2	RX
3	TX
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI

COM2 Connector**RS-232/RS-422/RS-485 Connector (COM2) (Please setup mode type by JP3)**

Pin no.	RS-232	RS-422	RS-485
1	DCD	TX-	DATA-
2	RX	TX+	DATA+
3	TX	RX+	
4	DTR	RX-	
5	GND	GND	GND
6	DSR	RTS +	
7	RTS	RTS -	
8	CTS	CTS +	
9	RI	CTS -	

Ethernet connector (RJ-45)



Drawing of Ethernet connector RJ-45

Pin no.	signals		
1	TX+		
2	TX-		
3	RX+		
4	NC		
5	NC		
6	RX-		
7	NC		
8	NC		

Connectors

The connectors allow this main board to connect with other parts of the system. Some problems encountered with your system may be caused by loose or improper connections. Ensure that all connectors are in place and firmly attached.

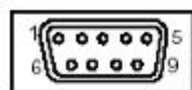
Component	Label
HDD (IDE) connector	IDE 1,IDE2
Slim FDD connector	FDC
Internal USB connector	USB2
Reset switch connector	JP1 (6-5)
External speaker connector	JP1 (14-20)
HDD LED connector	JP1 (7-8)
External power connector	P1
Serial Port	COM1,2
Audio OUT	LINE_OUT
Audio IN	LINE_IN
MIC	MIC_IN
CD IN	CD_IN
LAN	RJ-45
Video INPUT	J2
CMOS RAM clear	J1
Audio/GPIO	J3
IR	IR
CPU FAN	FAN1,2
Printer	PRN

P/T/Z Setting

The P/T/Z Setting complies with LILIN or PELCO. Protocol has been previously attached to the COM ports. You may control the camera via arrow buttons. In this case, you don't need to buy dedicated P/T/Z controller.

Pin assignment of COM2 :

Connect 9 PIN Female D_SUB to COM2 (Pin defines as below)



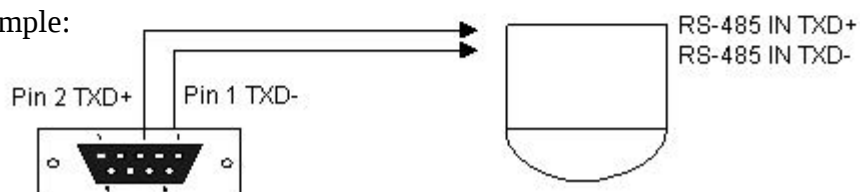
COM2

RS-232/RS-422/RS-485 Connector (COM2) (Please setup mode type by JP3)

Pin no.	RS-232	RS-422	RS-485
1	DCD	TX-	DATA-
2	RX	TX+	DATA+
3	TX	RX+	
4	DTR	RX-	
5	GND	GND	GND
6	DSR	RTS +	
7	RTS	RTS -	
8	CTS	CTS +	
9	RI	CTS -	

Cable connection : Camera Input jack to COM2 for PIH-7000/7600 :

For example:

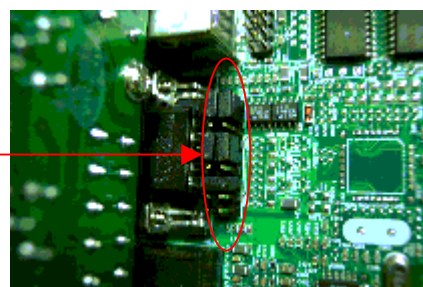
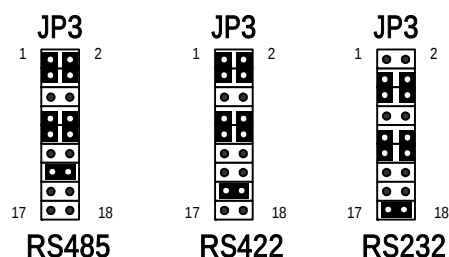


Jumper setting of COM2 :

The system default of COM2 is RS-485. Adjust Jumper JP3 in system for RS-422, RS-232 signals as shown below.

COM2 mode Select (JP3)

Mode	JP3
RS-232	3-5, 4-6, 9-11, 10-12, 17-18
RS-422	1-3, 2-4, 7-9, 8-10, 15-16
RS-485	1-3, 2-4, 7-9, 8-10, 13-14



CHAPTER V**CMOS SETTING****Introduction**

This manual discusses Award™ Setup program built into the ROM BIOS. The Setup program allows users to modify the basic system configuration. This special information is then stored in battery-backed RAM so that it retains the Setup information when the power is turned off.

