

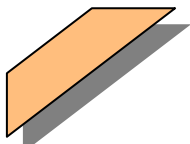
USER'S MANUAL

4CH STAND ALONE DVR

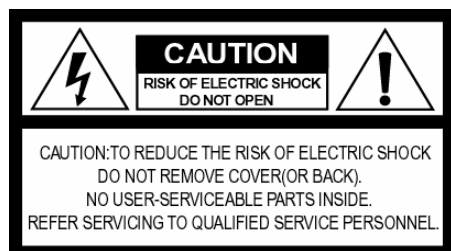
D3

English

WARNING AND CAUTIONS



CAUTION : TO REDUCE THE RISK OF FIRE OR ELECTRONIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. DO NOT INSERT ANY METALLIC OBJECT THROUGH VENTILATION GRILLS.



Explanation of Graphical Symbols

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninstalled "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

USER OF THE SYSTEM ARE RESPONSIBLE FOR CHECKING AND COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND STATUTES, CONCERNING THE MONITORING AND RECORDING OF VIDEO AND AUDIO SIGNALS . OUR COMPANY SHALL NOT BE HELD RESPONSIBLE FOR THE USE OF THIS SYSTEM IN VIOLATION OF CURRENT LAWS AND STATUTES.

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I. INTRODUCTION

1. Before Usages

This manual is help to understand how to use GN-704JLC for all users. Also, must be read carefully before use it. All users must follow the steps this manual before installation hardware and set up the menu.

2. Important Safeguard and Warning

Warning

1. Use the adaptor, which is supplied or recommended by the supplier. It may cause fire.
2. Do not dismantle or assemble the product. It may cause malfunction or fire.
3. Do not touch the product with wet hands. It may cause malfunction or fire.
4. Matters must be ensured to a professional for installation. It may cause malfunction, electric shock or fire.
5. Consult the place of purchase if the need for installation arises. Delinquent installation may be the reason for malfunction, electric shock or fire.
6. Ground applies to video products equipped with a 3-wire grounding type plug having a third (grounding) pin. This plug only fits into a grounding-type power outlet. If grounding is not done, it may cause malfunction or electric shock.
7. Ground connection must not touch gas pipe, water pipe or telephone line. If grounding is not done properly, it may cause electric shock.
8. Prevent metallic foreign substance inside the product. It may cause malfunction or electric shock.
9. Do not spray insecticide or flammable spray while driving. It may cause fire.
10. Prevent water from entering inside electrical parts. Clean with a dry towel or malfunction or electric shock could result.

Caution

1. Use the power cord, which is supplied or recommended by the supplier. The internal fan rotates at high speed and may cause an accident.
2. Do not drop, give strong vibration, or shock to the product. It may cause malfunction.
3. The air inhale on each sides and the fan of the back panel must not be blocked during installation. The internal temperature of the product would be greater than allowable and could cause malfunction or fire.
4. Do not touch the product or the power cord when there is thunder. It may cause electric shock.
5. Do not install the product near or on top of heating source. The internal temperature would be greater than allowable and could cause malfunction or fire.
6. Do not install the product on inclined or unstable location or where vibration could be committed. It may cause malfunction.
7. Do not remove or insert CF-Card before turn off the electric power.
8. Must use CF-Card at least 1G or more.
9. Manufacturer or seller never response any problem related CF-Cards.

II. FUNCTIONS

Our 4 channel DVR (Stand Alone Digital Video Recorder) for CF-card interface is a Digital Security System designed to record/retrieve up to 4 channel video streams at the same time. It adopts a digital image compression technology to compress the input channel video streams, and uses a CF-memory card to record the compressed video stream.

GN-704JLC display 1/4 channels partition on a screen by user's control. It can be surveillance 24 hours 7 days. It will be applied car or regular users.

