# **4-CH Cab Anti-Vibration DVR**

# **User Manual**

Ver. 1.0.0



Model number: 30010713

The reliable non-OS base Digital Video Recorder P/N number: F40071000 Thank you for purchasing our Video Recorder System. Please read this manual

before installation.

For customer support, contact your dealer, keep your Invoice for further support.

**Do not open/modify** the device, as it may cause damage to the unit and void the Warranty. For internal repairs, consult your dealer or an Authorized Service Center.

**Do not use** any accessories other than what comes with the unit otherwise, it would void the warranty.

**Protect from humidity.** Do not put it in water and be careful to protect it from rain, sea water, or high humidity environment etc.

# **Protect from high temperatures**

To avoid damage or mis-operation of the device, only use in temperature of  $0 \sim +40^{\circ}$ C.

**Do not bring** the device suddenly from a hot to a cold place, or vice versa. This may cause damaged to the inside of the unit by creating condensation.

# **EU Environmental Protection**

The symbol of crossed-out garbage shows that this product should not be treated as household waste, and it falls into the category of *electric /electronic* equipment for recycling. This electronic device should not be disposed in a regular trash. We strongly advice you to contact related authorization before you dispose this product.

# Package Content



4ch Cab DVR x1



Camera cable with jack \*4



SATA HDD cable x1



HDD power cable x1



Remote controller x1



Screw \*4



Shock Proof Rubber with screws x2

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# Quick Guide

(Orange & White wire)

- Step 1: Connect Camera signals: Connect camera signal cable to 8-pin micro-fit signal jack for external camera. For camera 1, you can connect internal camera cable to 2-pin Molex and connect power cable to 2-pin Molex power jack (A), (B), (C), or (D)
- Step 2: Storage: Either insert SD card into SD card slot or connect SATA cable with HDD
- **Step 3: Connect the Power**: Plug Mini-fit into Power input jack, and Connect Mini-fit wire with AC adapter (#30010712) or with power supply directly (#3001 0710, #30010711)
- **Step 4**: **Power on the unit**: For #30010710: Short Power switch to power on the device and it will start to work according to the schedule. For #30010711 and #30010712, please close the case to power on the unit and start to work according t o the schedule.



# #30010710-Board Introduction

(Green wire)

(Brown & White wire)

(Brown wire)



# Hardware Installation

# **1.1 Casing Installation**



Fasten four screws into the holes

\* Install the DVR on the location you desire such as the footwell, truck, bus ceiling, UN and so on

# **1.2 Camera Installation**

External camera cable connection



1. Plug the connector of Cam 1 to the 8-pin jack on the back of device. Our connector of camera is 8-pin single cable design.

2. Connect RCA (Audio in)/ BNC (Video in)/ Power out (DC 12V 300mA) to camera.

3. External trigger

Normal close (NC): lead to short circuit and to activate the trigger Normal open (NO): deactivate the trigger

# 1.3 Storage

# 1.3.1 SD Card Storage



Insert the SD card into SD card slot \* Notice that the DVR will format the SD card if the SD card has not been used by DVR before or DVR cannot recognize the SD card. Therefore, please backup the content in the SD card before inserting to DVR.

**HDD** Installation

# 1.3.2 SATA Hard Disk Storage



Loosen the screws in (A) and (B)

# (3)



Connect HDD and Shock Proof Rubber with screw (A, (B), (C), and (D)



Open the casing to place HDD







Insert SATA cable (A) to slot (B) in HDD Put HDD into the HDD tray



Connect HDD power cable

- \* (A) for 12V
- \* <sup>(B)</sup>. <sup>(D)</sup> for Ground
- \*  $\bigcirc$  for 5V

\* Either HDD or SD card can work at the same time. HDD is first priority if HDD is installed on device.

# HDD Compatible Chart

The following hard disk models have gone through the test with DVR 30010713.

