4ch AHD SD Mobile DVR

USER MANUAL Model Name: NDDVR-300

Version 1.0

Introduction

The manual is about the features and specifications of one kind of car DVR, it is an integration of "4 monitoring and recording ", "Million Pixels Digital&Analog mixed car DVR", "wireless data transmission ".

In the manual it describes the functions and considerations of the modules ,the connector signal definitions in the back panel, the interface definition and user's operations.More details,please check following directory.



State:

This manual may exist any technical describe inaccurate or misprint, also the contents will be update unscheduled without notice, new contents will be added in next version;

We're subject to improve or update product description or program, if any difference, all depend on real goods, please understand.

1 Parts list

No	Neme	Quantit	Unit	Device Type				
No	Name	У	Unit	Basic	Basic+WIFI	Remark		
1	MDVR	1	set	v	v			
2	Remote Control	1	pcs	v	v	Optional		
3	Keys	2	pcs	v	v			
4	WIFI antenna	1	pcs	×	v			

2 Product introduction

2.1 Product features

H.264 Compression Mode, Support 4CH real-time 1080P Million Pixels AHD input and Analog Standard Definition camera input, or 2CH HD input + 2CH SD input; Exclusive pre-allocate DVR Special File System Technology,Solving repeatedly wipe cause file fragmentation, solving SD card file system collapse, data loss and cannot find SD card and file garbled, ensure the integrity of the data. 8-33V Adaptive Wide Voltage input, Super Low Power Consumption Design; SD card storage (maximum support two pieces 128GB SD card.) It can be completely resist car Vibration,Dust and others cause data corruption; Support GPS/BD/G-SENSOR ; High Reliability Aviation plugs,High Cost Performance with reliable stability,simple and clear operation menu.

- HIS Solution,H.264 Compression Mode, Many stream recording,4CH Video+2CH Audio Input, Compatible with 4CH 1080P/720P Mega Pixels Analog High Definition Camera input /2CH AHD High Definition + 2CH Standard Definition mixed input / 4CH Analog Standard Definition Camera input.
- > Real-time HD Video Recording, 1080P/D1/HD1/CIF for Optional, Adjustable Frame Rate Quality.
- Professional Power Design for all kinds of Vehicles, 8-36V DC; Wide Voltage, Over-load, Over-voltage, Short Circuit, Reverse Protection, Suitable for all kinds of vehicles.
- Support DC 12V/2.5Amp output, it can offer power for cameras, mini monitor and some peripheral device.
- SD card Data record storage (maximum support 128GB SD card.) It can be completely resist car Vibration,Dust and others cause data corruption;
- > Watchdog Abnormal will trigger Restart Protection Function . It can better protect Device and Video.
- Exclusive pre-allocate DVR Special File System Technology, Solving repeatedly wipe cause file fragmentation, and ensure the integrity of the data.
- By accidents power-off protection function. Unique UPS Technology ensures the integrality of record when power failure occurs, even can for 10-15s.
- > Flame out Time-lapse Video Recording Function (Highest support long delay time 24 hours.)
- > Auto Recording, Time Recording, Alarming Recording Modes for Different Request.
- Display vehicle traffic status, Vehicle numbers ,Route, Super-low speed vehicle Information, Convenient management..
- Support WIFI connection
- > All Aviation plugs, Super stable, High Anti-shock, Easy installation Plug in and out.
- Unique WINDOWS 8 interface, Easily Smart GUI Interface, Fluent system interface is intuitive and perfect.
- Support SD card Remote Software Upgrade/OTA remote upgrade automatically, partition backup technology upgrade don't crash.
- > Can be batch functional customization according to customer's requirements;