If system behaviors abnormal situation and you wish to check hardware values of CMOS...you may connect a USB keyboard, restart the system by turning it OFF then ON or pressing the "RESET" button on the system case. You may also restart by simultaneously pressing <Ctrl>, <Alt>, and <Delete> keys. Press key to enter CMOS setting pages.

Setup Pages

CMOS Setup Utility - Copyright (C) 1984-1998

Standard CMOS Feature	Frequency/Voltage Control
Advanced BIOS Feature	Load Fail-Safe Defaults
Advanced Chipset Feature	Load Optimized Defaults
Integrated Peripherals	Set Supervisor Password
Power Management Setup	Set User Password
PnP/PCI Configurations	Save & Exit Setup
PC Health Status	Exit Without Saving
Esc : Quit F9 : Menu in BIOS ↑ ↓ ← → : Select Item	
F10 : Save & Exit Setup	
Time, Date, Hard Disk Type...	

1. Standard CMOS Features

Use this menu for basic system configuration.

Date: Mon., Feb 8 1999 Time: 16:19:20 IDE Primary 2557 MB Master None IDE Primary None Slave None IDE Secondary Master None IDE Secondary None Slave EGA/VGA Drive A No Errors Driver B 640 K Video 64512 K Halt On 65536 K Based Memory Extended Memory Total Memory	Item Help Menu Level ➤ Change the day, month, year and century
↑↓←→Move Enter: Select +/-/PU/PD: Value F10:Save ESC: Exit F1:General Help F5:Previous Values F6:Fail-safe defaults F7:Optimized Defaults	

2. Advanced BIOS Features

Use this menu to set the Advanced Features available on your system.

CMOS Setup Utility – Copyright © 1984 – 1998 Award Software
Advanced BIOS Features

Virus Warning Disabled CPU Internal Cache Enabled External Cache Enabled CPU L2 Cache ECC Checking Enabled Quick Power On Self Test Disabled First Boot device HDD-0 Second Boot device HDD-1 Third Boot device CDROM Boot other device Enabled Boot Up NumLock Status On Gate A20 Option Fast Typematic Rate Setting Disabled xTypematic Rate (Chars/Sec) 6 xTypematic Delay (Msec) 250 Security Option Setup OS Select For DRAM > 64MB Non-OS2 Report NO FDD For Win 95 Yes	Item Help Menu Level ➤ Allows you to choose the VIRUS warning feature for IDE Hard Disk boot sector protection. If this function is enabled and someone attempt to write data into this area, BIOS will show a warning message on screen and alarm beep
↑↓←→Move Enter: Select +/-/PU/PD: Value F10:Save ESC: Exit F1:General Help F5:Previous Values F6:Fail-safe defaults F7:Optimized Defaults	

3. Advanced Chipset Features

Use this menu to change the values in the chipset registers and optimize your system's performance.

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Advanced BIOS Features

Virus Warning	Disabled	Item Help
CPU Internal Cache	Enabled	
External Cache	Enabled	
CPU L2 Cache ECC Checking	Enabled	
Quick Power On Self Test	Disabled	
First Boot device	HDD-0	
Second Boot device	HDD-1	
Third Boot device	CDROM	
Boot other device	Enabled	
Boot Up NumLock Status	On	
Gate A20 Option	Fast	
Typematic Rate Setting	Disabled	
xTypematic Rate (Chars/Sec)	6	
xTypematic Delay (Msec)	250	
Security Option	Setup	
OS Select For DRAM > 64MB	Non-OS2	
Report NO FDD For Win 95	Yes	
Menu Level ➤ Allows you to choose the VIRUS warning feature for IDE Hard Disk boot sector protection. If this function is enabled and someone attempt to write data into this area, BIOS will show a warning message on screen and alarm beep		
↑↓←→Move Enter: Select +/-/PU/PD: Value F10:Save ESC: Exit F1:General Help F5:Previous Values F6:Fail-safe defaults F7:Optimized Defaults		

