

MINTRON -- One Channel 3.5G DVR Manual

GPS / Google Map / Mini SD Memory Card

Basic system:

- Platform Codec: 720P Multimedia H.264/MPEG4 with Linux system
- Digital Recorder-Video/Audio/GPS
- Recoding resolution: D1(720*480)/CIF(320*240) 1~30 FPS
- AV Input1 CH and Output 1 CH
- NON-GAP playback function by DVR with PC
- Simultaneous Real-time Recording & Playback & live view
- Multi-recording scheme -(always/schedule/Pre & Post-event/manual/IO trigger)
- Exclusive player -route tracking by Google-map
- Storage by Micro SD interface
- OSD (On-Screen-Display)
- Remote control
- System alert: video loss/SD full/automatically delete file

Family models (Optional):

- Number of the AV in: up to 2 or 4 channels
- For Digital camera: 720P HD camera / WDR SVGA camera
- HD 720P Video streaming out by Ethernet
- G-sensor:
- Wireless communication: 3.5G

information, please contact your salespersons.





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 $[\]ensuremath{^*}$ This manual is for reference only. The details may be changed without notice. For more



Main Device and Accessories Introduction Remote Control GPS antenna Cigarette charger L:116mm DC 8V~28 In W: 95mm H: 26mm Micro SD Memory Card In built soft: MENU exclusive player For AV in -AV Cable with DC-output Stereo phone jack type AV with RCA x 2+wire (1.2m)For AV out -AV Cable with Trigger Rec Stereo phone jack type **AV with RCA x** 2+wire (1.2m)











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Device Button / LED Signal Introduction-
front view
Green
MICRO SDHC
RESET
Red

	Joy stick (select function) :
	Left/right/up/down/enter
○ ~	USB Port (for 3.5G communication
	USB dongle Not Released Yet, for
0	wireless)
RESET	System Reset
IR	Remote Control Signal (IR) Received
	End
	LED Signal :
	Green—Power
	(on: ready /flash: reading/ Off : no
	power)
	Red—Micro SD status
(O)(O)	(on: ready /flash: Writing/ Off : no
	detecting)
	Yellow—GPS status
	(on: GPS Receiver connecting/flash:
	signal Receiving / Off : GPS disconnecting)
	Blue— Not Released Yet
MIC	
000	Microphone Receiver
MUTE	Microphone Button On/Off
REC	Menu Recorder Button (Record /
	Stop)
	Menu / Vfile / Exit
MENU	(push once: SET UP MENU)
	(Push twice : V file list)
	(Push triple: Exit)
MICRO SDHC	Micro SDHC Card Port
MICKO SDITC	





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	AV IN: Video&Audio Input/DC+5VOutput
AV IN AV OUT	AV OUT: Video& Audio Output/I/O Trigger Rec.
⊙ 5V IN	DC+5V IN(Positive in / Negative out)
GPS	GPS Port
	AV OUT STV IN

Remote Control Detail Introduction		1	2	3	4
		Power on/off	TV system	V file list	N/A
	5	N/A	Menu	Push Up	Exit
5	9	N/A	Push Left	Enter	Push Right
13 - KS - K	13	Mute on/off	Vfile Delete	Push Down	N/A
21	17	REC	FB	Play/Paus e	FF
55	21	Icon Display on/off	N/A	N/A	N/A

N/A: not available (color bar)









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Device Specification for 1Channel Application:

codec		codec	720P H.264 / MPEG4 platform
AV line	V line Audio/Video line In/out		Video and audio line In/out X1 channel
Audio input			inbuilt –MIC/Speaker
Recording	Scheme		Schedule
			-Always/Once/Daily/Weekly
			Event(pre-event & post-event)
			- Manual/Video motion detection/Trigger I/O
			Schedule & Event Mixed Model
	Video Size		File Size: 10/20/30 minutes
	File Format		.MP4
			GPS Data/Time record – Data Format
	Frame Size:		Full D1(720*480)/ CIF(360*240)
	Frame Rate:		1/5/10/15/30FPS
	Quality		Quality: High/ High- Medium/Medium/ Medium-Low/Low (Video quality)
	Auto File Closing Storage System		Automatically close recording file when the power lost
			Micro HDSD(2G/4G/8G/16G)
Playback	Device Player		No gap between two files
			File search :File list/Date search /Event
	PC Player	Standard	MPEG 4 player (Compatible)
		Exclusive	No gap between two files/Route Tracking by Google map/Snap shop
			GPS time & position
Indicator			Video loss and file delete alert by speaker/display
			Status LED Indicator: Power/GPS/Storage/Network
System Power	System Power In/power consumption		In 5V +-0.5 V 200mA (Positive in / Negative out)

