

# **Digital Video Recorder**

# **DVR-400**

# **User's manual**



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# Revision

User's Manual for PLANET Digital Video Recorder

Model: DVR-400

Rev: 1.0 (Oct. 2004)

Part No. EM-DVR400V1

# **Table of Contents**

Chapter 1 Introduction	1
Overview	1
DVR Functions	1
Package Content	2
Physical Details	2
Buttons Definitions	2
Physical Interfaces	4
Chapter 2 Preparations & Installation	5
Installing and Configuring DVR-400	5
On-Screen Display	9
Administration Interface	10
OSD (On Screen Display) administration	10
Chapter 3 DVR- 400 Menu Setup	12
Introduction	12
MAIN MENU	12
CAMERA SELECT	13
RECORD SELECT	14
VIDEO RECORDING MODE	14
RECORD FRAMRATE	15
VIDEO QUALITY	
RECORD SCHEDULE	17
SUB MENU	
PASSWORD CHANGE	18
TIME SET	19
DATE DISPLAY FORMAT	19
HDD SETUP	20
SENSOR SETUP	20
How to enable the Motion detection recording in DVR-400	21
NETWORK SETUP	22
PLAYBACK Configurations	23
CONTROL BUTTONS	23
Chapter 4 DVR-400 Client Utility Administration	25
DVR-400 client utility	25
Procedures of DVR Client utility	
Appendix A Specifications	29

# Chapter 1 Introduction

1

# Overview

The DVR-400 (Digital Video Recorder) is for recording/retrieving video streams from up to 4 channels at the same time. It adopts cutting-edge digital image compression technology to compress the analog input channel video streams, and uses HDD to record the compressed video stream.

The following operation guide explains how to operate/manage the DVR-400, and the following installation guide explains how to complete the first DVR-400 installation on your side.

### **DVR Functions**

- High quality M-JPEG compression
- Video loop through
- Real-time 4 concurrent cameras recording
- MAX. 120 FPS video displaying rate
- Motion detection / video lost buzzer
- Matured embedded system remote monitoring and control of DVR
- 4 alarm input for various application
- Swappable HD / Max. 250 GB HD support
- Scheduled/event/continuous recording

# **Package Content**

The contents of your product should contain the following items:

DVR-400 unit

Power adapter

Screws for swappable HDD tray

Keys for swappable HDD tray

Quick installation guide

User's manual CD

# **Physical Details**



#### Front Panel of DVR-400



#### **Rear Panel of DVR-400**

#### **Buttons Definitions**

The following are the introductions of DVR-400 front panel buttons. The definitions of the front are shown below:



- MENU: press to display Operation menu option
- SELECT: press to change menu field
- ENTER: press to change the setting value or enter into a sub menu
- **RECORDING:** press to start recording.
- STOP (recording/playback): press stop video recording/playback

```
When stopping video recording; it is required to enter the authorization password. The default value is 111111
```

- FAST FORWARD: press to play the recorded stream faster.
- PLAYBACK: press to start playback
- **PAUSE**: press to pause the video playback
- REVERSE: press to playback backward
- CHANNEL 1: press to select video source on channel 1
- CHANNEL 2: press to select video source on channel 2
- CHANNEL 3: press to select video source on channel 3
- CHANNEL 4: press to select video source on channel 4
- ALL CHANNELS: press to select all channels display

When entering or modifying password, the button definitions are shown below:



Button definition when entering password

means "1"	▼	means "6"
means "2"	₊	means "7"
means "3"	₩	means "8"
means "4"	II	means "9"
means "5"	₩	means "0"

## **Physical Interfaces**

Physical conection interface of DVR-400 are shown and explained in the following descriptions.



