

# Real Track Technology

C73 Ground floor, Sector 47Noida, (Utter Pradesh) Mob: 8755311835, Sales@realtracktechnology.com

## Five in One 4CH HDD Mobile DVR (MR9704C)



### FEATURES:

- Built-in high performance chipsets, coded with H.265/H.264 standard, high compression rate and image quality
- AHD/TVI/CVI/IPC/ANALOG five in one video input, wide compliance
- Maximum 5 channels live preview and storage
- 1CH synchronized CVBS AV output, 1CH VGA output
- Hard Disk Auto-Heating System (Optional)
- Support UPS power input
- Built-in G-sensor, monitor the driving habits
- Reverse Assistance
- Adjust the camera image horizontally and vertically

#### **Power:**

- Professional In-Vehicle power design,8-36V DC Wide Voltage Range
- Multiple protection circuits like under-voltage, short, reversed plug-in
- Smart power management system, shutdown under low voltage, low consumption when standby

• Report the GPS info to the server regularly with very low power consumption, compliant with JT/T 794-2011 standard

**Data Storage:** 

- Built-in super capacitor to avoid data loss and disk damage caused by sudden outage
- Special file management system to encrypt and protect the data
- Proprietary technology to detect the bad track of the disk which can make sure the continuity of video and long service life of the disk
- Support 2.5 inch HDD/SSD, maximum 4TB
- Support SD card storage, maximum 512GB

### **Transmission Interface:**

- Support GPS/BD/GLONASS (optional), high sensitivity, fast positioning.
- Support wireless download by WiFi(optional), 802.11b/g/n, 2.4GHz
- Support 3G/4G transmission, LTE/HSUPA/HSDPA/WCDMA/EVDO/TD-SCDMA

Technical parameter:				
Item	Device Parameter	Performance		
	Operating System	Embedded Linux OS		
System	Operating Language	Chinese/English		
	Operating Interface	GUI, Support USB mouse		
	Password Security	Two Layer password Admin/User		
	Video standard	PAL/NTSC		
	Video compression	H.265/H.264		
Audio	Image resolution	720P/960H/D1/CIF		
&	Playback quality	720P/960H/D1/CIF		
Video	Decoding ability	4ch 720P real time		
	Recording quality	Class 1-6 optional		
	Image display	Single/QUAD display optional		
	Audio Compression	G.711A / G.711U / G.726		
	Audio recording	Audio & Video synchronized recording		
Recording	Recording mode	Automatic/Alarm		

& Playback	Video bit rate	Full frame 4096Mbps, 6 classes image quality optional		
	Audio bit rate	8KB/s		
	Storage media	SD card + HDD/SSD storage		
	Video inquiry	Inquiry by channel/Recording type/Alarm Type		
	Local playback	Local 4CH		
Firmware upgrading	Upgrading mode	Manual/Automatical/Remote/Emergency Recovery		
	Upgrading method	USB disk/Wireless network/SD card/Hard disk		
	AV input	4ch 4pin aviation + 1ch 6pin aviation for IPC		
	AV output	1ch VGA video output, 1ch aviation AV output		
	Alarm input	4 digital inputs (4Positive/Negative trigger)		
	HDD/SSD	1 HDD/SSD (up to 4TB, support hot plug/unplug)		
	SD card	1 SDXC High speed card (up to 512GB)		
	USB interface	1 USB 2.0 (support U disk/mouse)		
Interface	Ignition input	1 ACC signal		
	UART	1 LVTTL Level		
	LED Indication	PWR/RUN		
	Ethernet	1 x 6 pin aviation to RJ45 (10M/100M)		
		500mA@12V		
	Disaster Recovery	1 x 5PIN aviation interface		
	Disk lock	1		
	Debug port	1		
Function Extension	GPS/BD/GLONASS	Support detecting antenna Plug in/Unplug/Short circuit		
	3G/4G	Supports CDMA/EVDO/GPRS/WCDMA/FDD		

		-			
		LTE/TDD LTE			
WIFI 802.11b/g/n, 2.4GHz					
	IPC	6Pin M-12 aviation interface			
	Power input	8V~36V DC			
	Power output	5V 300mA			
		Standby4Ma/12A			
Others	Power consumption	Power consumption: AVG 6.24W (excluding peripherals)			
	Working temperature	-20 70°C			
	Storage Size	H.265 720P 270MB/h/channel H.264 720P 510MB/h/channel			
	Dimension	162mm*153mm*52mm			

