

# *H.264 Micro-T Plus Installation & User's Manual*



*\* The contents of the manual can be modified without prior notice to customers*



## GENERAL SAFETY AND PRECAUTIONS

The Micro-T Plus is manufactured to meet international safety standards. Read the following safety precautions to avoid injury and prevent damage to the Micro-T Plus or any products connected to it.

1. Use a correct power source. Do not connect this product to a power source that supplies more than the specified voltage (DC12V/24V), as this will cause damage to the unit.
2. Never insert anything metallic into the Micro-T Plus as this can cause electric shock.
3. Do not operate in wet & dusty conditions. Keep product surfaces clean and dry. Avoid placing the Micro-T Plus in areas like a damp basement or a dusty hallway.
4. Do not expose this product to rain or use near water. If the product gets wet, unplug it and contact an authorized dealer immediately.
5. To clean the outside case of the Micro-T Plus, use a lightly dampened cloth (no solvents).
6. Do not operate if you suspected to unit is faulty. If there are any unusual sounds or smells coming from the Micro-T Plus, immediately unplug it and contact an authorized dealer or service centre.
7. Do not attempt to remove the top cover.
8. Warning: Removing the Micro-T Plus's cover can cause an electrical shock.
9. Handle Micro-T Plus carefully to avoid damaging the product. Dropping your Micro-T Plus on any hard surface may cause the unit to malfunction. If the Micro-T Plus does not work properly due to physical damage, contact an authorized dealer for repair or exchange.
10. The unit has a lithium battery preinstalled.  
The standard lithium cell 3V battery located on the motherboard should be replaced if the time clock does not hold its time after the power is turned off.

### **Warning:**

Unplug the Micro-T Plus before replacing battery or you may be subjected to severe electrical shock. Properly dispose of old batteries.

### **Caution:**

Risk of explosion if battery is replaced by an incorrect type. Do not discard lithium batteries into the trash can or into fire. Dispose in accordance with local waste regulations.

### **Information to user**

The user's manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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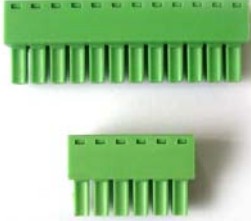

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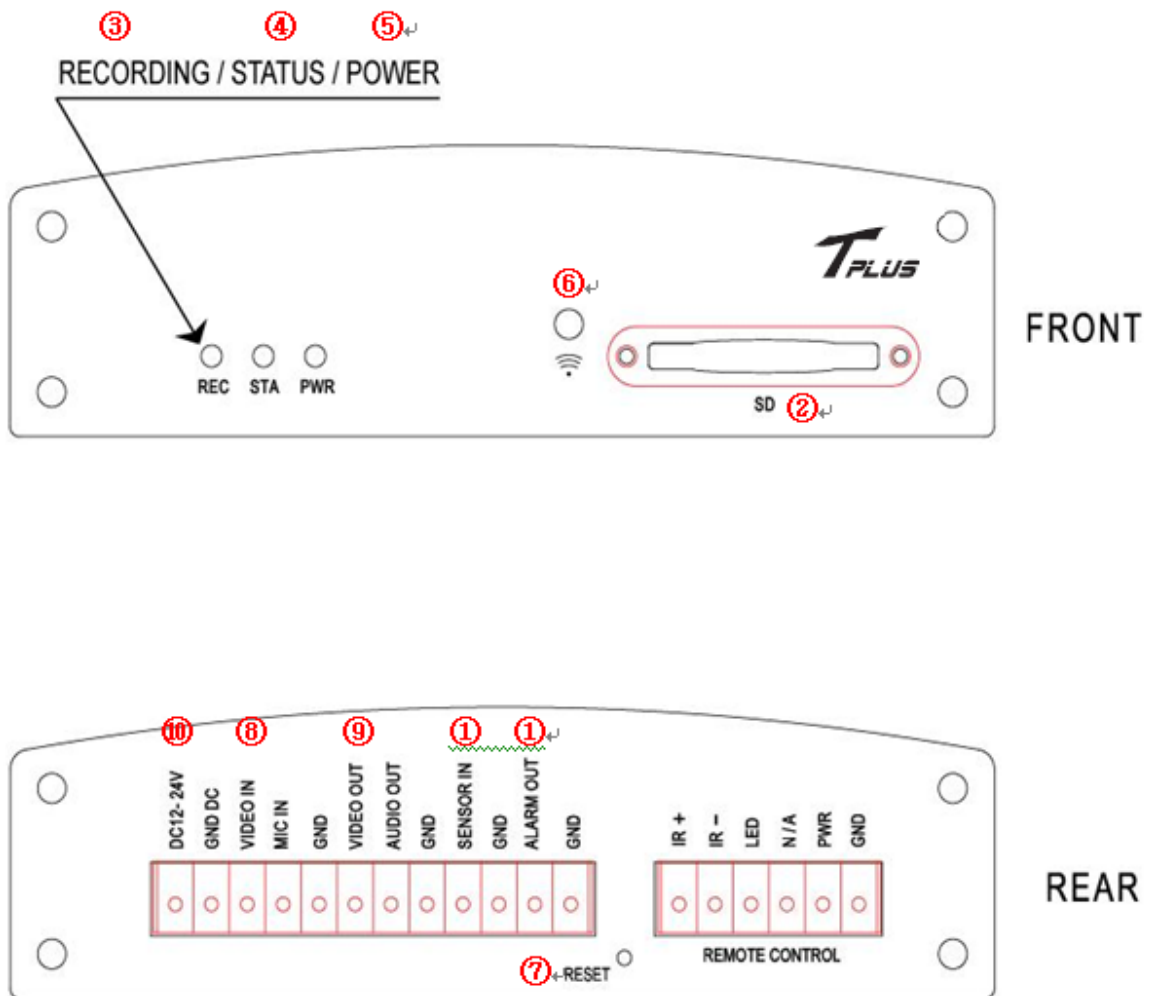
## 1 Chapter : Packing Contents