- 1. S-Video:
- 2. Video output:
- 3. Monitor: Second Video output.
- 4. Video input: Connect your standard video cameras to these inputs.
- **5.** Video loop-through: These outputs provide loop-through connections, and can be used for direct monitoring of the connected video cameras.
- 6. Sensor input/alarm output: 4 sensor inputs and one alarm output.
- 7. NTSC/PAL switch:
- 8. DC-in (12Voltage): Connect the power cable here.
- 9. Audio input/output:
- 10. LAN: 10/100 Ethernet via the RJ-45 socket.
- **11. Power switch:** This switch should only be used after shutting down the unit correctly with the help of the Power button on the front panel.



# **Chapter 2**

# **Preparations & Installation**



# Installing and Configuring DVR-400

#### STEP1:

Please power off the DVR-400 and unlock the DVR-400 swappable HDD tray



#### STEP2:

Remove the harddisk tray cover; connect your harddisk securely with the DC power cable and IDE cable in the harddisk tray. Make sure the installed HDD is set to "**Master**" and secure the HDD using the original HD screws or the screws in the DVR-400 accessory pack.



Place and lock the HDD tray to DVR-400. Power on the DVR-400, the DVR-400 will now automatically detect and format the new disk(s).



Please be sure to finish the hard disk drive installation before using the DVR. The Maximum HDD capacity support is 250GB.

#### STEP3:

Please connect TV (monitor) to the Video output connector in the rear panel.

**Note** DVR-400 provides one S-Video and two BNC connector for video output.



Video Input connection (TV or monitor)

#### STEP4:

Please use standard analog video cameras to connect to the DVR400. The DVR-400 equipped 4 BNC connectors on the rear panel for video input.

Physical camera installation with DVR-400 is shown as below:

- Connect the camera signal line to video input on DVR-400
- Power on camera, and you may now check the video on the screen.



DVR-400 provides 4 x BNC connectors for video source input.

#### STEP5:

Please ensure DVR-400 is power OFF before commencing, and check the power supply status. Use standard RJ-45 cables to connect the LAN port on DVR-400.

Use standard no 40 cables to connect the EAN port on DVN 40

Connect the supplied Power Adapter and power on machine.

The **PWR** LED Indicator should be Green during normal operation

After powering on the DVR-400, it will check HDD for several seconds; the information will be displayed on the monitor:

HDD Checking... MASTER HARD DRIVE [HDD Model number] HDD Checking...OK LAN Checking...OK Audio Checking...OK

After the internal checking completed, DVR-400 will enter into real-time display mode, the images on the connected camera will be displayed in real-time.



#### **Sensor Installation**

The unit provides 4 sensor input for 4 channels. The sensor Installation procedures are as follows.

For the installation of the sensors:

STEP1: Connect the sensor signal line to the alarm signal terminal is at the unit's back panelSTEP2: Connect the video signal line to the unit. The Sensor signal terminal is at the unit's back panelSTEP3: Connect the sensor adaptor jack into the sensor, and plug in the adaptor.



#### Alarm installation

The unit provides 1 internal switch for sounding alarm when the sensor is activated due to the unwanted entrance of anonymous visitor. The switch is open at normal state, but, when the alarm is activated, the switch is closed So that the alarm gets the power. The circuitry is shown as above figure. There are two simple steps for the installation of the alarm



i. Prepare the power supply: the alarm needs a power supply; the power supply comes with the alarm

ii. Connect the alarm power line: the alarm power line is connected to the alarm switch terminal.

# **On-Screen Display**



# **Administration Interface**

PLANET DVR-400 provides OSD menu for machine management and administration.



# **OSD (On Screen Display) administration**

PLANET DVR-400 connects with two default IP addresses, and default IP address is "**192.168.0.20**". You may use any PC to connect to the LAN port of DVR-400 to start machine administration.



# The LAN information Parameter Description of DVR-400

ACCEPT CLIENT	YES / NO Default: YES
MAC	MAC address of DVR-400 Default:
IP	LAN IP address of DVR-400 Default: 192.168.000.020
SUBNET MASK	LAN mask of DVR-400 Default: 255.255.255.000
GATEWAY	Gateway of DVR-400 Default: 192.168.000.254
4 Note	In the first installation, it is suggested to locate your PC in the same network segment (192.168.0.x) of DVR-400. If you're not familiar with TCP/IP, please refer to related chapter on user's manual CD or consult your network

administrator for proper network configurations.