2.2	Main	Functions
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Main	Sub-Item	Instructions
	Video Channel	4Channel video + 4Channel Audio recording synchronously;
	Resolution	Support 4*1080P(1280*1080),4*D1(704*576),4*HD1(704*288), 4*CIF (352*288); Each channel is individually adjustable.
	Image Quality	0-7 levels, 0 is the highest level.
Recording	OSD	Overlays information such as date time and vehicle ID
Sub-System	Loop Rec	Support SD card loop recording, loop cover previous video
	Record Mode	Timed recording, alarm trigger recording and manual recording
	Preview	Support 1 channel and 4 channels preview. Support enlarge video image when alarm trigger and video rear view trigger;
	Disk overwritten	Space pre-allocated Support disks overwritten function.
	Video Search	Search video files anytime per day, type(n/a)
Playback		Support 1 to 4 channels playback.
System	Playback	Support forward and backward play at the speed of: x2 ,x4,x8,x16.
		Support alarm spot search and time search.
GUI	Graphical User Interface	Setup system parameters with the remote control.
Optional	Network	Can expand WIFI module,support 801.2b/g/n
	ON/OFF	System delay-time power on/off;
Others	File System	DVR special file recording System Technology,Exclusive car record file system,space pre-allocate,4ch single file Record,cyclic covering; To avoid the storage of the media causes file fragments, with high reliability and high stability;

2.3 Parameter Sheet

	Item	Parameter		
	OS	Linux		
Language		Chinese/English/Others (can be customized)		
Video Compression		H.264 Compression Mode		
	OSD	Overlays information such as date time and vehicle ID		
GUI	Graphical User Interface	Can connect to external LED screen. Setup system parameters with the remote control.		
Video Record System	Video Input	4CH 1080P AHD/ 4CH standard definition /2CH high definition+2CH standard definition mixed video input ,aviation plug.		
yo rd	Video Output	1CH CVBS		

	Preview	Support 1 channel and 4 channels preview.,Support Manual/Alarm Trigger full screen preview
	Resolution	1080P/D1/HD1/CIF, MAX:4 channels of 1080P
	Video Quality	0-7 levels, 0 is the highest level, 7 is the lowest level.
	Video Standard	PAL: 100f/s , CCIR625 line,50field; NTSC: 120f/s, CCIR525 line,60field; CIF: 256Kbps ~ 1.5Mbps, multi levels video quality optional; HD1: 600Kbps ~ 2.5Mbps, multi levels video quality optional; D1: 800Kbps ~ 3Mbps, multi levels video quality optional; 720P : 1Mbps~4Mbps, multi levels video quality optional; 1080P: multi levels video quality optional;
	Record Mode	The default setting is auto recording after power on. Timed recording, alarm trigger recording and manual recording are supported.
	Audio Input	4CH ,Aviation Plug
Audio	Compression	G.726 compression, 8KB/s speed
Wirele	ess transfer	Support Built-in/External WIFI
G-	Sensor	Support G-sensor(Optonal)
	Storage	1pieces SD Card,each max 128GB SD Card,
Video	Upgrade	Support USB flash disk updating,SD card upgrade , OTA remote upgrade automatically
Storage	File Format	H.264 General video format
	USB	Front panel supports USB port, support USB flash disk upgrade to backup; hard disk box USB port, can back up video data
	Video Search	Search video by Record Time/Record Type etc
Video Playback	Dlaula ala	Max support 4CH Replay /Stop/Fast Forward/Fast Reverse at same time
T hay buck	Playback	Support x 2,x4,x8,x16. fast forward or fast backward play
Safety I	Management	User/Admin 2 Levels Different Passwords , support screen lock
	Power Management	Adaptive wide power input, support Wide Voltage, Over-load、Over-voltage、 Short Circuit、 Reverse ProtectionSupport Time Setting/Delay power off
Voltage &	Voltage Input	DC:+10V ~ +33V
Power	Voltage Output	+12V@2A
Consumpti on	Power-off Protection	UPS Technology,All video information can be saved automatically when the power is cut off, and make sure that all the files can not be damaged.
	Power Consumption	Normal Working $<$ 5W Stand-by Status $<$ 0.5W
Working	Temperature	-20°C to +70°C
Environme nt	Humidity	20% to 80%

***** Above parameters any changes, please refer to actual product *****

2.4 Front Panel



** Status LED will alternate loop flash when device power on, it will quick loop flash when device is upgrading **

(3) WIFI (9) Power input (1) Video input: ch1 to ch4 (3) RJ45 (3) RJ45

2.5 4CH MDVR Back Panel

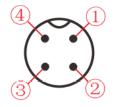
4CH MDVR Back Panel items introduction:

