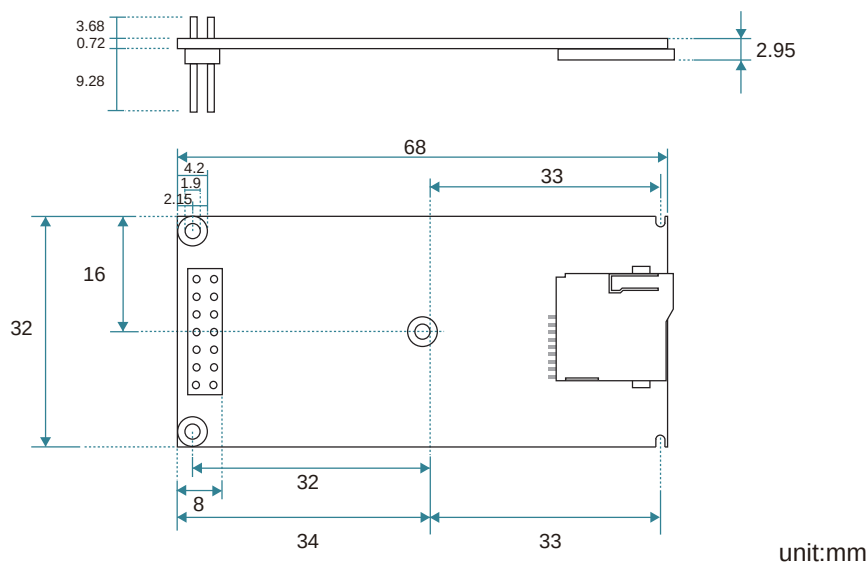




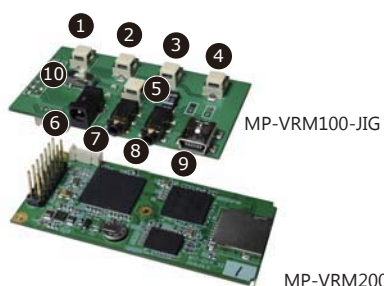
MP-VRM200



MP-VRM200HD

Model	MP-VRM200	MP-VRM200HD
AV recorder resolution	640x480(VGA) / max 30 fps.	1280x720(HD 720p) / max 30 fps. 640x480(VGA) / max 30 fps.
External Memory	Micro SD Card memory slot (support up to SDHC 128GB) ●	
Compression	H.264 (.mov) file	
Video	Synchronized audio & video recording/ playback	
Function	Time-lapse photography Self-timer Mode PreviewOSD displaying icons , SD card Update , Setup REC. Mode Normal REC. Mode, Loop overwrite REC. Mode , Motion detect , REC Mode , RTC date and time stamping, Snapshot: JPG IMAGE ,	
Video Input	analog signal input (NTSC/PAL)	
Audio Input	support	
Video Output	TV output	
Power	5V/350mA(NO camera)	5V/520mA(NO camera)
Zoom in/out function	N/A	YES
PC Interface	USB1.1	
Dimension	32 x 68 mm	

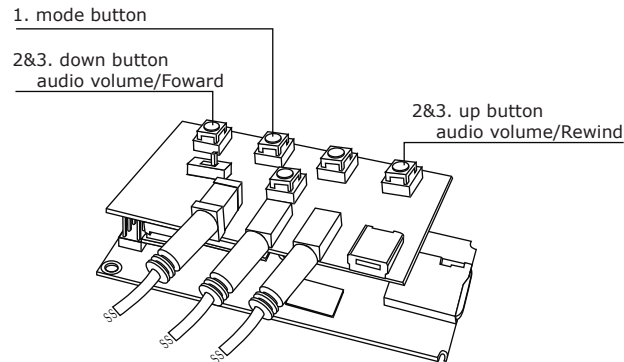
- ① Down/Forward
- ② Mode
- ③ Menu
- ④ Up/Rewind
- ⑤ REC./ok
- ⑥ +5VDC In
- ⑦ AV Output
- ⑧ AV Input
- ⑨ Mini USB
- ⑩ Power switch



Model	Resolution	Note
MP-VRM200	640x480(VGA) / max 30 fps.	with MP-VRM100-JPG
MP-VRM200HD	1280x720(HD 720p) / max 30 fps. 640x480(VGA) / max 30 fps.	
MP-VRM203	640x480(VGA) / max 30 fps.	
MP-VRM203HD	1280x720(HD 720p) / max 30 fps. 640x480(VGA) / max 30 fps.	