\_\_\_\_\_

# Chapter 3 DVR- 400 Menu Setup

# Introduction

The DVR-400 OSD menu provides ease-of-use machine configurations; please press the **MENU** button of the front panel, then the OSD menu will appear with a cursor over the first item. The cursor can be moved by the up and down buttons.

### MAIN MENU

Please press """ button to display main menu optin shown as below figure

MAIN MENU	
CAMERA SELECT RECORD SELECT RECORD MODE RECORD FRAMERATE VIDEO QUALITY RECORD SCHEDULE SUB MENU HARD DRIVE SETUP SENSOR SETUP NETWORK SETUP	1234 1234 EACH 30 MORRMAL
PRESS (♠,∀), THEN (SE PRESS (MENU) TO EXIT	LECT)

# **Operation Buttons**

- --- Press to display menu option.
- ▲▼ --- Press to change menu field or change the unit's configuration values.
- --- Press to select menu item or confirm the selection.

4	Note
7	11010

Please stop recording or playback before you enter into OSD menu. You will be requested to enter machine admin password to stop recording.



## **CAMERA SELECT**

The DVR-400 provides 4 camera inputs. Please use channel buttons on the front panel to select specified channel for real-time display.



Please use "**SELECT**" button or "CHANNEL" buttons for different combinations for channel display. Example:

a) When you choose (----), all cameras are off

b) When you choose (1234), video content in all cameras will be displayed.

c) When you choose (1---), only the content of channel 1 will be displayed.

```
    Note While no video connection or connection failure,
"VIDEO LOSS" signal will be displayed, and the built-in
alarm buzzer will be triggered to sound.
    Channel Display Control
In "EACH" mode, you can use the following buttons to display
Full-screen format of each channel.
```

#### **Channel Display Control**

In "EACH" mode, you can use the following buttons to display Full-screen format of each channel.

I		

Channel 1 button: Full screen display of channel 1



Channel 2 button: Full screen display of channel 2



Channel 3 button: Full screen display of channel 3



Channel 4 button: Full screen display of channel 4

# **RECORD SELECT**

Please select desired video channel on this menu: the machine operation is same as "CAMERA SELECT" options.

Only the video in the selected camera will be recorded in DVR-400 harddisk



### **VIDEO RECORDING MODE**

DVR-400 provides 4 camera inputs. You can use channel buttons on the front panel to select specified

channel/camera for real-time video display and recording.



There are two kinds of recording mode: **EACH** mode (full screen mode) and **QUAD** screen mode. When you set to EACH mode, you can view the full-screen display of one specified channel. When you set to QUAD mode, quad-screen (**4-camera**) will be displayed.

Please use ∧, ∨ buttons of front panel to select mode and then enter ⊢ button to confirm the selection

### **RECORD FRAMRATE**

There are 9 different frame rate settings for operation: 30fps, 15fps, 10fps, 7fps, 5fps, 4fps, 3fps, 2fps, and 1fps. (Factory default setting: 30fps)

Please use ∧, ∀ buttons of front panel to select mode and then **enter** → key to confirm the selection



RECORDING FRAME RATE TABLE

• Note The higher the record frame rate is, the more natural look will be displayed on the screen when playing back. But the lower the record frame rate is, the more you can save the space on HDD. The following is the recording fps table for your reference.