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Advanced Chipset Features

SDRAM CAS Latency Time	3	Item Help
SDRAM Cycle Time Tras/Trc	7/9	
SDRAM RAS-to-CAS Delay	3	
SDRAM RAS Precharge Time	3	
System BIOS Cacheable	Disabled	
Video BIOS Cacheable	Disabled	
Memory Hole At 15M-16M	Disabled	
CPU Latency Timer	Enabled	
Delay Transaction	Enabled	
AGP Graphics Aperture Size	64MB	
Display Cache Frequency	100MHz	
System Memory Frequency	Auto	
On-Chip Video Window Size	64MB	
* Onboard Display Cache Setting *		
CAS# Latency	3	
Paging Mode Control	Open	
RAS-to-CAS Override	By CAS# LT	
RAS# Timing	Fast	
RAS# Precharge Timing	Fast	
Menu Level		
↑↓←→Move Enter: Select +/-/PU/PD: Value F10:Save ESC: Exit F1:General Help F5:Previous Values F6:Fail-safe defaults F7:Optimized Defaults		

4. Integrated Peripherals

Use this menu to specify your settings for integrated peripherals

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Integrated Peripherals

OnChip Primary PCI IDE	Enabled	Item Help
OnChip Secondary PCI IDE	Enabled	
IDE Primary Master PIO	Auto	
IDE Primary Slave PIO	Auto	Menu Level ➤ If your IDE hard drive supports block mode select Enabled for automatic detection of the optimal number of block read/write per sector the drive can support
IDE Secondary Master PIO	Auto	
IDE Secondary Slave PIO	Auto	
IDE Primary Master UDMA	Auto	
IDE Primary Slave UDMA	Auto	
IDE Secondary Master UDMA	Auto	
IDE Secondary Slave UDMA	Auto	
USB Controller	Enabled	
USB Keyboard Support	Enabled	
USB Mouse Support	Disabled	
Init Display	Onboard / AGP	
AC97 Audio	Auto	
IDE HDD Block Mode	Enabled	
POWER ON Function	BUTTON ONLY	
xKB Power ON Password	Enter	
xHot Key Power On	Ctrl-F1	
Onboard Serial Port 1	3F8/IRQ4	
Onboard Serial Port 2	2F8/IRQ3	
UART Mode Select	Normal	
xRxD , TxD Active	Hi, Lo	
xIR Transmission Delay	Enabled	
xUR2 Duplex Mode	Half	
xUse IR Pins	IR-Rx2Tx2	
Onboard Parallel Port	378/IRQ7	
Parallel Port Mode	SPP	
EPP Mode Select	EPP1.7	
ECP Mode Use DMA	3	
PWRON After PWR-Fail	Off	
Watch Dog Timer Select	Disable	
↑↓←→ Move Enter: Select +/-/PU/PD: Value F10:Save ESC: Exit F1:General Help F5:Previous Values F6:Fail-safe defaults F7:Optimized Defaults		

5. Power Management Setup

Use this menu to specify your settings for power management

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Power Management Setup

ACPI Function	Disabled	Item Help
ACPI Suspend Type	S1(POS)	
Power Management	User Define	
Video Off Method	DPMS	
Video off In Suspend	Yes	Menu Level ➤
Suspend Type	Stop Grant	
MODEM Use IRQ	3	
Suspend Mode	Disabled	
HDD Power Down	Disabled	
Soft-Off by PWR-BTTN	Instant-Off	
Wake-Up by PCI card	Disabled	
Power On By Ring	Enabled	
USB KB Wake-Up From S3	Disabled	
PWRON After PWR-Fail	Former-Sts	
CPU Thermal-Throttling	50.0%	
Resume by Alarm	Disabled	
X Date(of Month) Alarm	0	
X Time(hh:mm:ss) Alarm	0 0 0	
** Reload Global Timer Events **		
Primary IDE 0	Disabled	
Primary IDE 1	Disabled	
Secondary IDE 0	Disabled	
Secondary IDE 1	Disabled	
FDD, COM, LPT Port	Disabled	
PCI PIRQ [A-D]#	Disabled	
↑↓←→Move Enter: Select +/-/PU/PD: Value F10:Save ESC: Exit F1:General Help F5:Previous Values F6:Fail-safe defaults F7:Optimized Defaults		

6. PnP / PCI Configuration

This entry appears if your system supports PnP / PCI.