► Contents in the package

		
<p>Micro-T Plus Unit</p>	<p>REMOTE CONTROL</p>	<p>INSTALL CD</p>
		
<p>TERMINAL BLOCK</p>	<p>QUICK GUIDE</p>	

**Chapter 2: Getting To Know Your Micro-T Plus**

**► Micro-T Plus**



This chapter briefly describes the functions of each button on Micro-T Plus. The buttons are used to operate the basic functions of Micro-T Plus, such as recording, playback, fast-forward, reverse play and etc. For more details on the set-up and operation of Micro-T Plus, refer to Chapter 6, Micro-T Plus MENU.



<b>1</b>	<b>Sensor-in / Alarm-out</b>
	The sensor-in is installed to connect Sensor Terminal Block on the main body of Micro-T Plus and alarm activates when event occurs. If you add motion sensor devices to your Micro-T Plus, the video recording can be triggered by event. The alarm output terminal is used to install a single alarm device
<b>2</b>	<b>SD Memory Slot</b>
	Insert or remove the SD CARD.
<b>3</b>	<b>REC LED</b>
	GREEN LED turns on during Recording mode.
<b>4</b>	<b>STA LED</b>
	STA LED turns on when Event occurs or Error. (Recording Mode: GREEN LED ON & ORANGE LED BLINK, Error: ORANGE LED BLINK)
<b>5</b>	<b>POWER LED</b>
	RED LED turns on when power is up.
<b>6</b>	<b>Remocon Receiver</b>
	When controlling Micro-T Plus by remote control, be sure to point at the receiver.
<b>7</b>	<b>Reset</b>
	Product returns to default value.
<b>8</b>	<b>AV-IN</b>
	AUDIO/VIDEO INPUT PORT
<b>9</b>	<b>AV-OUT</b>
	AUDIO/VIDEO OUTPUT PORT
<b>10</b>	<b>Power</b>
	12V/ 24V POWER INPUT PORT

## Chapter 3: Remote control



1		<b>REC</b>	Start EMERGENCY RECORDING or stops recording.
2		<b>MENU</b>	Enter & Exit from OSD menu mode.
3		<b>UP/ DOWN</b>	Change values from OSD menu. On SEARCH MODE, find recorded files.
4		<b>LEFT/ RIGHT</b>	Change values from OSD menu. REW: Fast Rewind (X2-X4-X8-X16) FF: Fast Forward (X2-X4-X8-X16)
5		<b>REW</b>	Fast Rewind (X2-X4-X8-X16)
6		<b>FF</b>	Fast Forward (X2-X4-X8-X16)
7		<b>PLAY</b>	Playback
8		<b>STOP</b>	Stop playback. (Display the first frame of the playback file) ※SD CARD POWER OFF (Press for 1 SEC)
9		<b>PAUSE</b>	Pause playback or resume playback.
10		<b>MUTE</b>	Remove Audio during playback.
11		<b>ENT</b>	On PLAYBACK MODE, playback at X1. From OSD MENU, new setting value completed



12		<b>SEARCH</b>	Enter& Exit SEARCH menu.
13		<b>MODE</b>	Switch between PLAYBACK MODE and LIVE VIEW MODE.

**Remote Control Key Function on Each Mode (LIVE VIEW / PLAYBACK / MENU)**

Function	LIVE		PLAY BACK		Menu	Remark
	Stand-by	Recording	Stand-by	Play		
RECORD	O	O	X	X	X	O:AVAILABLE X: N/A
MENU	O	X	O	O	O	
SEARCH	O	X	O	O	X	
MODE	O	X	O	O	O	
UP	X	X	O	O	O	
DOWN	X	X	O	O	O	
REW(LEFT)	X	X	X	O	O	
FF(RIGHT)	X	X	X	O	O	
ENT	X	X	O	O	O	
REW	X	X	X	O	O	
FF	X	X	X	O	O	
PLAY	X	X	O	O	O	
STOP	X(O)	X(O)	X(O)	O	X(O)	
PAUSE	X	X	X	O	X	
MUTE	X	X	X	O	X	

## Chapter 4: Getting Started

### HOW TO INSTALL Micro-T Plus

Below is an overview of the Micro-T Plus installation procedures (For more detail please refer to Chapter 5 - Hardware Installation.).

- (1) Insert the SD memory card into the SD card slot.
- (2) Connect Micro-T Plus to a TV set or MONITOR.
- (3) Connect camera to Micro-T Plus
- (4) Connect optional accessories (sensors or alarm).
- (5) Connect the power input.
- (6) Turn on the power.
- (7) Start TV Monitoring and recording.

#### General Operating Advice:

---

- Make sure that a SD Memory is inserted and one camera is properly connected. (Refer to Chapter 5 -Hardware Installation)
- The SD Memory must be formatted (Refer to Chapter 5 – SD Memory Installation for more information.) Otherwise, Micro-T Plus may not recognize the SD Memory.
- The firmware used in Micro-T Plus is compatible with user's computer OS(i.e. Windows). Therefore, user can take the SD memory card from this Micro-T Plus and install it in your computer to view recorded video. (Refer to the PC Viewer manual.)
- Micro-T Plus offers you the flexibility to choose a recording frame rate (maximum rate: 30 frames per second). The faster the frame rate is, more natural video image output appears from recorded files. However, it requires more SD Memory storage. You may reduce the frame rate (minimum rate: 1 frame per second) to fit longer recording sessions in consideration of your SD card capacity.
- If a camera is normally connected to Micro-T Plus, it enters the default operational state: VIEW MODE. In this MODE, Micro-T Plus does not record nor play the recorded stream. It just shows the current images from camera connected to Micro-T Plus.
- The default values of Micro-T Plus for recording are set up at 30 frames per second with High video quality. If you use 1GB SD Memory, Micro-T Plus can record approximately for 1 hour in a row.
- There is an exception to entering the VIEW MODE at starting up Micro - T plus. If the power is abnormally turned off while Micro-T Plus is performing emergency recording (i.e. a power failure), it will enter recording MODE automatically when you reboot Micro-T Plus.