Item	Name	Silk screen	Functional Specification
(1)	Video&Audio Input interface	IN1-IN 4	1-4Channels, with DC 12V output,
2	Power Input interface	POWER	Input Voltage DC 8-33V,

3	WIFI Antenna Port	WIFI	
4	Video&Audio Output interface	AV OUT	Video&Audio output interface, with DC 12V output
(5)	RJ45	RJ45	It's used for connecting network cables

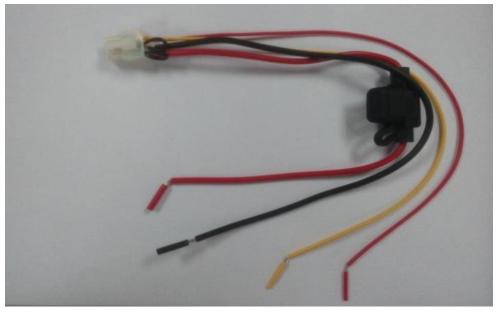
The 4CH MDVR support channel AV1~ AV4, it's Video&Audio Input interface use 4 Pin aviation plug,

PIN DESCRIPTION



4 Pin aviation plug

	4 Pin aviation plug
PIN	FUNCTION
1	+12V
2	GND
3	Audio Input/output
4	Video Input/output



Power cable pin definitions

Color Line	Name	Description		
Red	DC+	Power-Positive		

Black	DC-	GND
Yellow	ACC	ACC
Red	12V-OUT	12V output

Wiring: red and black wire are connected directly to the car battery. Red wire to positive, black to negative. Yellow line contacts FireWire, ignition switch mode is set to mode. The DVR device turns on when the vehicle power on,DVR turn off automatically the vehicle power off. Yellow line connected to the car keys to open the position (that is, before the automobile starter motor gear) all the dashboard lights.

Note: 1) Before connecting wires, one need to make sure the battery voltage is between 6V ~ 36VUU, otherwise it will be burned;

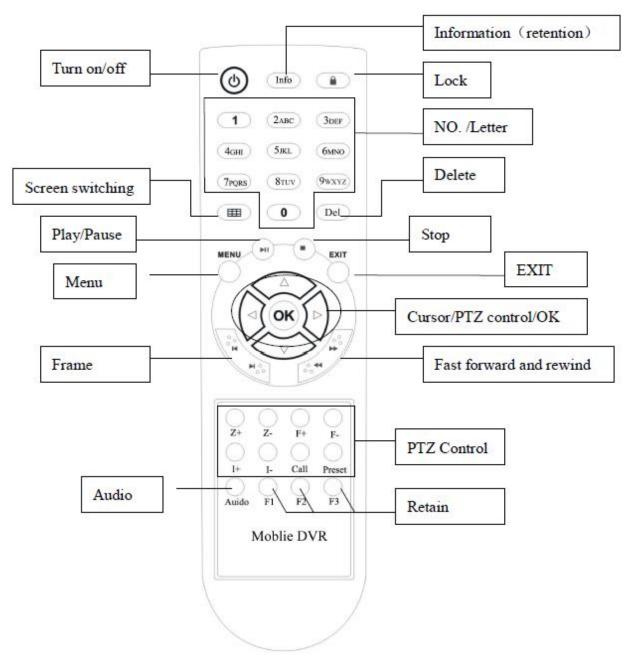
2) After connecting the cable, pay attention to insulation of the line between lines to prevent short circuit and burned out the battery;

3) yellow line must be connected to the firing line, otherwise the device will not support the ignition switch;

4) Special Note: 12V-OUT line can not be connected to the power input by mistake, which can not be connected to ground by mistake;

5) Note: DVR installation must be connected to battery positive and negative directly, can not be done with ground grounding, grounding will produce negative glitch host running. Positive and negative power supply line diameter must be Φ 1.5 above.

2.6 Remote Control



System Key

() : Turn on/ off key

- 【Info】: Info. Key (retain)
- [] :Lock. Press this key to lock remote input after exiting menu.
- **[III**] : Switch 1~4 screens. Number keys 1~4 can do this too.

[Del] :Delete key.