All functions are;

- * **Triplex (Record / Playback / Live)**
- * **Real Time Quad Display**
- * **High Quality Low Cost Simple Version System**
- * **Stand Alone Type (Non-PC, Non-OS)**
- * **Full / Quad Display Mode Selectable**
- * **Programming the MENU in OSD (On Screen Display)**
- * **Built-in Time / Date / Title Generator**
- * **Motion Detection Function (230 Lists)**
- * **Motion / schedule recording**
- * **Quick Search : Time**
- * **CF-Memory Overwrite**
- * **MJPEG Compression**
- * **Remote Control**

III. SPECIFICATION

Spec. Details		704JLC	
System Type		NTSC	PAL
Video Signal	Input	Vp-p 75 Ohm, Input RCA (4Ch)	
	Output	Vp-p 75 Ohm, Output RCA	
Audio	Input / Output	2 X RCA (1CH Input, 1CH Output)	
	Recording Mode	Mono PCM	
Display	Display Frame	120 FPS (Total)	
	Display Resolution	720 X 480	720 X 576
	Screen Split Mode	Full, Auto, Quad	
Triplex Mode		Duplex (Simultaneous Recording/Playback/Live)	
Recording	Video Compression	Real-time full duplex M-JPEG codec core	
	Video Resolution	720 (360) X 480 (240)	720 (360) X 576 (288)
	Recording method	Continuous, Scheduled, Event (motion detect)	
	Recording FPS	120 (30) FPS	PAL :100 (25) FPS
	Image File Size	3 ~ 25 KB	4 ~ 27 KB
	External CF Memory	MLC, SLC Type of CF Memory Card supported	
Remote access through Internet		N/A	
Playback	Playback mode	Live & Playback, Playback	
	Playback Screen Mode	Full, Quad, Split	
	Search	Search by Date/ Time List, Event List	
	Zoom Mode	N/A	
Alarm Control	External Alarm Input	Alarm Input : Terminal Block 1	
	Alarm Output	N/A	
Network	Protocol	N/A	
	Resolution		
	Remote Control		
	Browser		
	Recording		
Data Backup		N/A	
Others	Remote Control	IR Remote Control	
	Power	9V ~ 35V DC (Locking wafer type)	
	Dimension	Set: 159X105X28 (mm), Board: 138X91 (mm)	
	Weight	0.7KG	
	Certification	CE, FCC	

IV. OPERATION

4-1 FRONT PANEL

1. LED

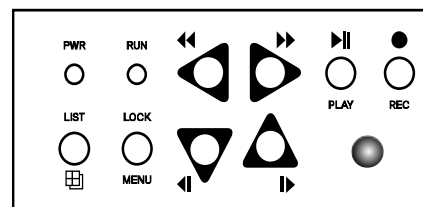


It shows status of each operations.

PWR LED : This LED shows status of DVR is power ON/OFF..

RUN LED : This LED is flash when DVR is operating (Play or Record)

2. Buttons



Front Panel have 8 buttons which have multi functions applied by modes. Must be careful how to use all buttons by different situations. It will explain special key with any actions.

1) REC (Record)

When you press this key, DVR will start recording and if you press one more, Recording will be stopped.

While you are watching live image, you can start recording by pressing this button. And if you want to stop recording, simply press this button again.

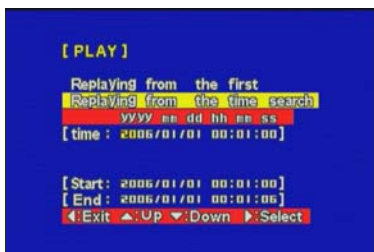
2) PLAY (▶||) (Play / Pause)

Press this button (▶||). it will be displayed recorded time, and user can pick time after can play with play button. However, press one more time pause played screen.

When you press (▶||) button, you will see below OSD (On Screen Display) First Display and TIME search.

When you see these modes, PLAY(▶||) button has not only time search function but also simple play function.

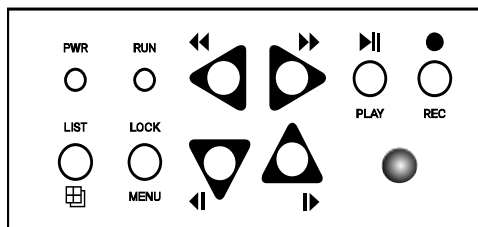
IV. OPERATION




If you want simple play from the beginning, then choose CF-card FIRST DISPLAY by (▶, ◀) button then press PLAY(▶||) button.

Once you have located an arrow mark at the mode (CF-card FIRST DISPLAY), press PLAY (▶||) button. Now you can see 8 different screens: the first 4 pictures are Live image screens(screen L1, L2, L3 and L4) and the last 4 pictures are previously recorded image screens(screen P1, P2, P3 and P4). And on top of the screen you can observe time being

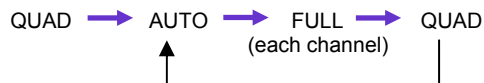
changed accordingly to the recorded time.