Refer to Chapter 5 - Hardware Installation for more information on installation procedures.

## Chapter 5: Hardware Installation

### SD memory INSTALLATION

① Format SD Memory.

Insert SD memory into SD card slot on your PC and format it.

**※ Be sure to format SD Card in FAT32 and set default allocation size to below 32KB**

② Insert SD Memory into SD slot on Micro-T Plus.

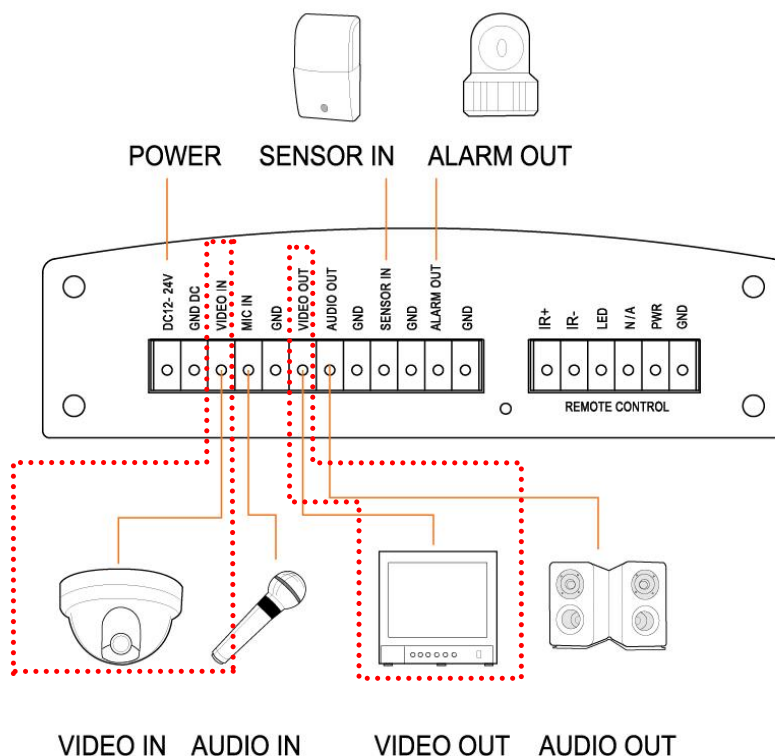
After formatting, take out SD Memory from your PC and insert it into SD slot on Micro-T Plus.

③ Backup recorded files in SD memory

When SD Memory storage is full, the recorded files can be backed up in your PC. Insert SD card in your PC and move the files of SD card into the HDD of our PC. You can also check each recorded file through Micro D Player.

### CONNECTING Micro-T Plus TO TV or MONITOR

① Video Input/Output Connection (For TV / monitor screen display)

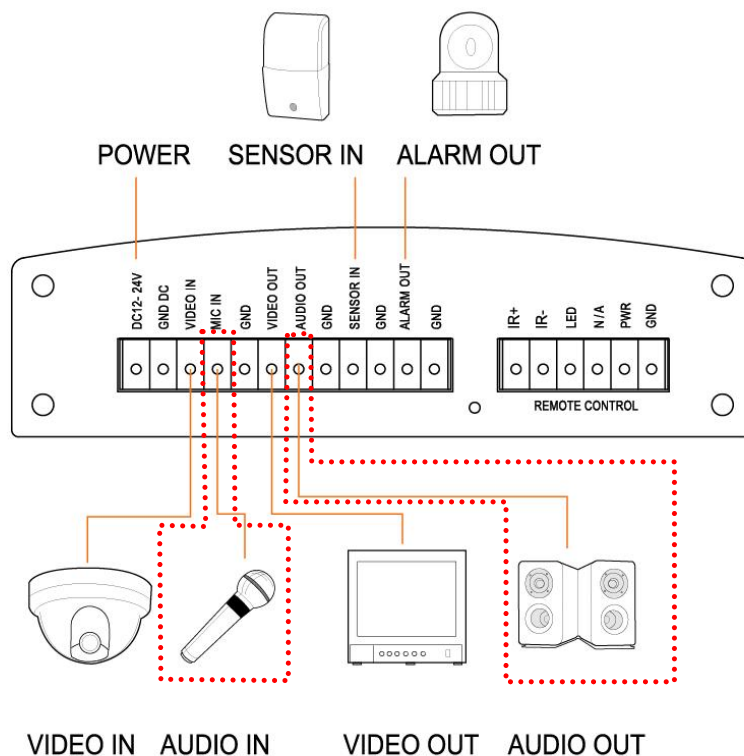


To display images from the Micro-T Plus, connect the video output port to MONITOR or TELEVISION. Any Television with a VIDEO INPUT terminal is suitable for displaying the images. The diagram above shows the video signal connections.

Connect the CAMERA to VIDEO-IN terminal of AV-IN connector; connect the MONITOR to VIDEO OUT terminal of AV-OUT connector.