Brand	Model number	Size	Interface	Capacity
	MJA2500BH	2.5"	SATA	500GB
	MJA2320BH	2.5"	SATA	320GB
	MJA2250BH	2.5"	SATA	250GB
Fujitsu	MHZ2320BH	2.5"	SATA	320GB
	MHZ2250BH	2.5"	SATA	250GB
	MHZ2160BH G2	2.5"	SATA	160GB
	MHY2080BH	2.5"	SATA	80GB
Seagate	ST96812AS	2.5"	SATA	60GB

# **1.4 Power Installation**



- (A) Extra power supply: DC 12V 200mA
- <sup>(B)</sup> Power out external camera: DC 12V 300mA
- $\ensuremath{\mathbb{C}}$  Power out SATA HDD: 5V / 12V
- **(D)** Power supply : white  $\rightarrow$  power in (+)

 $black \rightarrow ground$ 

# **Power Supply**

Recommended power input: 16~30V (\* the max. power surge protection up to 40V)

Power Input	Connector Jack	Power Output
15V	© For SATA HDD: 5V	5V
۲	© For SATA HDD: 12V	12V
	(A) Extra power supply: DC 12V 200mA	12V
30V	<sup>(B)</sup> For external camera: DC 12V 300mA	12V
	© For SATA HDD: 5V	5V
12V	© For SATA HDD: 12V	9.6V
	(A) Extra power supply: DC 12V 200mA	9.6V
	<sup>(B)</sup> For external camera: DC 12V 300mA	9.6V

# IR Remote Controller





	Button	Function	Description	
Password		0000	Universal password: UP/UP/DOWN/D	OWN/+/+/ -/-
Live mode	1	Camera 1	Camera 1 full screen display	Group: Live, No Key Lock
	2	Camera 2	Camera 2 full screen display	
	3	Camera 3	Camera 3 full screen display	
	4	Camera 4	Camera 4 full screen display	
		Quad	Quad display mode	
	SEQ	Sequence	Auto sequence display mode	
	0	Zoom	Digital Zoom, x2	
		POP	Picture On Picture * In POP mode, press   to change channel	

	0	Lock	Key lock * Please refer to "Key Lock Setting" in OSD Menu and change mode to "ON". In live mode, press <sup>6</sup> to get it function	
	MENU	MENU/Exit	Menu mode or Exit to last page	
		UP		_
	V	DOWN		-
MENU	<	LEFT		Group: KEY
mode	•	RIGHT		LOCK
	OK	Confirm		-
	+	Plus	Adjust Value	-
	Ξ	Minus	Adjust Value	_
		Search	Search mode	
		Pause	Pause playback, press again to play frame by frame	-
PLAY	0	Сору	Press Copy button after active pause when in playback mode, system will copy file to USB Device. * Currently, the remote controller does not support copy function.	Group: KEY
		Rewind	Rewind playback	LUCK
	Þ	Fast forward	Fast forward play 2/4/8 times	
		Fast rewind	Fast rewind play2/4/8 times	
		Stop	<ol> <li>Stop playback</li> <li>Stop backup</li> </ol>	

# **OSD** Operation

### Display Information (SD card inserted)





### (SD card not inserted)



# Display Information (Camera 1)



- 1. 83%: SD Card free capacity
- 2. FS: Full Stop (appear only when SD card is inserted)
- 3. MP4L: compression format
- 4. 8F: frame rate
- 5. A1: audio 1
- 6. REC: recording mode
- 7. CONT: continuous recording mode
- 8. ID 12345: DVR ID
- 9. 2008/07/31: date
- 10. 12:14: 50AM: time
- 1. 83%: SD Card free capacity
- 2. OW: overwrite (appear only when SD card is inserted)
- 3. JEPG: compression format
- 4. 8F: frame rate
- 5. A1: audio 1
- 6. REC: recording mode
- 7. CONT: continuous recording mode
- 8. ID 12345: DVR ID
- 9. 2008/07/31: date
- 10. 12:14: 50AM: time
- 1. 00%: SD Card free capacity
- 2. MP4L: compression format
- 3. 8F: frame rate
- 4. A1: audio 1
- 5. CONT: continuous recording mode
- 6. ID 12345: DVR ID
- 7. 2008/07/31: date
- 8. 12:14: 50AM: time
- 9. SDC UNLOCK: SD card not inserted
- 1. CH 1: Camera channel
- 2. 00%: SD Card free capacity
- 3. MP4L: compression format
- 4. 8F: frame rate
- 5. A1: audio 1
- 6. CONT: continuous recording mode
- 7. ID 12345: DVR ID
- 8. 2008/07/31: date
- 9. 12:14: 50AM: time
- 10. SDC UNLOCK: SD card not inserted

# **OSD Menu Structure Tree**



### MENU OPERATION



The title of the camera can be changed from 0~9.