3) DISPLAY MODE & LIST BUTTON

This button enables users to change different screen settings such as Quad(4 screens) and full screen. For instance, when your screen shows 4 channels of different screen, Then press this button ( MODE button) to change different screen. Factory setting is AUTO mode,

AUTO mode: Showing each camera channel one by one with Full screen. Also, can change time rate with up / down button 1 to 99 second.



When you press and hold this button 3 second, screen will be show all list for alarm and motion detection time and date.

M in circle mean motion detection list and A in circle mean alarm detection list. This list shows up to 230 events.



IV. OPERATION

4) MENU (LOCK) Select button & (▲, ▼, ◀, ▶) Button



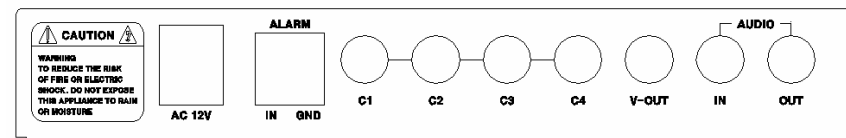
When you press Menu button, you can see “ SETUP MENU “ with 4 different options. You can adjust the setting by pressing MENU button.

when you go in to one certain mode, you can navigate each mode by pressing “MENU” button. but if the arrow make is on the EXIT and you will go out from this mode.

In play mode, 4 arrow buttons are changed to different functions. ▶▶ (▶) button is fast forward option which is playing speed to X1, X2, X4, X8 and X16 for each time pressing the button, and ◀◀ (◀) button is fast backward option which is same as fast forward option but it will be played to back. ▶ and ◀ are back to normal speed from fast options.

When you press and hold this Menu button 3 second, it will be locked all key buttons which mean any buttons not working if you press any buttons. However, press and hold 3 second one more time, it will be unlocked all key buttons.

4-2 REAR PANEL



1. CAMERA INPUT

Connect DVR to camera(s). Each channel port indicates a single camera connection. It has total 4 camera RCA connection ports.

2. VIDEO OUT

Use this port to connect DVR to the monitor.

3. AUDIO IN AND OUT

Use these port to connect DVR to the microphone and speaker. Connect “AUDIO IN” for microphone and “AUDIO OUT” for a speaker connection.

4. ALARM IN AND GROUND

This is a alarm input terminal in case you need to install a single alarm device.

5. POWER

Free volt for 12 volt or 35 volt detect with automation. Approximately, this DVR use less than 1A.

IV. OPERATION

4-3. SETTING MENU

1. MENU (Function Selection)



When you press the menu button. You could control the 4 function mode setting.

(The Press ◀, ▶ button to select menu about 4 functions) But press up/down button will be moved to other functions. Press MENU button again, it will be exit the Menu screen.

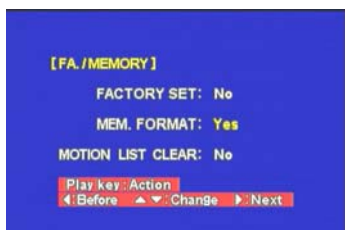
2. TIME / DATE



Press Adjust Time. Press ◀, ▶ to move year, date, time and press ▲, ▼ to adjust.

Time Display: Press Yes or No to select Time display on the screen.

3. FA /MEMORY (Initialize CF-card)



Initialize all settings and CF-card : Press ▲, ▼ to initialize the settings , CF-card and ,motion list. If you want to delete all info and data, choose Yes line of Factory Set. CF-card format mean deleting only data. Also, Motion List Clear mean delete Motion list only.

IV. OPERATION

4. RECORD



① **Image quality:** Press ▲, ▼ to Adjust 3 level of image quality. (High, medium, low)

⇒ High image quality can't be saved long enough due to HDD recording mode.

② **Speed:** Press ▲, ▼ to adjust 6 level of camera speed 30/ 15/ 7.5/ 5/ 2.5/ 1 frames per second.