[Number/Letter] Input key, you can input the number value to select a single channel preview.

Menu-key Function Description

- 【MENU】 Start/Login/Exit menu
- **[EXIT]** Back to the previous menu
- 【△】 Last program
- 【 ▽ 】 Next program
- Modify the current item/last subproject
- **[**] Modify the current item/next subproject

[OK] Confirm

Play Keys

- 【► 】:Play/Pause
- **[]** : Stop
- 【 ▶ 】:Fast forward. 1/2/4/8/60
- **[I**] : Frame forward

3 Device Installation

3.1 Power Cable Connection

This MDVR use DC power supply, Wide operating range 10 to 33V

★ Use ignition switch to control video record delay time working

Red wire connect positive of the car battery, black wire connect negative, while yellow wire connect independent ignition switch or independent positive.

★ Do not use ignition switch to control video record delay time working(Office Test also using this mode)

The red and yellow wire connect together to connect the battery positive, Black wire to connect the battery negative .

♦ Attention

1. The recorder is DC power supply; please attention the positive and negative polar.

2. The voltage is 8V~36V.Do not insert voltage that beyond this range. Under low voltage the recorder doesn't work, under high voltage will be harm to the recorder.

3. Please make sure the recorder is connect with the car power directly. Do not connect with the generator, the instantaneous voltage will harm to the recorder.

4. The initial power will beyond 30W when the DVR connect with the Camera (the consumed power is different due to the connect with different device), the power supply must beyond 30W.

5. The power cables must can stand beyond 60W.(For example, when the output voltage of car is 12V,the power cables must can bear 5A or more).

6. Please put the cover on the cables, the cover must be wear-resistant, heat-resistant, water-proof, grease-proof, in case of short circuit and open circuit.

7. Please install a 10A fuse box near the battery output positive polar for fear of the short circuit will damage the power supply.

4 Operation Interface Setup

4.1 User Loading

When the password switch is set to "Off": The host start and press [OK] key, will direct access to the main menu..

When the password switch is set to "On": Move the cursor to "landing" column, Press [OK] key, then can enter the main menu.



4.2 System Main Menu

The main menu includes: Search, System setup, Rec setup, Network setup, Alarm setup and Peripheral, System Information, as below:



4.3 Search

Query menu includes: Record, Log and Picture,



2.1.1 Video Search

S M T W T F S 1 2 3 4 5 Start Time: 00:00:00 6 7 8 9 10 11 12 13 14 15 16 17 18 19
6 7 8 9 10 11 12 End Time : 23:59:55 13 14 15 16 17 18 19 Video Type: ALL Image: All state
13 14 15 16 17 18 19 Video Type: ALL
10 11 10 10 11 10 19
20 21 22 23 24 25 26 Disk Type : ALL
27 28 29 30 31 SEARCH

**** Green color display indicates current day and time exist video file ****

"Search Date": Press the number key to enter date, default is current date.

"Start Time": Press the number key to enter date, default is 00:00.

"End Time": Press the number key to enter date, default is 23:59.

"Record Type": Press the [OK] button to select the query type: All videos \Alarm recording. Default is All videos.

"Storage Media": Press the [OK] button to select: all disks, disk 1, disk 2.

"Search": Move the cursor to "Search" button, press the [OK] key to enter the search results interface.

	date:2015		Current	Burke	
DISK	TYPE	START	END		
sdl	Normal	07:52:43	07:52:43	4M	FIRST
				23.5M	_
				7 M	PREV
		08:15:39		100M	
					NEXT
					LAST
					EXPOR

Press the arrow keys to select the video you want, press the $\bigoplus \bigoplus$ keys to quickly flip, press \bigstar to turn to first page or last page, press the play button to play the video, press [ESC] key to return to the previous menu.

Press the arrow keys to select "Home", "Previous", "Next", "Last" and press [OK] button to display the next page information.

2.1.2 Log Query

This menu is to query device operation and working log, you can choose the same type log via log categories.