Press to change value from 0 to 9
 Press to change cursor



COLOR SE	TUP
CAM	01
BRIGHTNESS	32
CONTRAST	32
SATURATION	32
HUE	32
GAIN	32
	(1-63)

VIDEO	MASKING
СН	VISIBLE
CAM1	ON
CAM2	ON
CAM3	ON
CAM4	ON









### II. DATE/TIME SETTING

#### DATE/TIME SETTING

DISPLAY FORMAT:YYYY/MWDD TIME FORMAT: 12H DISPLAY POSITION: BOTTOM RIGHT ADJUST DATE/TIME 19 : 13 : 56 : 2009 / 06 / 26 HOUR MIN SEC YEAR MON DAY

### III. STORAGE SETTING

#### STORAGE SETTING

INFORMATION REC MODE: FULLSTOP FORMAT

# 1. Press to select item

- 2. Press **WW** to change value
- \* Display Format: YYYY/MM/DD, MM/DD/YYYY, or DD/MM/YYYY.
- \* Time Format: 12H/ 24H
- \* Display Position: Bottom right/ Top left





C: CONTINUOUS MODE M: MOTION MODE

#### CONTINUOUS MODE

RECORD QUALITY: SUPER
RECORD SELECT
CH01: ON
CH02: ON
CH03: ON
CH04: ON
FRAME RATE SETUP

- RECORD QUALITY: Press to change mode from SUPER (Best), EXTRA, to HIGH
   RECORD FPS(recording frames per second)
   Frame rate adjustable by user as follow :

NTSC		
4 CH	JPEG 2/4/8/15/30/60	MP4L 2/4/8/15/30/60
3 CH	JPEG 2/4/8/15/30/60	MP4L 2/4/8/15/30/60
2 CH	JPEG 1/2/4/8/15/30/60	MP4L 1/2/4/8/15/30/60
1 CH	JPEG 0.5/1/2/4/8/15/30/60	MP4L 0.5/1/2/4/8/15/30/60
PAL		
4 CH	JPEG 2/6/12/25/50	MP4L 2/6/12/25/50
3 CH	JPEG 2/3/6/12/25/50	MP4L 2/3/6/12/25/50
2 CH	JPEG 1/2/3/6/12/25/50	MP4L 1/2/3/6/12/25/50
1 CH	JPEG 0.5/1/2/3/6/12/25/50	MP4L 0.5/1/2/3/6/12/25/50

![](_page_17_Picture_6.jpeg)

COMPRESSION FPS: MP4L 8

#### TRIGGER MODE

RECORD QUALITY : SUPER COMPRESSION FPS : JPEG 30 POST RECORD : 5 SEC PRE RECORD : ON

#### MOTION MODE

RECORD QUALITY : SUPER COMPRESSION FPS : JPEG 30 POST RECORD : 5 SEC PRE RECORD : ON MOTION DETECTION SETTING

![](_page_17_Picture_12.jpeg)

to change value.

- RECORD QUALITY: Press 🔍 🔍 1. to change mode from SUPER (Best), EXTRA, to HIGH
- 2. RECORD FPS(recording frames per second): Press 🗋 🦲 to change value
- 3. PRE RECORD: Press to change mode (On/ Off)

NTSC		
4 CH	JPEG 2/4/8/15/30/60	MP4L 2/4/8/15/30/60
PAL		
4 CH	JPEG 2/6/12/25/50	MP4L 2/6/12/25/50

- RECORD QUALITY: SUPER(Best), HIGH, NORMAL, STANDARD 1.
- 2. RECORD FPS(recording frames per second)