**Note: The RCA cable required for this connection is not provided with the Micro-T Plus.**

② Audio Input/Output Connection (For TV / monitor speaker)



Connect the microphone to AUDIO-IN terminal of AV-IN connector and connect the speaker to AUDIO OUT terminal of AV-OUT connector.

**Note:** The RCA cable required for this connection is not provided with the Micro-T Plus.

※ SanDisk SD cards have been tested and proved to be compatible with Micro-T Plus. But SD specifications can be changed without prior notice. So be sure to check with local distributors regarding compatibility of the SD CARD before purchasing.

The compatibility with other brands is not guaranteed.

Recommended SD Cards;

- SanDisk SD SDHC 4GB/ 8GB/ 16GB/ 32GB

※ Micro-T Plus has limitation to generate files to 2000. In case of using high capacity SD card and recording files have short playback time, the total capacity of the SD CARD may not be fully used.

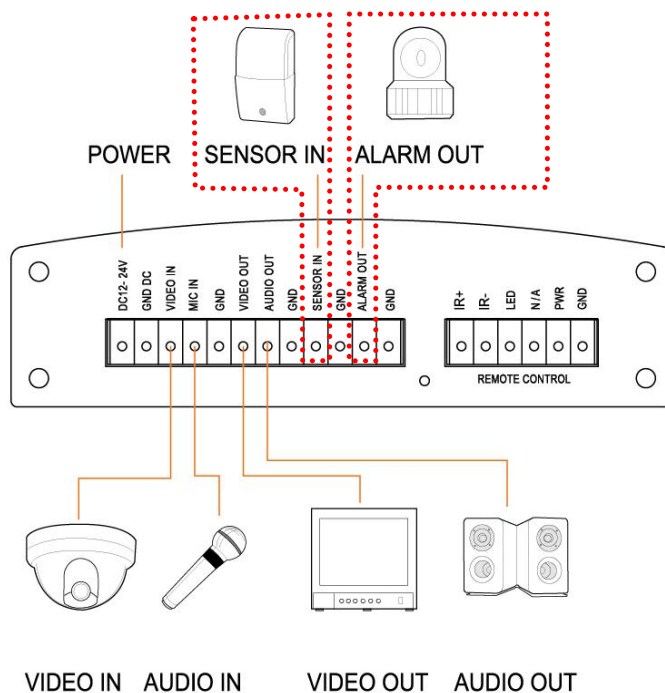
**⚠ CAUTION**

If you want to remove SD CARD during recording, press STOP button first for more than 1 second to power off SD card. SD CARD POWER Off status lasts for about 20 seconds. (REC LED flickers)

## ALARM INSTALLATION

The Micro-T Plus has an internal switch for sounding an alarm. When a sensor is triggered, the alarm is activated as well.

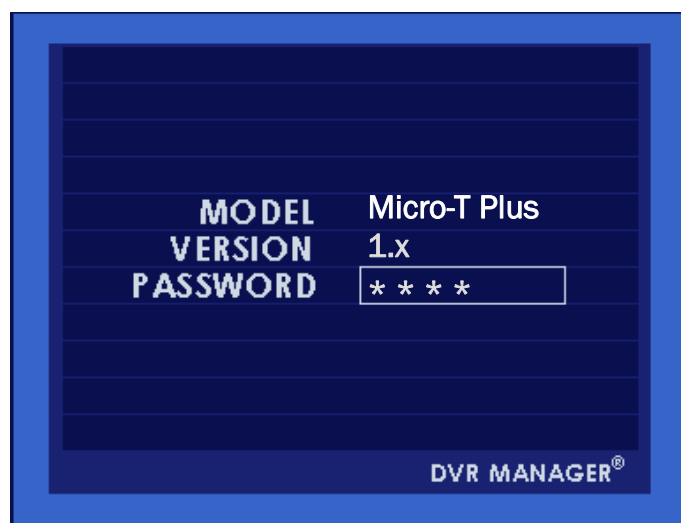
1. Connect SENSOR to the SENSOR INPUT port and ALARM device to the ALARM OUT port. Refer to the diagram below for information on how to connect an alarm to your Micro-T Plus.



**Note:** Contact an authorized dealer for information about buying the appropriate alarm device for your needs and for information concerning proper installation procedures.

## Chapter 6: OSD MODE

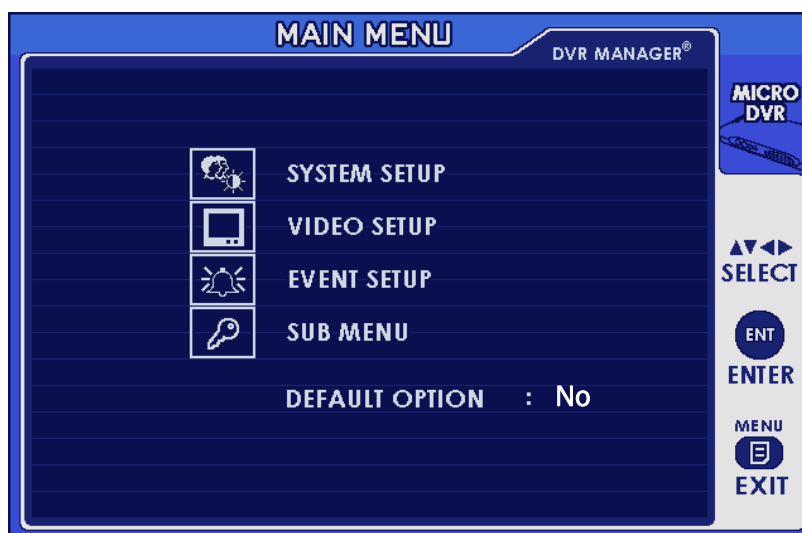
### 1. ACCESS TO OSD MENU



Press 'MENU' button on remote control to access to Micro-T Plus OSD menu. Please refer to 'Chapter 3: Remote control' about how to use remote control buttons.