CMOS Setup Utility – Copyright © 1984-2000 Award Software
PnP/PCI Configurations

Reset Configuration Data	Disabled	Item Help
Resources Controlled By X IRQ Resources	Auto(ESCD) Press Enter	Menu Level ➤
PCI/VGA Palette Snoop	Disabled	Default is Disabled. Select Enabled to reset Extended System Configuration Data(ESCD) when you exit Setup if you have installed a new add-on and the system reconfiguration has caused such a serious conflict that the OS cannot boot
↑↓←→Move Enter: Select +/-/PU/PD: Value F10:Save ESC: Exit F1:General Help F5:Previous Values F6:Fail-safe defaults F7:Optimized Defaults		

7. PC Health Status

Use this menu to monitor the CPU and system temperature, CPU fan speed the voltage of the onboard regulators.

CMOS Setup Utility – Copyright © 1984-2000 Award Software PC Health Status

CPU Warning Temperature	Disabled	Item Help
Current System Temp.		Menu Level ➤
Current CPU1 Temperature		
IN0(V)		
IN1(V)		
IN2(V)		
+ 5 V		
VBAT(V)		
5VSB(V)	Disabled	
Shutdown temperature		
↑↓←→ Move Enter: Select +/-/PU/PD: Value F10:Save ESC: Exit F1:General Help F5:Previous Values F6:Fail-safe defaults F7:Optimized Defaults		

8. Frequency/Voltage Control

Use this menu to specify your settings for frequency/voltage control.

CMOS Setup Utility – Copyright © 1984-2000 Award Software Frequency/ Voltage Control

Auto Detect DIMM/PCI CLK	Enabled	Item Help
Spread Spectrum	Disabled	-----
		Menu Level ➤
↑↓←→ Move Enter: Select +/-/PU/PD: Value F10:Save ESC: Exit F1:General Help F5:Previous Values F6:Fail-safe defaults F7:Optimized Defaults		

9. Load Optimized Defaults

Use this menu to load the BIOS default values that are factory settings for optimal performance system operations. While Award has designed the custom BIOS to maximize performance, the factory has the right to change these defaults to meet their needs. .

Load Optimized Defaults (Y/N)? N

Pressing 'Y' loads the default values that are factory settings for optimal performance system operations.

10. Supervisor / User Password

Use this menu to set User and Supervisor Passwords.

11. Save & Exit Setup

Save CMOS value changes to CMOS and exit setup.

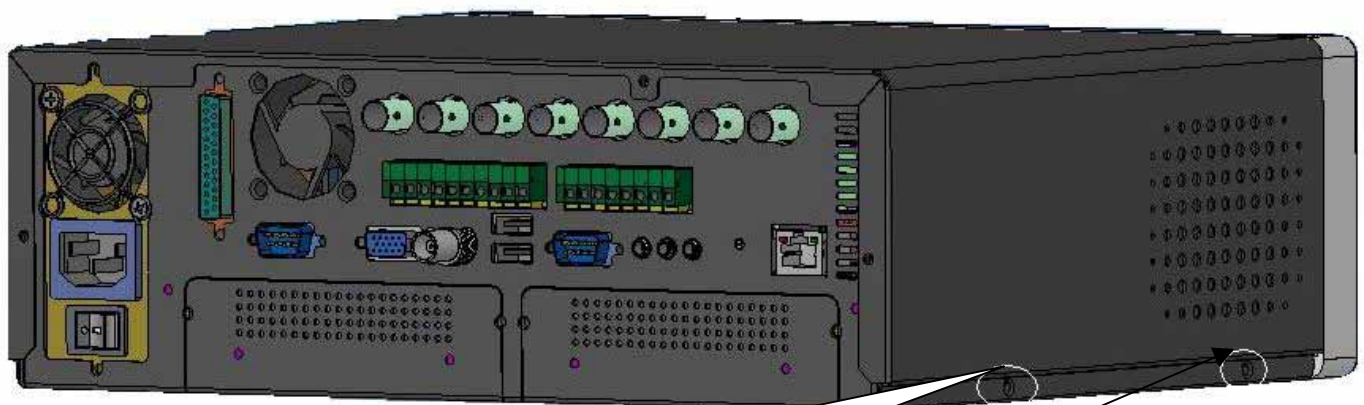
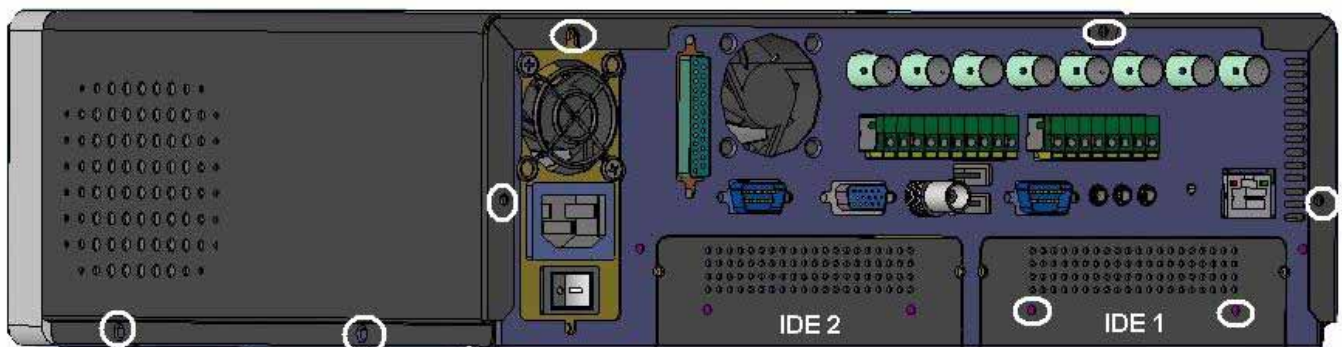
12. Exit Without Save

