Mobile, Digital Video Recorder - V304

Before you begin, check if you have everything needed:

Mobile DVR VG 304   Warranty   This User's Manual   Power adapter with cables   Remote control

If you encounter that one of the parts is missing, please contact producer or distributor to get missing parts.

Product Overview

FEATURES:

¾ **Real-Time Live Display and Record for all Channels**

¾ **Two Channel Audio Recording capabilities**

Embed OS, stand alone from PC   **Much function of screen display**   **Convenient Record mode**   **Built-in MPEG2 CODEC with configurable**   **quality**   **Easy to search and playback record**   **Support Pan Tilt Control Interface**   **IR and RS485 Remote Control**   **Support 4 channel Sensor Interface**   **Support Motion Detect Function**   **Chinese/English OSD**   **Big Capability Harddisk can be used**

SPECYFICATION:

Video Input	**4 Channel, IVp-p/75ohm**
Audio Input	**2 Channel, 2Vp-p/600ohm**
Video System	**NTSC/PAL**
Display Resolution	**NTSC:: 720x480 PAL:: 720X576**
Record Resolution	**NTSC:: 352X240 PAL:: 352X288**
Compression	**MPEG2**
Stream Rate	**6Mbps, 4Mbps, 2.7Mbps, l.5Mbps**
Record Speed	**For each channel, NTSC: 30 Frame/s. PAL: 25Frame/s**
Display Speed	**Each channel, NTSC: 30 fps, PAL:25fps**

Display Mode	**FULL. Dimidiate PIC, QUAD, PIP, POP, AUTO**
Sensor	**Four Channel Input**
Alarm Output	**tone Channel**
Video Loop	**Four Channel Video Loop Output**
System Output	**Two Channel Video, One Channel Audio**
Pan Tilt	**PELCO-P, PELCO-D, ALEC, LILIN**
Remote	**IR&RS485 Control**
Record mod	**eManual, Time, Motion & Alarm trigger**
Picture Adjust	**Brightness, contrast, Hue, Red Gain, Blue Gain**
Picture Process	**Freeze, Mirror, 2x Zoom**
Record Search	**Time Search, File Search**
Playback	**Normal Play, Pause, Fast Play, Slow Play, I Frame Play**
Harddisk	**> 250G**
Password	**8 Bit**
Backup	**Backup by special software (on pc)**
Power	**DCl2~24VorACl 10-220V Selectable**
Dimension	**215mmx315mm**

Amount of hard disk space used when recording:

DATA RATE	6Mbps	4Mbps	2.7Mbps	1.5Mbps
24H	*64.8GB*	*43.2GB*	*29.2GB*	*16.2GB*
48H	*129.6GB*	*86.4GB*	*58.3GB*	*32.4GB*
72H	*194.4GB*	*129.6GB*	*87.5GB*	*48.6GB*
96H	*259.2GB*	*172.8GB*	*116.6GB*	*64.8GB*
120H	*324.00GB*	*216.0GB*	*145.8GB*	*81.0GB*
144H	*388.8GB*	*259.2GB*	*175.0GB*	*97.2GB*
1 week	*453.6GB*	*302.4GB*	*204.1GB*	*113.4GB*