Frame/S	econd	1	2	3	4	5	7	10	15	30
	1CH	1	2	3	4	8	7	10	15	30
EACH	2CH	0.5	1	1.5	2	2.5	3.5	5	7.5	15
MODE	3CH	0.33	0.67	1	1.33	1.7	2.33	3.33	5	10
	4CH	0.25	0.5	0.75	1	1.25	1.75	2.5	3.75	7.5
QUAD N	IODE	1	2	3	4	5	7	10	15	30

# **VIDEO QUALITY**

**V**Note

There are 3 different video quality settings for operation: Normal, Low, and High

Please use  $\land$ ,  $\lor$  buttons on the front panel to select video recording quality and then press the **enter**  $\leftarrow$  key to confirm the selection



DIFFERENT VIDEO QUALITY SETTINGS ON HDD CAPACITY

The higher the video quality is, the clearer images the unit plays. But the lower the video quality is, the more you can save the space on HDD. The following is the recording time vs video quality settings table for your reference.

Frame/S	econd	1	2	3	4	5	7	10	15	30
EACH	Н	733	366	244	183	146	184	73H	48H	25H
MODE	NORMAL	992	496	331	248	192	141	99H	66H	33H
	LO	115	576	384	288	238	153	115	76H	39H
QUAD	Н	556	279	185	139	111	80H	56H	37H	19H
MODE	NORMAL	763	382	255	190	152	110	76H	51H	25H
	LO	877	438	292	228	175	125	88H	58H	29H

The recording hours on 80GB HDD

## **RECORD SCHEDULE**

**RECORD SCHEDULE** menu in DVR-400 provides changing a recording schedule/type to meet the various

surveillance application demands.



Time format in DVR-400 schedule video recording is 24-hour format.

(T) Letter indicates recording.

(S) Letter indicates sensor recording. It means the unit starts recording as the attached sensors being triggered during this period.

(--) Recording is off during this duration.



#### SETTING EXAMPLE:

$00:00 \sim 7:00$ SENSOR RECORDING	00:00
------------------------------------	-------

- 07:00 ~11:00 RECORDING DISABLED
- 11:00 ~18:00 RECORDING
- 18:00 ~24:00 SENSOR RECORDING



SENSOR RECORDING INSTALLATION

**V**Note The unit provides 4 alarm inputs, which can be configured as normal close, normal open, motion detection +NC and motion detection+NO over "SENSOR SETUP" menu option. After the sensor configuration, please go back to " RECORD SCHEDULE" menu to enable sensor recording.

### **SUB MENU**

SUB MENU provides the flexibility of changing machine admin password, time /date setting, date format.

SUB MENU	
<ul> <li>PASSWORD CHANGE TIME SET AUDIO RECORD [ON] AUDIO MUTE [OFF] DATE DISPLAY MODE YYYY/MM/DD</li> </ul>	
PRESS (♠,♥), THEN (SELECT) PRESS (MENU) TO EXIT	

#### **PASSWORD CHANGE**

When entering "PASSWORD CHANGE" menu; a password change input menu will be displayed on screen

(note: machine default password is 111111)

When the new password is configured and accepted, DVR-400 will prompt message:

#### "PASSWORD changed!!!"

CURREN	NT PASSWORD:	
NEW	PASSWORD:	
CONFIR	M PASSWORD:	

The message will blink 5 times. Then the display goes back to SUB MENU.

If the password was not accepted, DVR-400 will automatically return to SUB MENU.

RONT	PANEL BUTTONS	S DE	FINITION
	means "1"	▼	means "6"
	means "2"	┙	means "7"
	means "3"	•	means "8"
	means "4"	Ш	means "9"
	means "5"	₩	means "0"

#### TIME SET

**TIME SET** menu offers DVR-400 date and hour.modification, the time and date settings will affect the recoded video files as well.



#### DATE DISPLAY FORMAT

DVR-400 provides **yyyy/mm/dd** or **dd/mm/yyyy** format for time display to meet application demands.