Date:	8015	/12/30	StartTime[00:00:00]	SEARCH
Type:	ALL	15	EndTime: [23:59:59]	Page: 1/1
	DATE	TIME	CONTENT	FIRST
1 201	5-12-30		Param Set[Basic]	
				PREV
3 201	5-12-30		0x2112, 0, 2, 0, 0,	
4 201		08:09:58	Param Set[Basic]	NEXT
				LAST
				EXPOR

When select a single log, press the $\bigoplus \bigoplus \bigoplus$ keys to quickly flip over, and press $\bigstar \bigoplus \bigoplus$ to turn to first page or last page.

2.1.3 Picture Search

This menu is mainly for searching the screenshot pictures.

StartTi	me[00:00:00]	EndTime:	[23:59:59]	Page: 1/
СНХ	TIME	SIZE		FIRST
				PREV
				NEXT
				LAST
				EXPORT

Zoom up single full screen will auto screen capture by default , it will be triggered by the alarm linkage or manually operate.

**** Pictures and device log all save in the second partition ****

4.4 System Setup

Under System Setup menu includes: Power, time setup, user setup, terminal setup (menu setup and modifying need to choose save to take effect)

	Sys Set Menu	
TERMINAL	USER	TIME
POWER	PARAMETER	FORMAT

ev ID: 13400	Terminal:
hone NO: (13400	FactorID:
late NO:] TerminID:
rovince:	City ID:
	SAVE
	SAVE

2.4.1 Terminal Setup

By remote control input settings: device number, phone number, license plate number, the provincial domain ID, the City ID, terminal type, manufacturer ID, terminal ID, the device management (data in accordance with the Department of standards, Chinese input can use the soft keyboard input)

2.4.2 User Management

Password	OFF	B		
USER:				
Confirm:				
ADMIN:				
Confirm:				

"Password Enable": You can enable or disable password authentication to access the menu. Modify or setup password of users and the administrator by remote control.

**** ADMIN Pass : 111111, USER Pass : 000000 ****

2.4.3 Time Set

This menu is to setup device parameters, such as date and time, etc.

Date Type:	YY/MM/DD	Date: (2015/12/30) Wed
Time Sync:	GPS -	Real Time: 08:20:21
Time Out :	60a 💽	Time Zone: GMT+8 + 00+
		保存

"Date Type": Different date format for choosing.

"Date": Press the number keys to enter current date.

"Time Synchronization": calibration mode: GPS, NTP and other school models available.

"Time Zone": Setup the time zone of the location of the device

"Timeout": optional remote control does not operate the exit time

"Real Time": Press the number key to enter the current time

2.4.4 Power Management

This menu is to setup Power management modes and power distribution.

Power Mode:	20	
Delay Off: []	(1-1440min)	
ScreenTime: 6	0 (0-1440min)	
Power ON: 05:0	00:00	
PowerOFF: 2210	00:00	

"Power mode":press the number keys to select the type, the default is ignition mode.

"Delay Off": Press the number keys to enter the time, the default is 5 minutes, can be set to 1440 minutes "Screen time": Press the number keys to enter the time, the default is 60 minutes, can be set to 0-1440 minutes

"Power On": Press the number key to enter time, setup the timer start time

"Power Off": Press the number key to enter time, setup the timer off time

2.4.5 Parameters Management

Parameter	s Management
Parameters Import:	YES
Parameters Export:	YES
Default Setting :	YES

"Import":Import parameters from HDD or SD Card to current device.Import the system configuration parameters which has set up and restore the factory settings to the factory states

"Export": Export current device parameters to HDD or SD Card;

"Default": Default to factory setting; This operation will clear all the setting on the device.

If quantity Devices with same setting, please using Parameter Export/Import for configuration, after setting one device, export these parameters to U-Disk or SD Card then import to other rest devices to be fast setting.

2.4.6 FORMAT

Format Disk choice, device will reboot disk after confirming, log and pictures and other related info will be reserved.

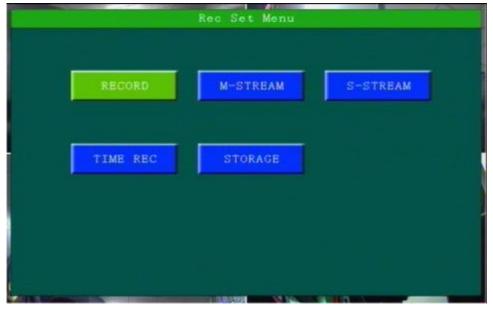
	Disk Format	
DISK1 DISK2	FORMAT	

Attention:

Device will format automatically when it starts, new SD card, can be formatted on the computer, in general, it doesn't need format disk in DVR by manual.