### The interface definition

1. Power interface

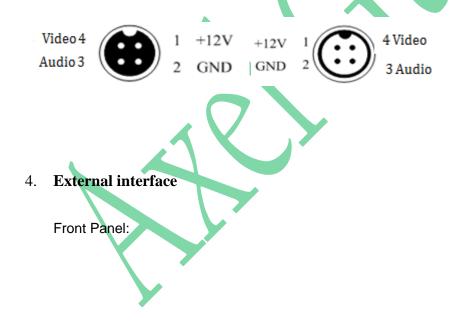
9-36V	9-36V	ACC
GND	Reserve	GND

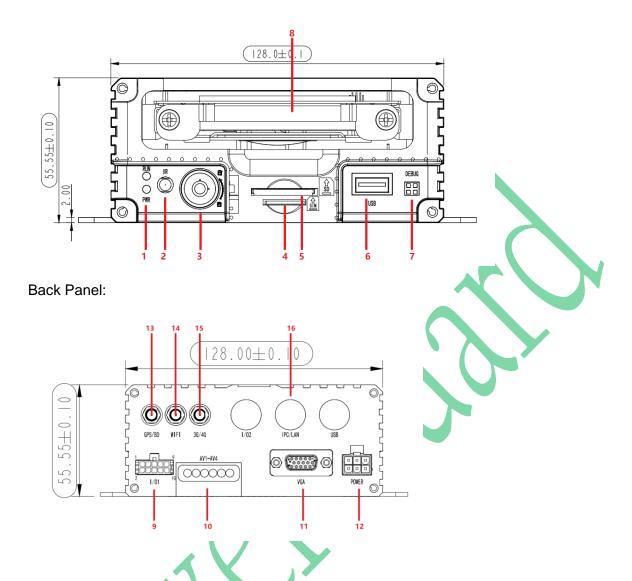
2. I/0 Interface definition

1	3	5	7	9
2	4	6	8	10

PIN	Color	Line mark	PIN	Color	Line mark
1	Blue	OUT	2	Black	GND
3	Purple	IN2	4	Purple	IN1
5	Purple	IN4	6	Purple	IN3
7	Red	5V	8	White	RS232_TXD(TTL)
9	Grey	IR	10	Yellow	RS232_RXD(TTL)

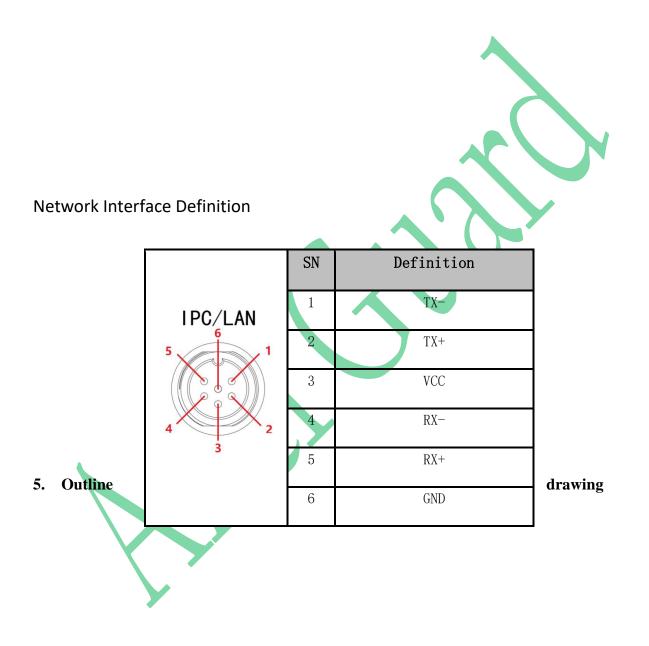
3. Audio and video interface definition





Number	Instructions	Number	Instructions
1	LED	9	I/O1
2	IR	10	AV1-AV4(Contains CVBS output)
3	SD Lock	11	VGA
4	SIM Card	12	POWER
5	SD Card	13	GPS/BD Antenna

6	USB	14	WIFI Antenna
7	DEBUG	15	3G/4G Antenna
8	HDD	16	Network



# 6. Outline drawing