# HDD SETUP

#### **OVERWRITE ENABLED:**

If you choose "**YES**", DVR-400 will continue recording and overwrite the recorded data when HDD's space is full

If you choose "NO", the unit will stop recording while HDD's space is full

#### MASTER HDD SIZE:

Display the capacity of the installed HDD in DVR-400

#### MASTER HDD USED:

Display the percentage of HDD's capacity has been used

#### MASTER HDD FORMAT:

Erases all the recorded data in harddisk

The machine admin password is required before formatting, after the unit formatted, the message "HARD

DISK FORMATTED" will appear on the screen.

HARD DRIVE S	SETUP	
OVERWRITE ENABLED MASTER HDD SIZE MASTER HDD USED MASTER HDD FORMAT SLAVE HDD SIZE SLAVE HDD USED SLAVE HDD FORMAT	[YES] 40000MB 0MB N/A N/A	0%
PRESS (♠,❤), THEN (S PRESS (MENU) TO EXI	ELECT) T	

#### **SENSOR SETUP**

SEI	NSOR SETUP		
SENSOR REC	CORD TIME	05 00	
CHANNEL-1 CHANNEL-2 CHANNEL-3 CHANNEL-4	TYPE: NORMAL -OF NOT INSTALLED NOT INSTALLED NOT INSTALLED	'EN	
PRESS (▲, ` PRESS (ME	☞), THEN (SELECT) NU) TO EXIT		

#### SENSOR RECORD TIME:

Recording duration (in seconds) when sensor is triggered.

#### ALARM OUT TIME:

The ALARM TIME OUT controls how long (in second) the alarm sounds after being triggered.

#### SENSOR TRIGGER MODES:

DVR-400 provides 5 different modes to meet the various surveillance application demands:

- 1. Not installed.
- 2. Normal open.
- 3. Normal close.
- 4. Motion +N-C
- 5. Motion + N-O

In normal open mode, the cable line Connected between the sensor and the unit is cut off by an intruder, the unit starts recording.

In normal close mode, the cable line Connected between the sensor and the an intruder, the unit stops recording, cuts off unit.

# How to enable the Motion detection recording in DVR-400

SEI	NSOR SETUP	
SENSOR REC	CORD TIME 15 TIME 20	
CHANNEL-1 CHANNEL-2 CHANNEL-3 CHANNEL-4	TYPE: MOTION + N-C TYPE: MOTION + N-O TYPE: NORMAL CLOSE TYPE: NOT INSTALLED	
PRESS (♠,) PRESS (ME	☞), THEN (SELECT) NU) TO EXIT	/

#### STEP 1:

Please go to "SENSOR SETUP" menu

#### STEP 2:

Toggle the motion detection option.

#### STEP 3:

After the selection, please browse to **MAIN MENU** and go to "**RECORD SCHEDULE**" menu to enable the alarm setting, so that the motion detection video recording will operate properly.

PROGRAMMED RECORD	
+TTTSSTTTTTTTTTTTTTTTTT+                     0 3 6 9 12 15 18 21 24	
T: TIME S: SENSOR: NONE	
PRESS (♠,∀), THEN (SELECT) PRESS (MENU) TO EXIT	

# **NETWORK SETUP**

ACCEPT IP: select "YES" to allow the remote access, NO to disable the machine remote management.

N	IETWORK MENU	
ACCEPT CLIENT	[YES]	
MAC ADDRESS	00:30:4F:09:78:52	
IP ADDRESS	192.168.000.020	
SUBNET MASK	255,255,255,000	
GATEWAY	192.168.000.254	
PRESS (▲, ♥ PRESS (MEI	✓), THEN (SELECT) NU) TO EXIT	

Minimum requirements for networking video playback: CPU: 1 GHZ or above System Memory: 256MB or above VGA memory: 32MB OS: Window2000/XP

# **PLAYBACK Configurations**

If you'd like to view the recorded video files, the front panel buttons can be used to operate various playback functions.

Press ► button, then the playback time /events selection menu as the left figure appears on the screen. Or you can simply press ► twice to start playing directly.

### **CONTROL BUTTONS**



#### << Rewind Playing:

Press this button to play recorded video in reverse direction.