Abandon all CMOS value changes and exit setup. .

CHAPTER VI**System HDD Installation Guide**

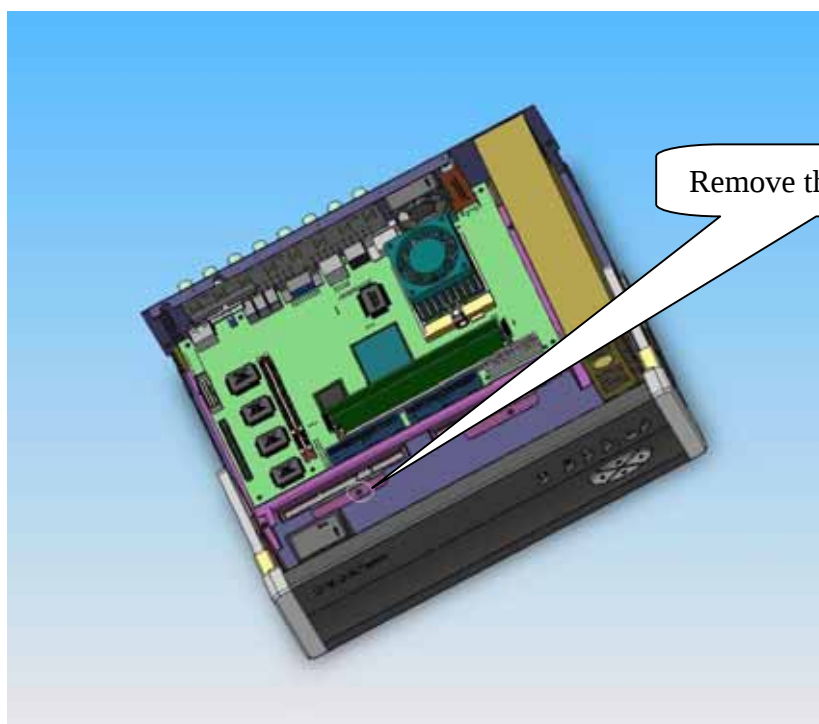
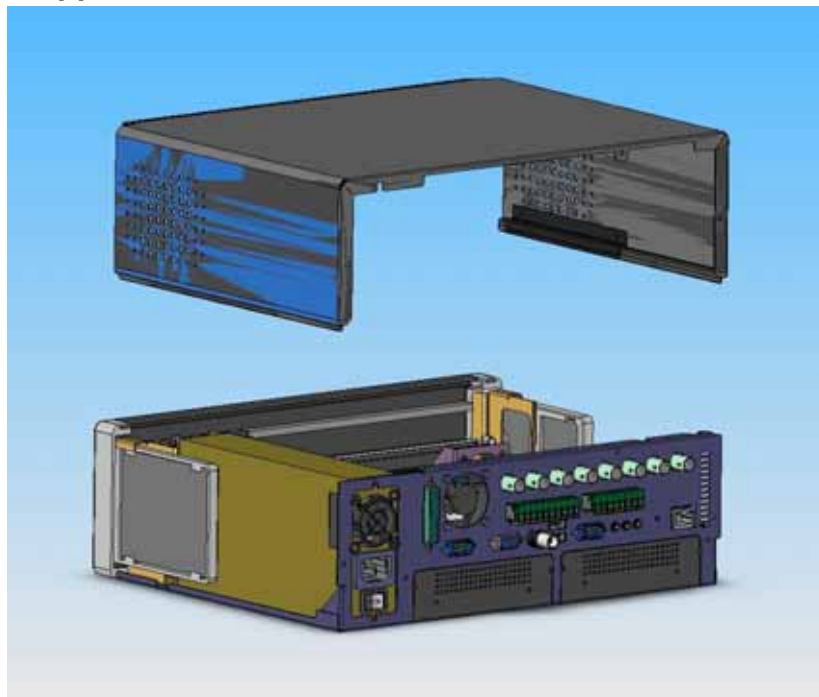
Follow the step to setup HDD drawing box.