Password is '0000' as default. The password can be changed on '[SUB MENU] → [PASSWORD CHANGE]'. In order to select cameras for recording, set Video quality, schedule recording times and to set other operation parameters, you will need to access the Micro-T Plus menu. Numerals can be selected by pressing up/down button on remote control.

### 2. MAIN MENU



In the MAIN menu, the 'indicator '>' will be shown on the left of each menu. Press 'UP/DOWN' button on remote control to select a desired menu. When '>' is indicated on the desired menu and press 'ENTER' button for access.

### 3. SYSTEM SETUP



**3.1 TIME & DATE OVERLAY:** The option to display 'TIME and DATE' stamp on the screen. Select 'OFF' when you don't want "Time and Date" stamp on the screen on LIVE VIEW Mode or Playback Mode.

#### 3.2 TIME SET: SETUP TIME

**3.2-1 DAY LIGHT SAVING:** SELECT 'ON', when you want to apply day light saving. Set up specific period when day light saving is applied.

**3.2-2 TIME CORRECTION:** Where there is discrepancy between DVR set time and actual time, user can correct the discrepant time.

- Time: -999 sec (DVR set time is ahead of actual time) ~ +999 sec (the reverse)
- Correction Cycle: Day / Week / Month

#### 3.3 LANGUAGE SETUP:

English, French, Dutch, German, Spanish, Japanese, Chinese

#### 3.4 VIDEO OUTPUT

Display NTSC or PAL according to unit's CCD type.

#### 3.5 BRIGHTNESS

Select brightness value among low, normal and high.

## 4. VIDEO SETUP



### 4.1 RESOLUTION:

Select video resolution (4CIF / 2CIF / CIF)

LIVE VIEW Resolution - PAL

	HIGH	NORMAL	LOW
4CIF	704x576 / 25fps	704x576 / 25fps	704x576 / 25fps
2CIF	704x288 / 25fps	704x288 / 25fps	704x288 / 25fps
CIF	352x288 / 25fps	352x288 / 25fps	352x288 / 25fps

LIVE VIEW Resolution - NTSC

	HIGH	NORMAL	LOW
4CIF	704x480 / 30fps	704x480 / 30fps	704x480 / 30fps
2CIF	704x240 / 30fps	704x240 / 30fps	704x240 / 30fps
CIF	352x240 / 30fps	352x240 / 30fps	352x240 / 30fps

PLAYBACK Resolution - PAL

	HIGH	NORMAL	LOW
4CIF	704x576	704x576	704x576
2CIF	704x576	704x576	704x576
CIF	704x576	704x576	704x576

PLAYBACK Resolution - NTSC

	HIGH	NORMAL	LOW
4CIF	704x480	704x480	704x480
2CIF	704x480	704x480	704x480
CIF	704x480	704x480	704x480



**4.2. VIDEO QUALITY:**

(HIGH / NORMAL / LOW): Select desired video level

MODE	HIGH	NORMAL	LOW
QUALITY(4CIF)	1700kbps	1000kbps	500kbps
QUALITY(2CIF)	1200kbps	800kbps	400kbps
QUALITY(CIF)	1000kbps	600kbps	300kbps

**4.3 FRAME RATE:**

PAL: Selectable among 25, 12, 8, 6, 3, 1

NTSC: Selectable among 30, 15, 10, 6, 3, 1

**4.4 PRE-RECORDING:**

MODE	HIGH		NORMAL		LOW	
	Bit Rate (kbps)	Pre Recording Time	Bit Rate (kbps)	Pre Recording Time	Bit Rate (kbps)	Pre Recording Time
4CIF	1700	10sec	1000	15 sec	500	20 sec
2CIF	1200	20 sec	800	25 sec	400	30 sec
CIF	1000	30 sec	600	35 sec	300	40 sec

**4.5 POST RECORDING TIME:**Post recording time means the recording time between the beginning and end of an event.  
(Min. 5 sec, Max. 30 min)**4.6 AUDIO INPUT LEVEL:**

User can select from '0' to '10' according to microphone input level

- '0': Audio Recording Off
- 1: lowering microphone level
- 10: Increasing microphone level

**4.7 AUTO RECORDING:** Starts recording automatically 30 seconds after power is up.**4.8 DISK OVERWRITE:**

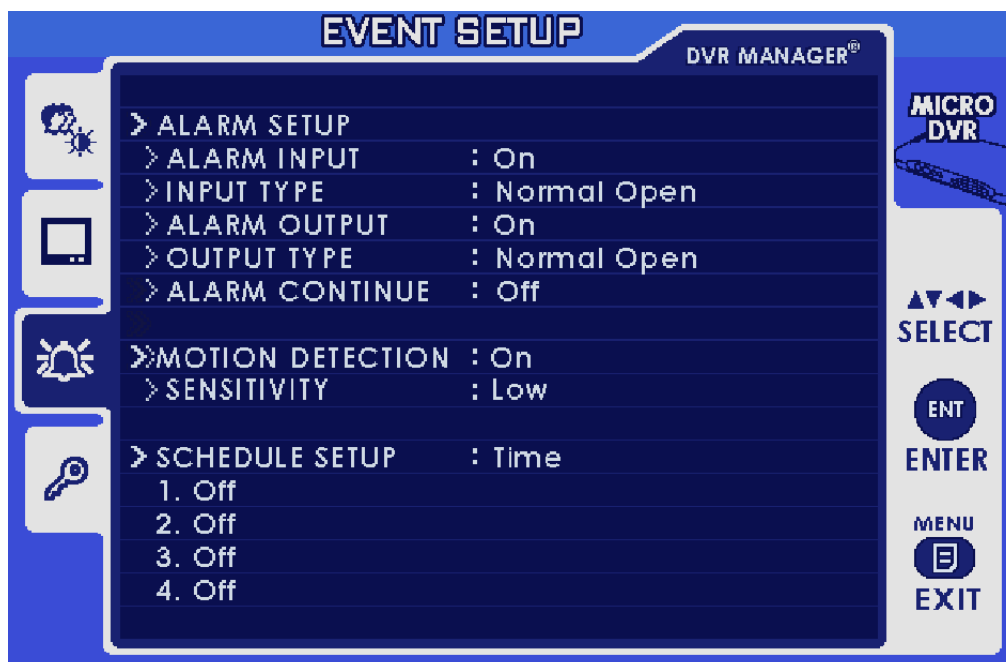
If overwrite is set to ON, the Micro-T Plus will continue recording while automatically overwriting the oldest recorded files when SD memory storage capacity is full. Set to OFF, the recording will stop when the SD Memory is full.