#### || PAUSE Button:

Press this button to pause the playback, or to advance one single frame upon pause mode.

#### ▶ Playback:

Press this button to play the recorded video.

You can either enter the specified time/date to playback or select the event or even view the playback over PC



>> (Fast forward button):

Press this button to play the recorded video in forward direction.

The unit provides three levels of fast forward playback speed:

>> 1: play one time faster (x1), press ">>" button.

>> 2: play two times faster (x2) than the normal play.

>> 3: play four times faster (x4) than the normal play.

**STOP:** Press this button to stop playing the recorded video.

#### • REC:

#### **DVR recording Hours on 40GB Hard Drive**

Recording	g Results in NT	SC format				
Video Suanal	Display	Video Quality	30 fps	15 fps	7 fps	1 fps
The of ordering	Format	viace duality				
		HIGH	18 Hours	36 Hours	72 Hours	540 Hours
	QUAD screen	NORMAL	24 Hours	48 Hours	96 Hours	720 Hours
NTSC		BASIC	29 Hours	58 Hours	116 Hours	870 Hours
NISC		HIGH	32 Hours	64 Hours	128 Hours	960 Hours
	Full screen	NORMAL	45 Hours	90 Hours	180 Hours	1350 Hours
		BASIC	56 Hours	112 Hours	224 Hours	1680 Hours
Recordin	ig Results in PA	AL format				
Video Suanal	Display	Vidoo Quality	25 fps	12 fps	6 fps	1 fps
VILLEO Suariar	Format	VILLED Quality				
		HIGH	19 Hours	38 Hours	76 Hours	475 Hours
	QUAD screen	NORMAL	24 Hours	48 Hours	96 Hours	600 Hours
DAL		BASIC	30 Hours	60 Hours	120 Hours	750 Hours
FAL		HIGH	31 Hours	62 Hours	124 Hours	775 Hours
	Full screen	NORMAL	45 Hours	90 Hours	180 Hours	1125 Hours
		BASIC	59 Hours	118 Hours	236 Hours	1475 Hours

# Chapter 4



# **DVR-400 Client Utility Administration**

# **DVR-400 client utility**

This DVR-400 allows system administrator to manage machine from a remote location to view live and recorded video over private network or the Internet connection. Also, you can capture the video from the unit and play the stored video later on.

## **Procedures of DVR Client utility**

- Please find the DVR\_Client.exe in the Utility folder on user's manual CD
- Copy the DVR utility folder to suitable folder, for example, C:\Program Files\PLANET\DVR\Utility
- Double-click the DVR\_Client.exe and the main screen will be shown.



• Click on "**Connect**" option on Main window to enter into "DVR Client connection manager", the following dialog window will be shown:

Not Co	onnected
Not Connected	
DVR IP: N/A	
Speed: N/A	
Connect	Close Window

• Please insert IP address 192.168.0.20 / password: 111111 to log in the remote DVR-400.

DVR Client Conne	ction Manager
Please Input Fol	lowing Information to Connect
DVR IP:	192 . 168 . 0 . 20
	🔽 Save IP Address
Password:	****
	OK Cancel

**DVR IP:** IP address of the remote DVR-400.

**Password:** The password is same password used for formatting the DVR-400 Hard Drive. The default value is **111111** 

**4** Note

If	the	DVR-400	insta	lled	beł	nind	fi	rewa	all	or	NAT	device,
ple	ease	reserve	ports	1433	37,	1433	88	for	COI	nmur	nicat	tion
puı	rpose	e.										

• When successfully connected, you would see" **Connected**" sign. This window also displays DVR-400 IP address and status of connection speed.

Connectu	on — — — — — — — — — — — — — — — — — — —	
	Conne	ected
Connecte	d	20
OVR IP:	192.168.0.1	20
	12022120202	

The remote video content will be shown in the main menu:



#### **DVR** control

The panel shown as the following figure operates exactly as the remote DVR operational button allows you to control remote DVR to live view, record and playback as well.