1. Remove the screws on the case. (marked in white circles)

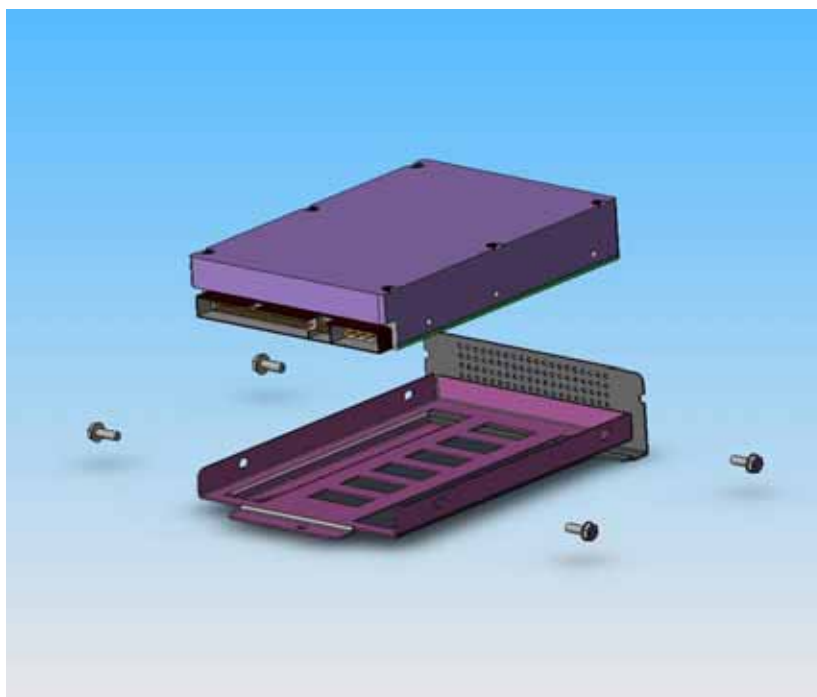
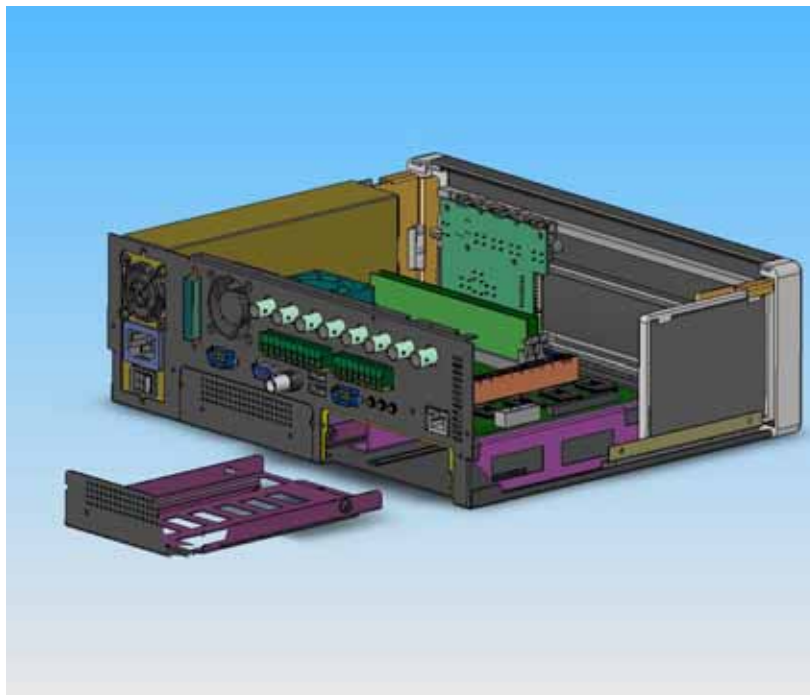


Remove the screws on the case.