ROHS IEC FG

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ICON by TV out information

Detail Introduction	Basic System Setting
	Play back status
	Mute On/Off
	Recording ON/OFF
	GPS status
	Micro SD card status

OSD PAGE 1: SET UP MENU -- PUSH MENU KEY ONCE

Record	Basic System Setting		
Record Schedule Event Misc.1 Misc.2	Codec:MPEG4 / H.264 (Compression types)		
Codec H.264 File Size 5 mins	File Size:5/10/15/30min (File time length)		
Quality High Resolution D1 Frame Rate 30 fps	Quality: High/ High- Medium/Medium/ Medium-Low/Low (Video quality)		
Schedule Enabled Event Enabled	Resolution:D1/CIF(Video resolution)		
	Frame Rate:1/5/10/15/30FPS (Video frame rate)		
	Schedule: Enabled/ Disabled(Record by preset schedule)		
	Event: Enabled/ Disabled (Record by I/O triggered or motion event)		
Schedule	Provide 4 plan settings. Start recording when fulfill parameter setting		
Record Event Misc.1 Misc.2	Type (scheme of recording) :Always/ Weekly/ Daily/Once		
Type: Once Index: 1	Always: non-stop recording		
Start Time: 2010/01/01 03:19 End Time: 2020/01/01 03:19	Weekly: Specific time recording for every week.		
Add Delete 1: Once 2010/01/01 03:19 - 2020/01/01 03:19 2: Daily 03:19 - 03:19 3: Weekly Fri. 03:19 - Wed. 03:19	Daily: Specific time recording for every day		



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	Once: Specific time recording for each time.
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	Index1/2/3/4 (4 settings) (Personal setting) Start Time YYYY/MM/DD/ TT:TT(Start time of recording)
	End Time YYYY/MM/DD/ TT:TT(End time of recording) Add /Delete (Enter or Delete setting data to 1/2/3/4)
Event	Provide 2 type event recordingsMotion and Trigger
Record Schedule Event Misc.1 Misc.2	Motion: On/OFF (Motion detection)
Motion Off Sensitivity Low	Sensitivity: Low/ Middle/ High (Sensitivity of motion detection)
√O Enabled	I/O: Enabled / Disabled: External trigger
Edge High Pre-Alarm Time 5 seconds Post-Alarm Time 10 seconds	Edge: Low / High (actively by external signal is low or high)
	Pre-Alarm Time : 5/10/15sec
	(Adjust the time period of pre-event for recording)
	Post-Alarm Time:10/20/30sec
	(Adjust the time period of post-event for recording)
Mics.1	DVR time setting and memory card alarm.
Record Schedule Event Misc.1 Misc.2	Clip Time: Enabled/ Disabled
Clip Time Disabled Cyclic Mode Cyclic	Cyclic Mod :Cyclic/Up to Full
Color Adjustment Press Enter Factory Reset Press Enter	Color Adjustment :Enter- Brightness/Contrast/Hue/Saturation
Warning Time 5 Min Video Warning Enabled	Factory Reset :Enter(Return to presetting)
Audio Warning Enabled v00.03.0053	Warning Time:5/10 Min
	Video Warning : Enabled/ Disabled (Warning by video when memory card is full)
	Audio Warning :Enabled/ Disabled (Warning by audio when memory card is full)