4.8.1. SD CARD FULL WARNING: Select 'ON' if you want to display 'SD CARD FULL WARNING' when the

SD card is full. Icon  appears on screen

4.8.2. REMAINING TIME: Remaining time for possible recording time

## 5. EVENT SETUP



### 5.1 ALARM SETUP: Setup ALARM CONDITION

#### 5.1.1 ALARM INPUT: Setup ALARM INPUT ON/OFF

Select 'ON' for ALARM EVENT RECORDING.

#### 5.1.2 INPUT TYPE: Select alarm input type between 'Normal Open' and 'Normal Close'

NC: NORMAL CLOSE

NO: NORMAL OPEN

#### 5.1.3 ALARM OUTPUT

ALARM INPUT	ALARM OUTPUT	
Normal Open	Normal Open	Alarm input type is Normal Open. The device connected to alarm output is in 'OFF' status and turns ON when events occur.
Normal Open	Normal Close	Alarm input type is Normal Open. The device connected to alarm output is in 'ON' status and turns OFF when events occur.
Normal Close	Normal Open	Alarm input type is Normal Close. The device connected to alarm output is in 'OFF' status and turns ON when events occur.
Normal Close	Normal Close	Alarm input type is Normal Close. The device connected to alarm output is in 'ON' status and turns OFF when events occur.

## 5.2. ALARM CONTINUE:

Continues recording until event stops regardless of post recording time.

## 5.3 MOTION DETECTION

5.3.1 Select the degree of sensitivity of motion detection in terms of (LOW / NORMAL / HIGH).

## 5.4 SCHEDULE SETUP

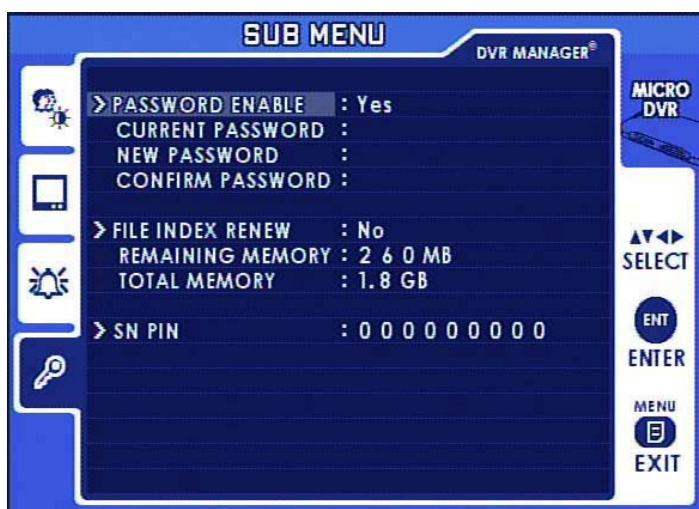
Setup time for Schedule Recording (Up to 4 different time settings possible)

5.4.1 TIME: Start to record when scheduled time is up.

5.4.2 TIME & EVENT: to record when motion is detected or an alarm occurs during scheduled period.

## 6. SUB MENU

### 6.1 PASSWORD ENABLE:

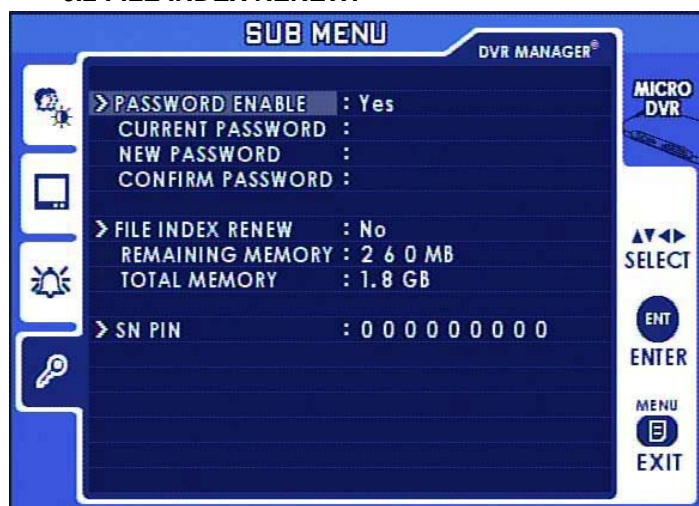


The Factory Default Password is 0000. To enter this number, press the UP, DOWN button on the remote control. Once you input the current password, set a new four digit password using the buttons UP, DOWN on the remote control. Then, confirm your new password by entering the number again. \*

**PASSWORD ENABLE: 'NO'**

Select 'NO', if you want to enter the OSD MENU without Password.