2.5. REC Setup

Recording setup menu includes: basic setup, Main stream, Sub stream, time recording, Storage management(configuration and modification must select Save to take effect)



2.5.1 Basic Setup

This menu is to setup the basic video, audio and video parameters and can change into standard definition, AHD high definition and mixed mode.

	Basic	Recor	d Setup	
Video Type Camera Type Packet Time	AHD		Record Mode: DisplayType: Layout :	
		(SA	<u>VE</u>	

"Video Type": PAL / NTSC, press [OK] key to select.

"Record Mode": Auto / timer / alarm recording, press [OK] key to select.

"Camera Type ": Can switch the status of standard definition , high definition or mixed camera input.

"Resolution":Set the resolution of VGA output.

"Layout": optional: Single, 2-channel, 4 grids, nine grids and other video channel layout.

"Packket time": The time of a single record file.

Attention :

If the camera type and DVR setting mode(AHD HD/Analog/Mixture) don't match, then it will show "video lost", In Mixture mode, 1,2CHANNEL is AHD high definition input, 3,4CHANNEL is analog standard definition input;

2.5.2 Main Stream

 -		Main S	tream			
CHL	EN	RES	FPS	QUA	AUDIO	1
CH1	ON -	720P	25	4	ION 🚽	
CH2	ION -	720P	25	4	ION 🛃	
CH3	ON 9	720P	2513	4	077	
CH4	ION I	720P	25	4	OFF 🗧	
ShortC	ut (40)	IF .	s (SI	VE)		

This manual is to setup the code stream and definition of video channel.

"Enable": open or close the channel of pre-recording function, press [OK] key to select.

"Resolution": CIF, HD1, D1 and 1080P resolution for choosing, press [OK] key to select.

"FPS": 1-25 frame (P standard), 1-30 frame (N standard) channel recording frame rate for choosing.

"Image quality" setup video quality under different resolution, 4-speed adjustable.

"Audio" setup the audio recording on or off.

According to the storage space and quality requirements, the resolution of each channel and stream can be configured individually

2.5.3 Sub-stream

This menu is used to set the parameters of the transmission stream.

	and the second s			
	Sub 8	Stream		
RES:	HD1			
FPS:	25 -			
QUA:	2			
		SAVE		
And a subscription of the	1000		Market N	

"Resolution" Setup the transmission resolution, press [OK] key to enter.

"FPS" Setup the transmission time frames, press [OK] key to enter.

"Image quality" setup transmission quality grade, press [OK] key to enter.

2.5.4 Time Record Setup

DATE	Time 1	Time 2
Sun	00:00 00:00	00:00 00:00 00:00
Mon	00:00 00:00):00 00:00 00:00 00:00
Tues	(00:00) (00:00	00:00:00 (00:00)
Wed	(00:00) (00:00	0:00 00:00 00:00
Thur	(00:00) (00:00	1:00 (00:00:00) (00:00:00
Fri	00:00 00:00	0:00 00:00 00:00
Sat	(00:00) (00:00	00:00 00:00 00:00
ALL	(23:59:59) (00:00	0:00 00:00 00:00
		SAVE

Setup the timer recording time periods, everyday can be set to two periods.

Move the cursor to "Timing Recording" and press [OK] button to set up the following timing list.

Timer recording start time is before the end time.

2.5.5 Storage management

Storage Set
Pre Record : 80 (0-60s)
Alarm Delay: [120] (120-3600s)
Alarm File : 45 (Protect time 3~45Days)
SAVE

"pre-recorded": pre-recorded alarm recording time of 0-60 seconds to setup, press number keys to setup. "Alarm delay": alarm delay recording time, 120-3600 seconds to set up, press number keys to setup. "Alarm Fime": The storage time of alarm file, 3-45 days to set up, press number keys to setup.

2.6. Network Set

Including: Center setup,Local Network , dialing setup,WIFI setup.