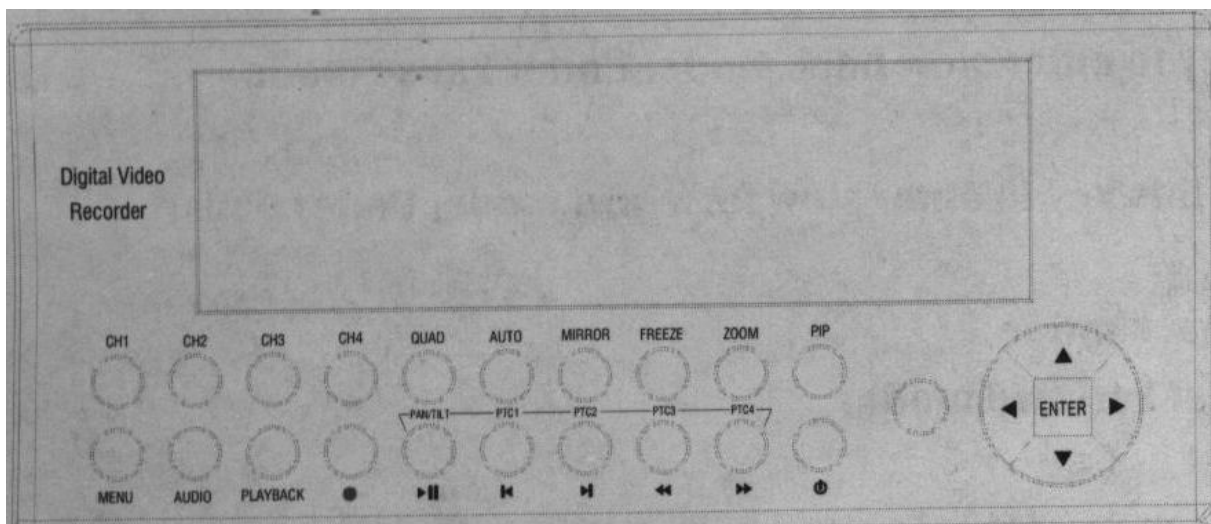|				
2 week	*907GB*	*604.8GB*	*408.2GB*	*226.8GB*
3 week	*1360GB*	*907.2GB*	*612.4GB*	*340.2GB*
4 week	*1814.4GB*	*1209.6GB*	*816.5GB*	*453.6GB*
30 days	*1944.0GB*	*1296.0GB*	*874.8GB*	*486.0GB*

INSTALLATION:

Use the brackets to fix the DVR;   Connect Video & Audio Cable to DVR;   Install the harddisk to mobile rack, and lock it;   Connect to the power; *   Turn on the power switch, and then system

start to work;   System initialize, the system ask to format if the harddisk didn't format;   If system don't find the usable harddisk, the RECORD and PLAYBACK are no effective;   After initialize, system will enter QUAD Mode;   You can control the DVR by press key and menu,

if system start-up successfully.

*** This DVR have three type of power, DC12-24V AC 10-220V or both DC 12-24V and AC 110-220V. Please choose the power module when you buy.
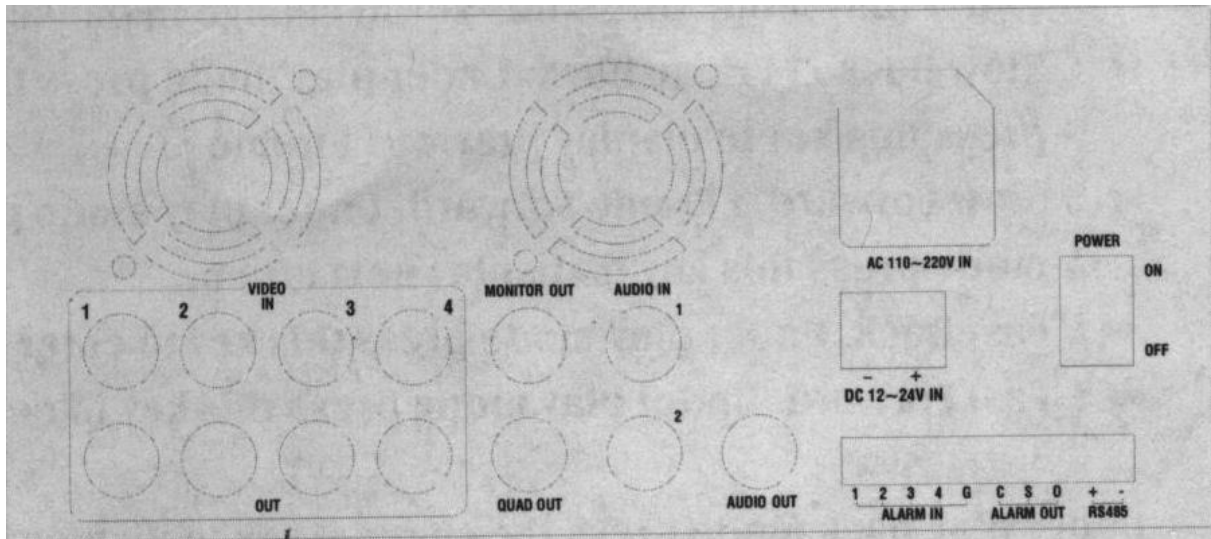
OPERATION:

Front Panel Keypads and Back panel Connections

FRONT

BACK

KEYPAD OPERATION:

Display Operate Key:

AUTO: Auto switch display mode QUAD:
QUAD display mode

CH1: Full picture display of channel 1CH2: Full picture display of channel 2 CH3: Full picture display of channel 3 CH4: Full picture display of channel 4

FREEZE: Picture Freeze function. Press this key to freeze the current channel under FULL display mode;

Press this key and channel key to freeze corresponding channel under the QUAD mode MIRROR: Picture Mirror function. Press this key to get mirror image of the current channel under FULL display mode;

Press this key and channel key to get mirror image of corresponding channel under the QUAD mode ZOOM: 2x Zoom function. Choose the zoom area using the direction keys, andpress ENTER key to zoom.

This function only active in FULL display mode4 PIP: Repeat to press this key for the different PIP mode
QUAD->POP(Picture On Picture)->2PlP(Two Sub Picture in One Main Picture)-* I PIP(One Sub Picture in One Main Picture)->Dimidiate Picture->QUAD

Under POP mode(one main picture, three sub pictures), press anychannel
to change the main picture.

Under 2P1P mode one main picture, two sub pictures), press ENTER key change operatingwindow;Press channel key to change the picture of the current window; Press the direction key tochange the position of the sub window.

Under I PIP mode(one main picture, one sub picture), Press ENTER key to change operatingwindow;Press channel key to change the picture of the current window; Press the direction key tochange the position of the sub window.

Under Dimidiate Picture mode, Press ENTER key to change operating window; Press channelkey to

change displaying channel;

Record Operation Key:

Under real time display mode, press this key to enter manual record mode in forcing. Press this key again to exit the manual record mode.Under the playback mode, normal record mode, or device have no active harddisk, this key isno effective.

Playback Operation Key:

PLAYBACK: Switch the real time display mode and playback mode. If there is no active harddisk, this key is no effective.

MI : Play / Pause. Under idle mode press this key, the device will search the oldest record and play automatically. Under play mode press this key to change to pause mode. H : Slow Back / I Frame Back. Under play mode press this key to enter slow back mode; Under Pause mode press this key to display previous 1 frame. M : slow Forward

Frame Forward. Under play mode press this key to enter slow forward mode; Under pause mode press this key to display next I frame.

Fast Back. Under play mode press this key to enter fast back mode.

Fast Forward. Under play mode press this key to enter fast Forward mode.

Under play back mode press the channel key to display Full picture of the corresponding channel, press the QUAD key to display QUAD picture. This system support nine type of play speed: l/8x, i/4x, l/2x, lx, 7x, 15x, 30x, 45x,60x.
AUDIO Switch Key - Switch the audio channel 1 or channel 2.

Menu Key
MENU: Under the real time display mode press this key, enter the main menu mode; Under play back mode press the key enter record search menu it is necessary to input password before entering main menu if the systemhas been set password; Under menu mode press this key to exit operating menu.

Power Off key
Under the real time display mode press this key, the device will ask whether close the system, select "yes" to close the system. Don't shut off power until the screen display "PLEASE TURN OFF THE POWER".

Pan Tilt, Control Key
PTMENU: under the real time display mode press this key to switch to pan tilt control mode, and notice about the operation on the screen. Real-Time Display-*PT INDEX: x->DIRECTION->ZOOM&FOCUS->IRIS Addition-*AUTO CTRL->AUX CTRL->PRESET PG(x)->Real-Time Display
PT INDEX: 1~4, Press PTCI-PTC4 to select the Pan Tilt which youwant to
control, DIRECTION: Press PTCI - PTC4 to control the rotation of the pan tilt.
ZOOM&FOCUS: PTCI: FAR PTC2: NEAR PTC3: TELE PTC4: WIDE
1RISADJ: PTC3: Open PTC4: Close AUTO CTRL: PTC3: AUTO ON
            PTC4: AUTO OFF AUXCTRL: PTC1-PTC4: AUX1-4 ON/OFF
PRESET PG x: Set the preset point of the speed dome, The device can support 256 points, which

divide into 64 page, Press PTC3. PTC4 change current page.Press PTCl first, and then press PTC1 —PTC4 to save the four preset point of the current page. Press PTC2 first, and then press PTC1-PTC4 to loadthe four preset point of the current page.

MAIN MENU:

MAIN MENU - Press " (↓↑←→) " to Select, Press "ENTER" to enter a submenu.