③ **MODE :** Press ▲, ▼ to select record type which mean if you choose 'FULL', it will be recorded with D1 type. It is recording each channel 1 by 1 each frames up to 30 frames per second that is why DVR has total pictures each channels but it has quarter of 30 frames actually. If you choose 'QUAD', it will be recorded with CIF type. It is recording all channels by quad type. So, it has total picture of 4 channels 30 frames per second but it has half size of picture frames only quad type of pictures.

④ **AUDIO :** Press ▲, ▼ to select Yes or No. It mean user want to use audio or not.

⑤ **ALARM :** Press ▲, ▼ to select Yes or No. It mean user want to use Alarm or not.

⑤ **Event recording Time :** Press ▲, ▼ to set the motion recording time. It can be set 1 to 99 Second

5. MOTION (Set motion mode)



1. Camera: press ▲, ▼ button to set camera channel and transformation.

2. Sensitivity: Press ▲, ▼ to adjust sensitivity (High, medium, Low)

3. Press ▲, ▼, ◀, ▶ to set the motion Partition (O,X) and after selecting camera channel.

IV. OPERATION

※ Precaution

1. HDD ERROR



When CF-card error happened, the "ERROR" pop up on the screen. 4 screen partition played and no other function works.

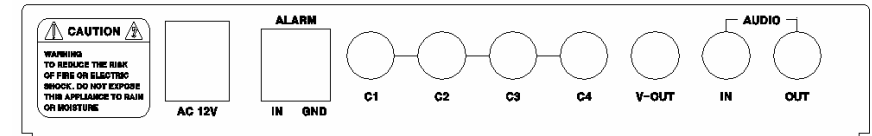
※ Please check CF-card connectivity or CF-card defect.

2. ⓧ Pop up

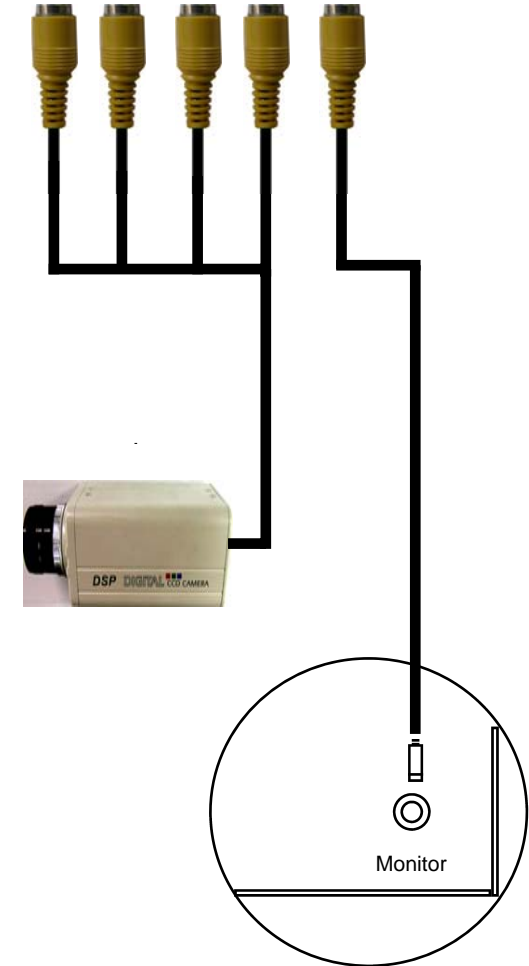


When there are no saved recording data, ⓧ pop up on the screen if using the remote control to search the recording data.

V. SYSTEM CONNECTION



Connector to DC12V,3A



MONITOR (BACK VIEW)

REMOTE CONTROLLER

The picture is the Remote Controller for this DVR, and with this remote controller, you can get into the SETUP MENU. As you can see, remote controller can be divided into three different sections:

1. Top part is DVR operation with cursor movement which user can change SETUP MENU.
2. Middle part is number key which user can change to see full screen of each camera.
3. Bottom part is PAN/TILT control of a speed dome camera. This remote controller is designed to work for both DVR and Speed dome camera. By using buttons in side of bottom black box, you can control a speed dome camera without help of a speed dome controller. However, GN-704JLC doesn't have PAN/TILT control function.



- Recording button from left.
Play button from right.
Motion list button right.
Rewind, Fast forward from left
Menu/Stop button from middle
- Camera 1,2,3,4 button and
Quad/Full display button
- PAN/TILT control of a speed dome