	Network		
CENTER SET	I	LOCAL SET	
DIAL SET	1	WIFI SET	
		WINDOW BUILD	

2.6.1 Center Setup

Set Server IP and Port ;

Server IP1:	116. 255. 233. 211	Port:	
Server			
	(192. 168. 1. 250	Port:	6608
IP: User: Passwor		Port:	
	SAVE		

"Monitoring Center": Set 3G /4G Video Center IP or domain, port information etc,

"Network Type":Set 3G network type, IP address/Domain optional;

"Center IP":3G Server IP/Domain setup. Press right key to enter keyboard interface, input the numbers via remote controller, then press [OK] for setting,;

"Port":Communication port between 3G device and Server, must be same with server configuration; **Remind:**

In "Info" interface, W connected : it means device connected server already; B connected : it means device connected ministerial standard platform already, Connected : it means two platforms both connected device successfully.

2.6.2 Local Network Setup

Device Local Network setup

Local NetWork Setup
LinkType: Local
IP : (192.168.001.010)
MASK: (255, 255, 255, 000)
Cate: [192.168.001.002]
DNS1: (192. 168. 001. 002)
DNS2: [192.168.001.002]
MAC : (78:24:af:34:01:3e)
保存

"IP"\"Mask"\"Gateway"\ "DNS1" \"DNS2"\"MAC":IP,Mask,Gateway,MAC setting for LAN network testing.

Attention:

When net cable directly connect to the device, only can use 4PIN definition net cable (please see more definition in the addenda), otherwise it will lead device dead.

2.6.3 WIFI Setup

WIFI EN OFF	IP: Gate:	192. 168. 002. 100 192. 168. 002. 001
Auth: WPA-PSK	Mask:	255. 255. 255. 000
EncType: AES		
SSID: test-wifi		
PWD: BEEBBEBB		

"WIFI-EN": WIFI On/Off Setting, Press [OK] for choosing;

"Encr-EN": WIFI encryption ON/Off Setting, press [OK] for choosing;

"Au-Mode": WIFI Authentication mode setting, Please choose same one with your router,

"Enc-Type": WIFI Encryption type setting, Please choose the one same with your router,

"IP"\"Mask"\"Gateway":WIFI IP/Mask/Gateway setting

"SSID": Input Your WIFI SSID,

"PWD": Same with your WIFI password,

According to the specific configuration of WIFI network environment, please pay attention to check the accuracy of the characters and the IP address.

IP address set by WIFI and local network can not be in the same network segment.

2.7. System Info

System Info have 2 parts for detail information; can view by menu or Press INFO.

BootVer	: T15112001	KernelVer	T15122881
SystemVe	er:T15122881	AppVer:	T15122881
McuVer:	T15102801	Phone No:	13400
SysPower	e: 29.3V	Temperatu	re0.0V
ACC:		Lock:	
10:	<1>0 <2>0 <3	>0 <4>0 <5>0	0 <6>0 <7>0 <8>0
Gsensor	X=0.00g Y=0.	00g Z=0.00g	A=0.0°
GPS:	BD [NO MODUL	E]	
IP1:	116. 255. 233.	211:6608	
IP2:	192. 168. 1. 25	0:6608	
		NEXT	

Disk Name	e Total cap	Free space	Statu
DISK1	28.83GB	24. 09GB	Normal
DISK2	OKB	OKB	Not Exits
U DISK	OKB	OKB	Not Exits
Module Typ SIM Signal	: WIRED e: Not Exits : NO DIAL	SIM Status:	
Module Typ	e: Not Exits : NO DIAL		
Module Typ SIM Signal Dial Statu	e: Not Exits : NO DIAL	SIM Status: Dial IP:	

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: -- Reorient or relocate the receiving antenna.

- -- Reonent of relocate the receiving antenna.
- -- Increase the separation between the equipment and receiver.
- -- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- -- Consult the dealer or an experienced radio/TV technician for help.

Warning: changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

Radiation exposure statementy this equipment compliance with FCC radiation exposure limits set forth for anuncontrolled environmenty this equipment should be installed and operated and operated with minimum distance 20cm between the radiator and your body