### 6.2 FILE INDEX RENEW:



The index file is automatically generated and stored in the SD card when inserted into Micro-T Plus. If the index file does not match the files actually stored in the SD card, users can synchronize the index file list and the actual file list. While synchronizing, the process percentage is displayed; on completion the value returns to 'NO'.

## Chapter 7: SCREEN MODE

### 1. LIVE SCREEN MODE








In LIVE SCREEN MODE, 'TIME & DATE' information, screen icons and messages are displayed on the screen.



#### 1.1 SCREEN MESSAGE

Message	Description
<b>INITIALIZING...</b>	Displays when the MICRO-T Plus is initializing during booting.
<b>WAIT...</b>	Displays when PLAYBACK &LIVE MODE are switched or searching recorded files.
<b>FILE NOT FOUND</b>	Displays when there is no recorded files in the SD or no search result on SEARCH MODE.
<b>SD CARD ERROR</b>	Displays when the SD card is physically damaged or recorded files in the SD CARD are damaged.
<b>NO SIGNAL</b>	Displays when there is no video input.
<b>SD CARD LOCKED</b>	Displays when SD CARD is locked or has an error.
<b>INSERT SD CARD!</b>	Displays when there is no SD CARD.
<b>SD CARD FULL!</b>	Displays when SD CARD is too full to record further video files. (OVERWRITE OFF)
<b>MEMORY ERROR</b>	Displays when there is error in SDR2 FILE

## 1.2 SCREEN ICON

	<b>EMERGENCY</b>	Displays during EMERGENCY RECORD MODE.
	<b>MOTION</b>	Displays during MOTION - TRIGGERED MODE.
	<b>ALARM</b>	Displays during SENSOR-TRIGGERED RECORD MODE
	<b>TIME</b>	Displays during SCHEDULE RECORD MODE.
	<b>FULL</b>	Displays when empty space remains less than 5% of the total SD Card storage. The icon disappears when 'disk full warning is set to 'OFF' on OSD menu.
	<b>SYNC</b>	Displays when the content of index file is not matched with recorded files actually stored in the SD. The icon disappears when 'memory synch' is performed on OSD menu.
	<b>SEARCH</b>	Displays during SEARCH MODE.

※ All Recording Indicators will show up first in red color and then turn into white.




**RED INDICATOR:** RED INDICATOR: Recording is processing. But if you stop recording, no file is made and thus it is not saved. (The unit has not had the time to form a file)



**WHITE INDICATOR:** When the white indicator is displayed, it means the recorded file can be made, even if you stop recording.

## 2. SEARCH MODE



When pressing  'SEARCH' button, LOGIN window appears.  
To Enter 'Search MODE', enter 4-digit password

### 2.1 SEARCH LIST:



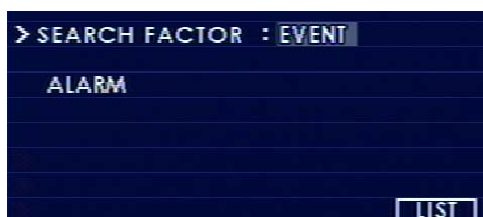
After pressing  'SEARCH' button on remote control, click 'LIST'. The search results will be listed.

### 2.2 SEARCH FACTOR:

There are four ways to search recorded files; **TIME, EVENT, BOTH (TIME & EVENT), NONE**

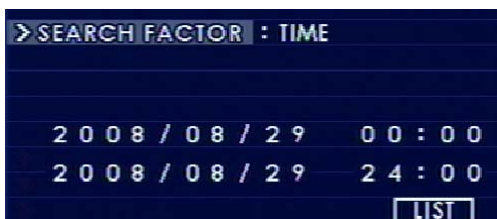
#### 2.2.1 SEARCH FACTOR – EVENT:

When you select 'EVENT (or BOTH) on SEARCH MODE', subordinate search conditions open; ALARM / MOTION / EMERGENCY / TIME (Here, the time means "scheduled time recording" using scheduling feature). More than two conditions can be selected. In this case, each condition is connected with 'OR' condition.



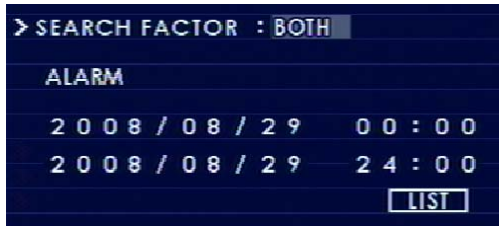
- \* **ALARM:** To search recorded files triggered by alarm-in event.
- \* **MOTION:** To search recorded files triggered by motion
- \* **EMERGENCY:** To search recorded files generated by emergency recording (full recording)
- \* **TIME (scheduled time):** To search recorded files generated by time schedule

#### 2.2.2 SEARCH FACTOR – TIME:



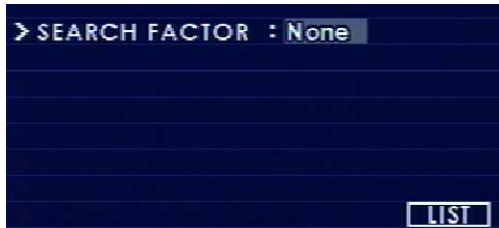
To search recorded all files within the specific period of time.  
Enter the time period you wish to search.

**2.2.3 SEARCH FACTOR – BOTH:**



When you select BOTH, search factors are combined in multiple conditions such as TIME and ALARM / TIME and MOTION /TIME and MOTION and EMERGENCY etc.

**2.2.4 SEARCH FACTOR – NONE:**



To search all the recorded files stored in the SD card.