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Mics.2	RTC/GPS/GMT setting
Record Schedule Event Misc.1 Misc.2	RTC Time: YYYY/MM/MM TT:TT
RTC Time: 2010 / 04 / 02 08 : 58	GPS Sync: Enable/Disable GPS Time Correction
GPS Sync. Enabled Sync. Interval 1 Hour GMT Offset +8	Sync Interval 1 Hour/ 24 Hours (Simultaneously adjusted by RTC time)
TVOut Standard NTSC Format Start	GMT Offset (GMT time zone Setting)
	TV Out Standard :NTSC/PAL
	Format: Delete all data in SD memory card







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OSD PAGE 2: Video File Menu -- PUSH MENU KEY TWICE

Support 3 way file searches (Fast/ Data & Time/ Event):

NON-GAP automatically continuous file playback by time index in the system

Fast (Quick list for all recorded data)	Automatically list all files stored in SD card
	(Including all types of the files)
Fast Date/Time Event /mnt/20100402-094034-08.MP4 /mnt/20100402-094535-08.MP4 /mnt/20100402-095127-02.MP4 /mnt/20100402-095358-02.MP4 /mnt/20100402-095450-01.MP4 /mnt/20100402-095518-01.MP4 /mnt/20100402-095703-04.MP4 /mnt/20100402-095726-04.MP4	Select the playback file Push Joy stick to left or right is next page of the video file V file Example: 1 9 7 0 0 1 0 1 - 0 0 0 0 4 3 - 0 2 Year(%04d) Month(%02d) Day(%02d) - Hour(%02d)Minute(%02d)Seconds(%02d)-TriggerType(%02d) trigger io=01, motion=02, manual=04, schedule=08
Date Time (Data list by time period)	Automatically list all corresponding period files by date/ time.
Fast Date/Time Event Start Time: 2010 / 04 / 01 03 : 15 End Time: 2010 / 05 / 01 03 : 14 Search /mnt/20100402-095358-02.MP4 /mnt/20100402-095450-01.MP4 /mnt/20100402-095518-01.MP4 /mnt/20100402-095703-04.MP4	Start Time: YYYY/MM/DD/ TT:TT (Start time setting of Date/ Time) End Time YYYY/MM/DD/ TT:TT (End time setting of Date/ Time) Search: enter key Search data by setting time period
Event (Data list by event)	Automatically list all corresponding event files by date/ time.
Fast Date/Time Event Start Time: 2010 / 04 / 01 03 : 17 End Time: 2010 / 05 / 01 03 : 17 Search /mnt/20100402-095127-02.MP4 /mnt/20100402-095358-02.MP4 /mnt/20100402-095450-01.MP4 /mnt/20100402-095518-01.MP4	Start Time: YYYY/MM/DD/ TT:TT (Start time setting of Date/ Time) End Time YYYY/MM/DD/ TT:TT (End time setting of Date/ Time) Search: enter key (Search data by setting time period of event)







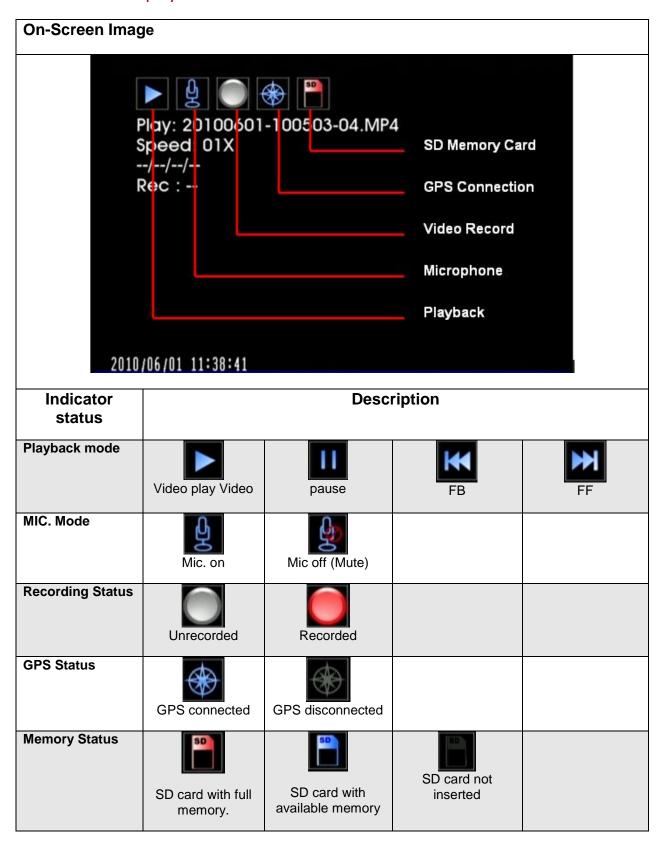




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On-Screen-Display Icon Introduction:







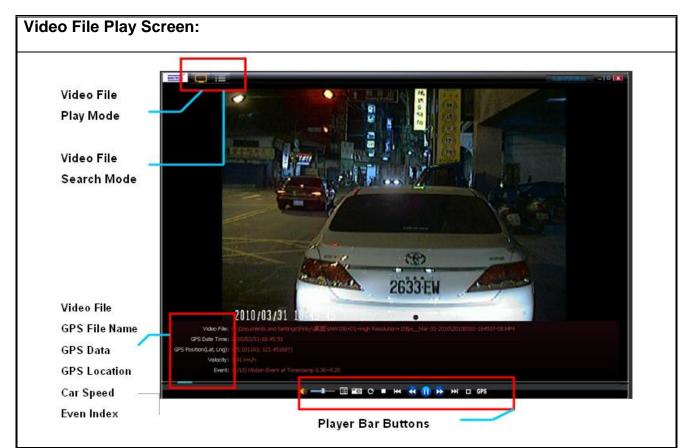




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Exclusive Player Introduction



Play Bar Button Function List:

•	Audio On	
×	Mute	
<u> </u>	Volume Adjustment	
E	Video file search	
° ()	Snapshot	
→	Go to the next file when end of the viewing file	
C	Repeat the viewing video file	
	Stop	
K	Go back to last file	
*	Rewind	
TT.	Pause	
>>	Forward	
M	Go to next file	
	Original size display	
đ	Full-screen display	
GPS	Google map information display	

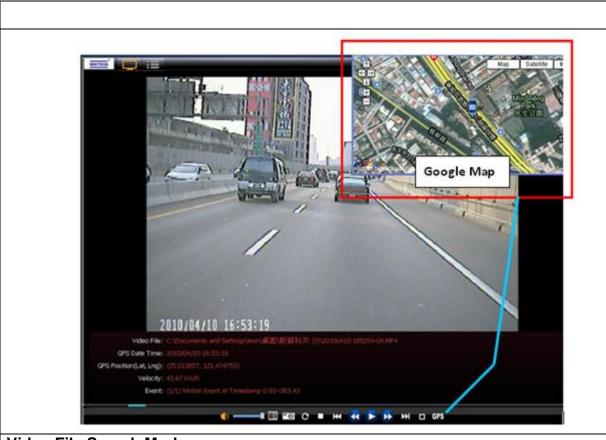
Video File Play Screen with Google Map:



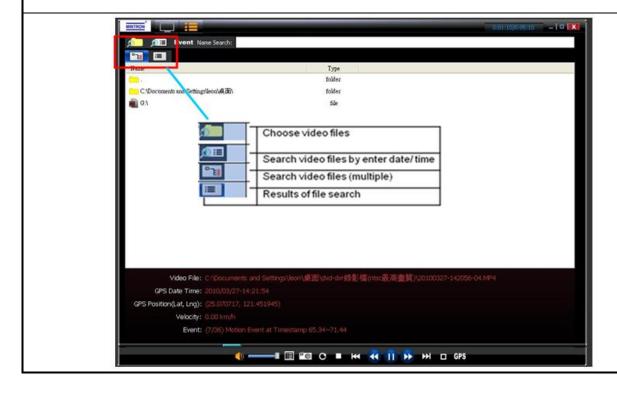
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Video File Search Mode:





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Do not remove the Micro SD card When the red LED LIGHT is flashing

Do not use the unstable power source to DVR device.

The standard video player is a trail version for users' evaluations.

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