NTSC		
4 CH	JPEG 2/4/8/15/30/60	MP4L 2/4/8/15/30/60
PAL		
4 CH	JPEG 2/6/12/25/50	MP4L 2/6/12/25/50

![](_page_18_Figure_0.jpeg)

beep.Please change another USB device and press

**V**to continue the backup.)

### VI. PERIPHERAL SETTING

PERIPHERAL SETUP

TUP		
R SETU	P	
:	ON	
:	ON ON	
:	ON ON ON	
::	ON ON ON ON	
: : : : : : : : : : : : : : : : : : : :	ON ON ON ON	
	TUP	TUP

TRIGGE	R INPUT S	ETUP	
TRIGGER IN	STATUS	OUT	FULL
CH 01	NC	ON	ON

TRIGGER SETUP

TRIGGER INPUT SETUP TRIGGER OUTPUT TIME: 01 SEC

# VII. SYSTEM SETTING

LOAD FAC	TOR	Y DEFAULT	:	NO
FIRMWAR	E UP	GRADE - USB	:	NO
FIRMWAR	EUP	GRADE- SD	:	NO
30010710	:	021		
JAYS	:	008		
SKL	:	013		
PRESS EN	ITER	KEY TO RUN		

# VIII. KEY LOCK SETTING

![](_page_19_Figure_6.jpeg)

![](_page_19_Figure_7.jpeg)

![](_page_19_Figure_8.jpeg)

1.	Press		to select item
2.	Press	<b>+</b> -	to change value

![](_page_19_Figure_10.jpeg)

#### KEY LOCK SETTING

LOCK: OFF UNLOCK PASSWORD SETUP

#### UNLOCK PASSWORD SETUP

OLD: \*\*\*\* SELECT NUMBER: 0-9

#### NEW PASSWORD SETUP

NEW: \*\*\*\* CONFIRM: \*\*\*\* SELECT NUMBER: 0-9

#### UNLOCK PASSWORD SETUP

OLD: \*\*\*\* SELECT NUMBER: 0-9

PASSWORD ERROR

### VIIII. LANGUAGE

LANGUAGE ENGLISH ENTER: RUN

- Press to select item
   Press to change mode (On/ Off)
- 1. Key in Password (Default is 0000)

- 1. Key in the new password
- 2. Confirm the password

1. Password Error, please key in password again or press

![](_page_20_Picture_16.jpeg)

![](_page_20_Picture_17.jpeg)

### PLAYBACK MODE

![](_page_21_Figure_0.jpeg)

# PC Player

![](_page_21_Picture_2.jpeg)

Search Files	Search Files	🖄 Backup	Backup DVR file
Admîn	Login	Time / Date Top Left	Time/ Date top left
Time / Date On	Time/ Date on	Change Password	Change account and password
Select Path	Select Path		Enter
Set Start Time	Set Start Time	Set End Time	Set End Time
Export	Export backup file	Cancel	Cancel
CH1 CH2 CH3 CH4	Select video channel	CH1 CH2 CH3 CH4	Select audio channel
	4 split display	Snap	Save JPEG picture
Print	Print	32x	Multiply 32 times the original speed
Enhance	Enhance the resolution	<b>())</b> ()+	Audio adjust
+	Mute		

Playback control bar:

	n		-		•	•	*		M
Stop	Pause	Last	-1/2X	-2X	-1X	1X	2X	1/2X	Next

File information:

Start Time: 2008/07/15 End Time: 2008/07/15 12:05:23 End Time: 2008/07/15	NTSC	2008/09/12	13:55:43	Stop
--	------	------------	----------	------

\* Computer Requirement: Dual Core CPU or above , 1GB RAM or above

\* Operation System Requirement: Windows XP or above

# **Operation procedure**

# Search Files

![](_page_23_Picture_0.jpeg)