	VIEW	
deo Mode: ame Rate:	NTSC 29 fps	Volume 46 %
Channel Co	ntrol — — —	
OnAir •	CH1	
Ott	CH2	
Off	CH3	
Ott	CH4	
Ott .	Quad	Mut
DVR Contro	1	-0.9
REC	STOP	PLAY
REW	PAUSE	FF
Frame Rate (	Control	on tetra a
✓ Enable A	uto Adjustme	nt
		1.1.1

#### **Capture & Playback**

When you click "**REC**" button, it will start to record the incoming video on your PC hard disk. The DVR client creates " steam\_files" folder where the execution file is located. When the client is recording, the Capture &

Play status indicator would show the current status are "Recording".

	Recoding	,
ocal Recor	d & Playback	Control
		CONTRACTOR OF THE CASE
REC	STOP	PLAY

After recording is finished, click" Play" button to play the recorded video stream. Then you will see a stream file list of the video stream files previously captured.

#### **DVR** management

	e 1	1 1100 75 0		D. D. D. J. J.	UDD L.C.
Hard Disk h	nformation:	T HDD, 75 C	Bytes	Detailed	HDD Info.
Video Quality:		High			
Record Frame Rate:		30 frames/sec 👻			
Alarm On Duration:		Off			
Alarm Recor	d Duration:	5 sec			
Audio Recording:		Enable			
DVR Speaker:		Enable			
Inpu	t Channels:	CH1 ON	CH2 ON	CH3 ON	CH4 ON
Recon	d Channels:	ON	ON	ON	ON
	DVR Time:	2004 • 12 PM •	/ 05 ; 33	<ul><li>✓ /</li><li>✓ :</li></ul>	24 • 42 •
Record Sche	dule —				
12 AM	1 AM	2 AM	3 AM	4 AM	5 A M
ON	ON	ON	ON	ON	ON
6 A M	7 AM	8 AM	9 A M	10 AM	11 AM
ON	ON	ON	ON	ON	ON
12 PM	1 PM	2 PM	3 PM	4 PM	5 PM
ON	ON TIM	ON	ON	ON	ON
6 PM	/ PM	8 PM	9 PM	IUPM	11 PM
ON	ON	ON	ON	ON	ON

This option enable you to just remote DVR's operation setting: Video Quality, Record Frame rate, Alarm On Duration, Alarm record Duration, Input Channels, Record Channels, DVR system time setting and Record Schedule. All of settings operate as you do with DVR itself. Notice: For the record mode change can be made only on DVR, so the display shows the current DVR record mode on connection.

# Appendix A

# Specifications



Model	DVR-400			
Video Inpuit	NTSC/PAL			
Operating System	None			
Video Inpout	4ch composite			
Video Output	2ch composite + S-Video			
Vdieo Loop	4ch composite			
Audio Input	1ch RCA			
Audio Output	1ch RCA			
Built-in Buzzer	Yes			
Display Frame	120fps (NTSC) / 100fps (PAL)			
Recording Framer Rate	Max. 30fps (NTSC) / Max. 25fps (PAL)			
(Quad mode)				
Recording Frame Rate	Max. 7.5fps (NTSC) / Max. 6.25fps (PAL)			
(Each mode)				
Recording Mode	Continuous, manual, event programed			
Resolution (Display)	NTSC: 720*480 / PAL: 720-576			
Resolution (Recording)	NTSC: 320*112, 640*224 / PAL: 320-136, 640*272			
Compression Format	Motion JPEG (8-20K bytes/frane)			
HDD	Swappable HDD tray (Max. HDD capacity: 250GB)			
Search Mode	Time, date, camera			
Netwrok	TCP/IP			
Ethernet	RJ45			
Watch-dog	Auto-recovery capability after power			
Dimension	350 x 292 x 60 mm (W x D x H)			
Weight	4.15 kg (gross weight)			

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