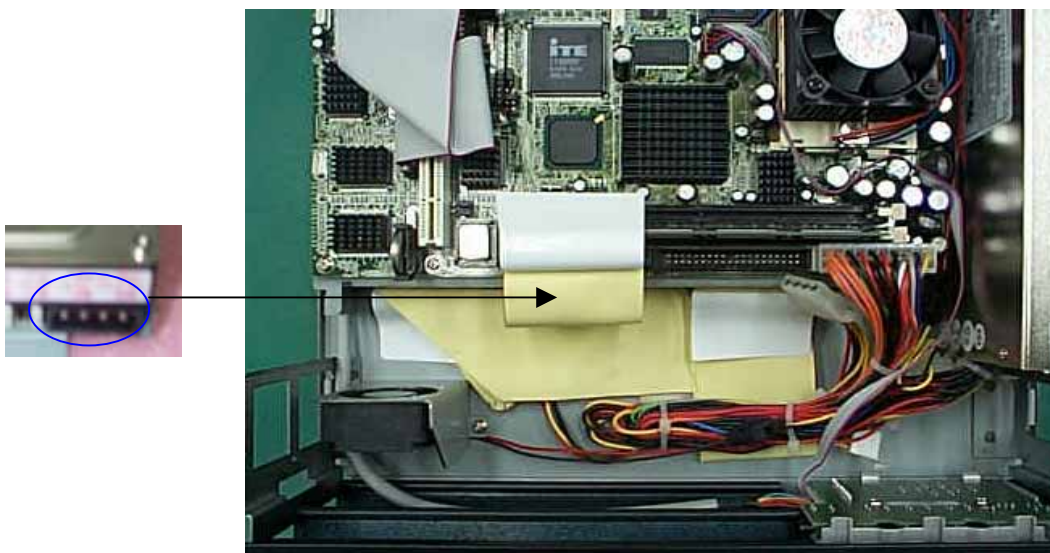
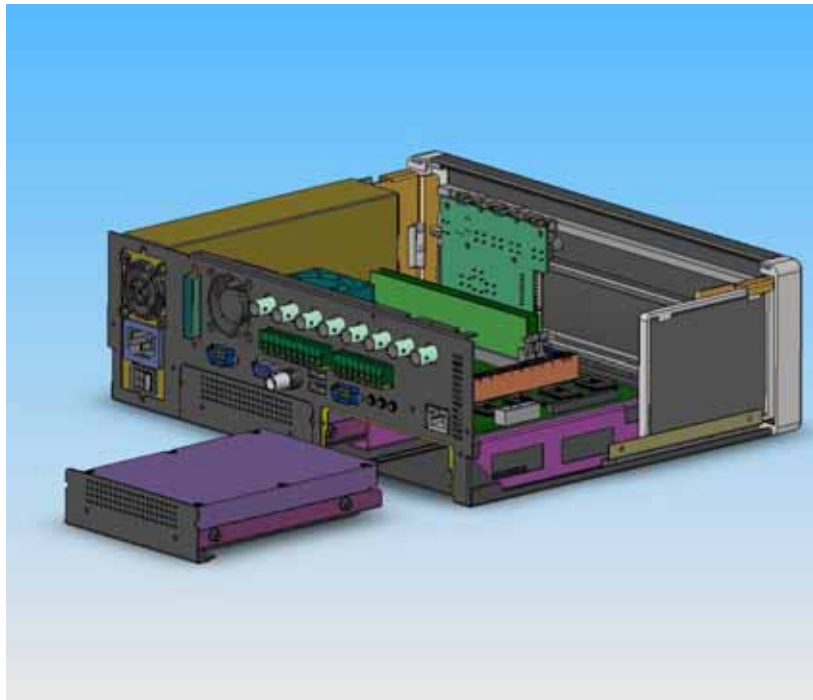
2. Take off the upper cover and remove the screws.



3. Remove HDD Tray, and install HDD properly.



4. Insert the assembled HDD tray into TRACER2000, and connect both Power and HDD cables.



5. Assemble the upper cover and the screws.