Vides Pariset   1726 Vides Pariset   1726 The Inner:   1720/2000/0014/2/2/2/0-00 nonoverseter   1709-2000 The Inner:   1709/20101 60:0-21 +						19.80	arch M	ES
Video Passer: 1972 Tite Rase: [Johnstein and Schligg) Inde@Bolt in recent games. Allow Schlig Take Inter: [Johnstein Boltz] end Inter: [Johnstein Johnstein General all event Schlig Inter: [Johnstein Schlig] Ende@Boltz Handling Const Boltz Recent all Interest Content and Interest Interest Interest Content and Interest Tite Rase: Dear liter: Content and Interest Interest Interest Interest Content and Interest Interest Interest Interest Interest Interest Content and Interest Interest Interest Interest Interest Interest Content and Interest Interest Interest Interest Interest Content and Interest Interest Interest Interest Interest Interest Content and Interest Interest Interest Interest Interest Interest Interest Interest		pen Hile Iver					8	
The flow :: [UNMARKED and SCROUGH Leg 2014 of 2024] The neuroscape of UNMARKED SCROUGH Control OF UNMARKED SCROUGH		Video Passal : \$	4790			Browse	1	lating
Sher Tree : [0098101 655627 ++++ Tree : [0098101 651120 Cated Live 3 Tree : 144 Tites : [0098101 651120 Cated Figure : Conta Sis Ing Cated Tree : Cated Regards : Cated Tree : Cated Tre		File Name : F	Stream on and Setting	gell led 的复数形式 recom	Septem _ Alleys_Sector	Open		
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Payots     Decisión los     Decisió		List of B	ne	Flat Bit event		earch all event	1	01
Nackage No.	0	Paywet		Check file log	0 4	Check all leg		
136 Name         Total line         Last line         Total name         22           C (Streaments and So 2000/001 62:05:21         2840/001 62:05:21         284.0         NTEC         10           If         Name         Name         Name         Name         Name         10		Deckup 1	6e	linchap event		care of antideget		
C(Decembro ed Se., 2009/001 629621 38490101 621523 984.9 878C 1 3								
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4		The Name CyDecuments and Se.	28ert Ume 2009/01/01 02:05:21	Led line 2005/01/01 02:11:20	SKL 9	Wideo Termat NTSC		23
e and a cost		Lite Name Cillincoments and Se.	2009/01/02:06:21	End line 2005/01/01 02:11:20	Throware Versiles SKL 9	Video I ernat MTSC		22
		The Name Collocoments and Se.	Dant State 2005994001 62:05:21	End line 2004/01/01 02:11:20	Linsware Versite SKL 9	Video I ernet NTSC		22

![](_page_23_Picture_2.jpeg)

Click Search Files

![](_page_23_Figure_3.jpeg)

![](_page_23_Picture_4.jpeg)

### Select a folder with DVR files and press "OK"

![](_page_23_Picture_6.jpeg)

Double click the selected recording file to playback or click the selected recording file and press "Open" to playback.

File searching method:

- \* List all time : list all the recording sessions in the folder you browse.
- \* List file event : list the event which you select in "List all time"
- \* Search all event : list all the events in the folder you browse (max. 1000 events)
- \* Reports : to convert event list into CSV file.

- \* Check file log : list the boot and working log which you select in "List all time"
- \* Check all log : list the boot and working log in the folder you browse
- \* Backup file : to backup the file you selected
- \* Backup event : to backup the event you selected
- \* Format storage : Format SD card easily

### **Backup Files**

![](_page_24_Figure_6.jpeg)

![](_page_25_Picture_0.jpeg)

# **Playback Files**

![](_page_25_Picture_2.jpeg)

Press  $\fbox$ .  $\rag{Press}$   $\rag{Press}$   $\rag{Press}$  to playback single to playback four channels in the display area

![](_page_25_Picture_4.jpeg)

Move the mouse cursor to the place you want to enlarge. Right click to zoom in. Right click again to get back to the original scene.

### Admin

![](_page_25_Picture_7.jpeg)

![](_page_25_Figure_8.jpeg)

and key in account

and password.

# **Default: root/ root**

The percentage of backup process.

![](_page_26_Picture_0.jpeg)

![](_page_26_Picture_1.jpeg)

Press

Press

Time / Date On

Time / Date Top Left

on top left or bottom right.

to show or hide the

to show time/ date

time/ date stamp.

![](_page_26_Picture_6.jpeg)

![](_page_26_Picture_7.jpeg)

password in Admin area.