**2.3 PLAYBACK SCREEN VIEW**



< Play Back Screen View >

**APPENDIX****TECHNICAL SPECIFICATION**

<b>ITEM</b>	<b>DESCRIPTION</b>			
<b>VIDEO</b>				
Encoding	H.264			
Input Channel	1 Ch.			
Input impedance	75 ohm Unbalanced			
Input Format	PAL/NTSC (Auto Detection), Composite, Auto detection function			
Maximum Input	1.0Vp-p @ 75 Ohm Unbalanced			
Output Channel	1 Ch.			
Output impedance	75 ohm Unbalanced			
Output Format	PAL/NTSC (according to Input), Composite			
Maximum Output	1.0Vp-p @ 75 Ohm Unbalanced			
<b>RECORDING</b>				
Video Recording Resolution	Format	PAL	NTSC	
	4CIF	704x576	704x480	
	2CIF	704x288	704x240	
	CIF	352x288	352x240	
Video Recording Quality	Format	High	Normal	Low
	4CIF	1700Kbps	1000Kbps	500Kbps
	2CIF	1200Kbps	800Kbps	400Kbps
	CIF	1000Kbps	600Kbps	300Kbps
Video Recording Frame Rate	PAL	25, 12, 8, 6, 3, 1 fps		
	NTSC	30, 15, 10, 6, 3, 1 fps		
Recording MODE	Emergency / Schedule / Alarm / Motion Detection			
Decoding Video Format	As recorded Quality & Frame Rate			
Pre-recording Time	> 10sec(by Video Quality Setup)			
Storage	Support SD, SDHC (4GB/ 8GB/ 16GB/ 32GB max.)			
Storage File System	FAT32 : Default allocation size to below 32KB			
Maximum Recording File	2,000 files /Storage Device			
<b>AUDIO</b>				
Compression Format	16bit PCM, 8KHz			
Input Channel	1 Ch. Mono			
Input impedance	> 4.7Kohm, Unbalanced			
Maximum Input	6 mVp-p @600ohm			
Output Channel	1 Ch. Mono			
Maximum Output	13mW@RL =16ohm, Unbalanced			
<b>Alarm</b>				
Input	1 Ch. TTL(Internal full-up)			



Output	1 Ch. TTL(Open collector)
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**OPERATING MODE**

Searching Method	Time/Event
Operating MODE	Live/Playback/Menu

**VIEWER SOFTWARE**

Monitoring Environment	Client S/W
Connection	Supporting 1 Client

**I/O**

A/Video Input	1Port, Female Stereo Phone Jack(include Jack Conversion Cable)
A/Video Output	1Port, Female Stereo Phone Jack(include Jack Conversion Cable)
Alarm I/O	1Port, Pluggable Terminal Block(include Plug)
SD Slot	1Port, SD Card Slot
DC Power Input	1Port, DC Power Jack

**OTHERS**

LED	3 Status LED
Storage	Support SD, SDHC (4GB/8GB/16GB/32GB max.)

**POWER**

Power consumption	Approx. 240mA @ 12V/ 24V
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**ENVIRONMENTAL**

Operating Temperature.	-20 ~ +60 °C
Humidity	30 ~ 80 %RH (non-condensing)

**PHYSICAL**

Dimension	120(W) x 56 (L) x 30 (H) mm
Weight	Approx. 150g

**ACCESSORY**

Remote Control	Supplied
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## Approximate Recording Time Table

4CIF (704x480 / D1) Recoding Time (NTSC/PAL): SANDISK – SD/SDHC memory

Memory	Usable Memory	HIGH / 4CIF / 25fps	NORMAL / 4CIF / 25fps	LOW / 4CIF / 25fps
1 GB	960 MB	58 min	1hr 40min	3hr
2 GB	1.9 GB	2hr 2min	3hr 26min	6hr 10min
4 GB	3.8 GB	4hr 4min	6hr 57min	12hr 44min
8 GB	7.4 GB	8hr 3min	13hr 46min	24hr 44min
16 GB	14.9 GB	16hr	27hr 42min	49hr 46min
32 GB	30.2GB	32hr 52min	56hr 11min	100hr

2CIF (704x240) Recoding Time (NTSC/PAL): SANDISK – SD/SDHC memory

Memory	Usable Memory	HIGH / 2CIF / 25fps	NORMAL / 2CIF / 25fps	LOW / 2CIF / 25fps
1 GB	960 MB	1hr 25 min	2hr 1 min	3hr 34 min
2 GB	1.9 GB	2hr 55 min	24hr 10 min	7hr 20 min
4 GB	3.8 GB	5hr 54 min	8hr 27 min	14hr 51 min
8GB	7.4 GB	11hr 42 min	16hr 44 min	29hr 25 min
16 GB	14.9 GB	23hr 32 min	33hr 41 min	59hr 12 min
32GB	30.2GB	47hr 43min	68hr 18min	120hr

CIF (352x240) Recoding Time (NTSC/PAL): SANDISK – SD/SDHC memory

Memory	Usable Memory	HIGH /CIF / 25fps	NORMAL /CIF / 25fps	LOW / CIF/ 25fps
1 GB	960 MB	1hr 40 min	2hr 35 min	4hr 24 min
2 GB	1.9 GB	3hr 26 min	5hr 19 min	9hr 3 min
4 GB	3.8 GB	6hr 57 min	10hr 46 min	18hr 20 min
8 GB	7.4 GB	13hr 46 min	21hr 20 min	36hr 18 min
16 GB	14.9 GB	27hr 42 min	42hr 56 min	73hr 2 min
32GB	30.2GB	56hr 11min	87hr 4 min	148hr

※Micro-T Plus has limitation to generate files to 2000. In case of using high capacity SD card and recording files have short playback time, the total capacity of the SD CARD may not be fully used.

※Recording time can differ according to SD card kinds.