MAIN MENU	
SYSTEM	HARDDISK
DISPLAY	PAN TILT
CHANNEL	SECURITY
ALARM	EVENT
RECORD	LANGUAGE

→) " to change value.

SYSTEM (SETTINGS)
SYSTEM DATE xx-xx-xx
SYSTEM TIME xx-xx-xx
DATE FORMAT CHINA / AMERICA / EUROPE
LOOP OUTPUT ON/OFF – Video Loop
VIDEO SYSTEM PAL / NTSC
REVERT TO DEFAULT YES / NO

Select "REVERT TO DEFAULT" , and then press ENTER key, system will ask for confirm. Choose "YES" to set all parameter to default value, Choose "No" to cancel command

DISPLAY SETTING -Set system display information, Press (↓↑) to Select, Press (←→) to change value.

DISPLAY (SETTING)
SYSTEM DATE ON / OFF
SYSTEM TIME ON / OFF
BORDER DISPLAY ON / WHITE / GRAY / BLACK
CHANNEL NAME ON / OFF
RECORD TIME OFF / TOP / MIDDLE / BOTTOM / ALL CHANNEL
SWITCH TIME 1~99 Secretary

CHANNEL SETTING - Adjust the parameter of each channel, Press to Enter to Select, Press (↓↑←→) to change the value.

CHANNEL (SETTING)

CHANNEL 1~4 – camera CHANNEL NAME: xxxxxxxx	
DISPLAY – ON / OFF	BRIGHT 0~255 default 128
RECORD – ON / OFF	CONTRAST 0~255 default 84
AUTOSWITCH – ON / OFF	RGAIN 0~255 default 98
XOFFSET 0~15	BGAIN 0~255 default 98
YOFFSET 0~15	HUE 0~255 default 128

Choose "NAME" , and press "ENTER" to enter channel name modify mode. Each channel's name include 8 character, press " ♦ " to select character, press (←→) to modify, press "MENU" to exit channel name modify mode.
ALARM SETTING -Set the alarm information of each channel. Press (↓↑) to Select, Press "ENTER" to enter sub menu.

ALARM (SETTING)
MOTION DETECT
VIDEO LOSS
SENSOR ALARM

MOTION DETECT - Set motion detect information for each channel, Press (↓↑) to Select, Press (←→) to change.

MOTION AREA SETTING -
System define 192-area (16x 12) detection enable/ disable for each input channel; Press (↓↑) to choose area; Press ENTER to change enable/disable. " • " means enable detect, "X "means disable detect.

Choose "motion area setting" and press "ENTER" to enter motion area setting sub menu.

MOTION DETECT
CHANNEL 1~4 - camera
ALARM DETECT ON / OFF
TRIGGER DISPLAY NO CHANGE / FULL / POP
TRIGGER RECORD ON / OFF
SENSITIVITY 0~255 default: 15 - sensitivity
MOTION AREA SETTING

VIDEO LOSS -
Set video loss alarm information for each channel, Press (↓↑) to Select, Press (←→) to change.

VIDEO LOSS
CHANNEL 1~4 – number of camera
ALARM DETECT ON / OFF – alarm system armed / disarmed
BUZZER ON / OFF
ALARM OUTPUT ON / OFF
TRIGGER RECORD ON / OFF

SENSOR ALARM -
Set sensor alarm information for each channel, Press (↓↑) to Select, Press (←→) to change.

SENSOR ALARM
CHANNEL 1~4 – *camera number*
ALARM DETECT ON / OFF
BUZZER ON / OFF
ALARM OUTPUT ON / OFF
TRIGGER DISPLAY – *NO CHANGE / FULL / POP*
TRIGGER RECORD ON / OFF
SENSORMODE *NORMAL OPEN / NORMAL CLOSE*

PLAYBACK MENU – it provides easy access to chosen video sequence. Use (↓↑) to choose from menu and (←→) to change.

PLAYBACK MENU
SEARCHMODE – *SEARCHBYTIME / SEARCHBYFILE*
SEARCHTIME – *xx-xx-xxxx-xx:xx*
SEARCHHDD - *HARDDISK1 / HARDDISK2*
RECORDTYPE - *xxx CHANELL ALL / 1~4*
START SEARCH

7. Remote IR

• The key function of the IR remote is the same as the front panel.