# System information

### LED status

Red LED	Green LED <u>On</u>	Power on, and SD card or SATA HDD works normal
<u>i</u> <u>On</u>	Green LED <u>Off</u>	Power on, but no recording (SD card not inserted/ SATA HDD not installed/ SD card or SATA HDD abnormal)
Red LED <u>Off</u>	Green LED <u>Off</u>	Power off

# **Recording Time of Memory Capacity**

Storage capacity	High	Super	Extra
1GB/ 60fps	MP4L: 0.29 hr	MP4L: 0.28 hr	MP4L: 0.22 hr
	JPEG: 0.19 hr	JPEG: 0.15 hr	JPEG: 0.14 hr
4GB/ 60fps	MP4L: 1.12 hrs	MP4L: 1.06 hrs	MP4L: 0.85 hr
	JPEG: 0.73 hr	JPEG: 0.64 hr	JPEG: 0.51 hr
8GB/ 60fps	MP4L: 2.25 hrs	MP4L: 2.11 hrs	MP4L: 1.72 hrs
	JPEG: 1.45 hrs	JPEG: 1.29 hrs	JPEG: 1.03 hrs
16GB/ 60fps	MP4L: 4.41 hrs	MP4L: 4.23 hrs	MP4L: 3.42 hrs
	JPEG: 2.92 hrs	JPEG: 2.59 hrs	JPEG: 2.05 hrs
100GB/ 60fps	MP4L:27.98 hrs	MP4L: 26.52 hrs	MP4L: 21.27 hrs
	JPEG: 18.26 hrs	JPEG: 16.02 hrs	JPEG: 12.47 hrs

(The actual recording time will vary from image complication and frame rate setting.)

# Specification

	Talitor 4ch Vehicle DVR
Operating System	Non-OS
Video input format	NTSC or PAL (Auto detect)
MENU OSD	English, Portuguese, Customization-able
Time Date Stamp Format	(1) yyyy-mm-dd, (2) dd-mm-yyyy, (3) mm-dd-yyyy, 3 formats
-	selectable by OSD
Channel Tittles	Enable to be renamed by user, 4 characters
Compression Format	Enhanced JPEG/MPEG-4 Like
	(Dual mode recording)
Video	4 In (CVBS)
	1 Out (CVBS)
Display Resolution	720x480 @ NTSC
	720x576 @ PAL
Display Frame Rate	30 fps @ NTSC /25 fps @ PAL (per channel)
Total Record Resolution	720x480 @ NTSC
	720x576 @ PAL
Record Frame Rate	NTSC: 60 fps @ 720x480
	PAL: 50 fps @ 720x576
Fast/Slow Playback	Yes
Motion Detection Record	1. Motion detection area can be defined in 192 grids and
	sensitivity can be select
	2. Each channel can be triggered by motion detection
	independently
Recording Quality	3 Levels adjustable (Super, High, Extra)
Video Recording Mode	Schedule continuous, Schedule motion, Schedule alarm
Time/Date Stamp	Yes, format and position adjustable
IR Remote Controller	Yes
Audio	4 channel Input/ 1 channel Output
Alarm Input	4 sets of external triggering signal interface
Relay Output	1 relay output
Event Recording	Post-event recording 5 seconds, Pre-event recording 2 seconds
Power In	12V~30V DC (surge protection up to 40V@2 seconds.)
Power Out	12VDC, 4 output @ 200mA for internal accessory
	12VDC, 4 channel @ 300mA for external camera
Timer Battery	RTC Battery lasts for 30 days after power is off
LED	Power (Red)/Recording (Green)
Firmware Upgrade	Yes, through SD card or USB drive
Quad/Sequence	Yes
Peripheral setup	Buzzer setup/ Power switch
SD Interface	Yes, (SDHC class 6 recommended, support up to 32 GB,)
SATA Interface	Yes, support 2.5" SATA HDD up to 500GB
Backup	To USB drive or on PC software
Dimensions	$180 \times 100 \text{ mm}$ (main board) + $52 \times 100 \text{ mm}$ (power board)
Reserved	RS232 (for GPS)