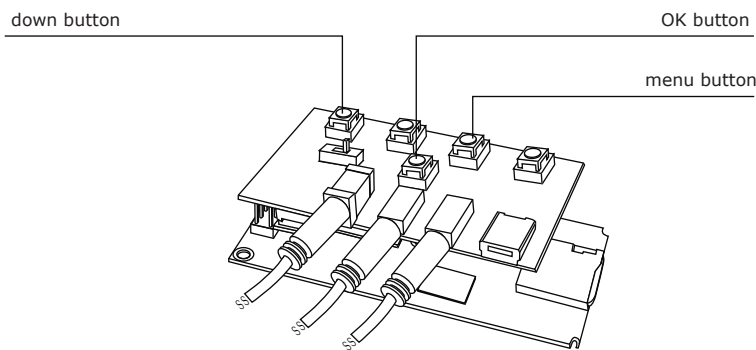
PREVIEW FILE

1. Preview video and image to press "mode button" 2 times under record mode. Select video to press "up button" and "Down button", then press "OK button" to preview. pause video to press "OK button" again.
(Preview video and image to press "mode button" 1 times to preview image under snapshot mode.)
2. To adjust audio volume to press "up button" and "Down button" in preview.
3. Forward video to press "down button" 2 times and Rewind video to press "up button" 2 times in preview.
(Preview video to be sure to insert micro sd card to DVR.)



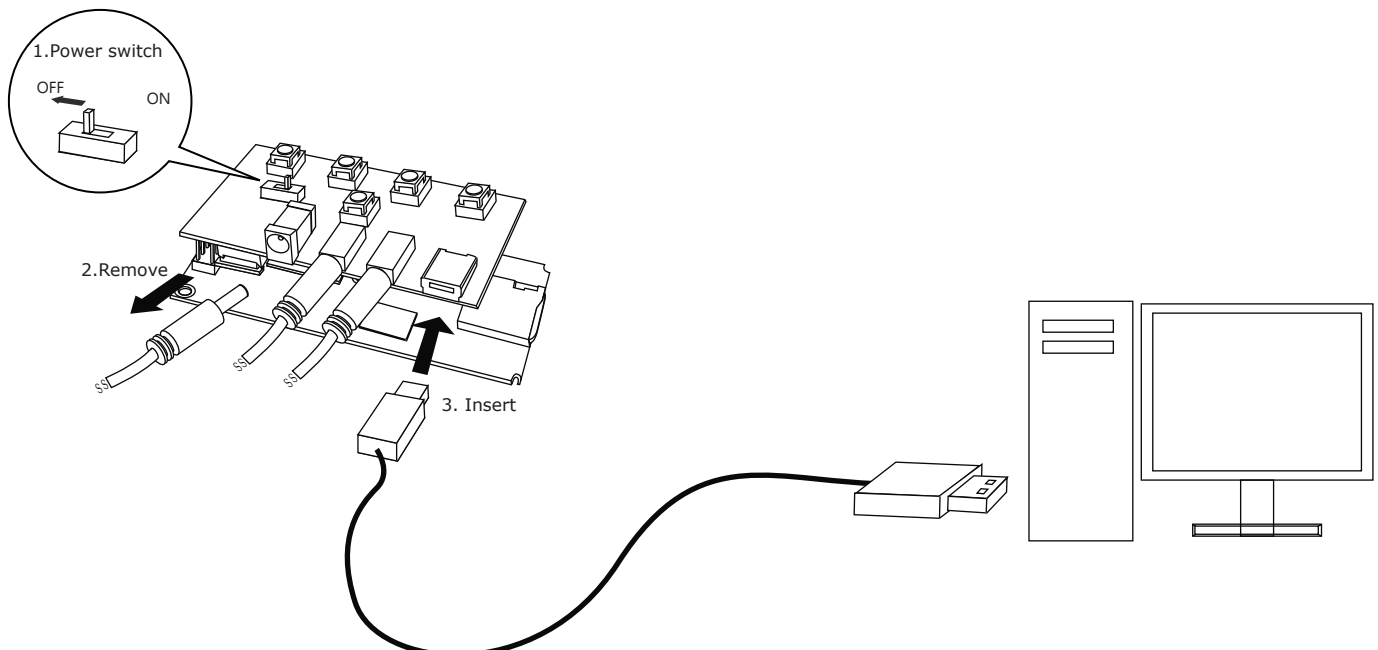
PREVIEW FILE-DELETE OR PROTECT

1. Delete file to press "menu button", then press "OK button" to delete.
2. Protect file to press "Down button" to select protect, then press "OK button" to Lock current, Unlock current, Lock all, Unlock all.



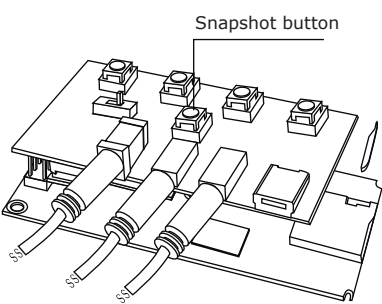
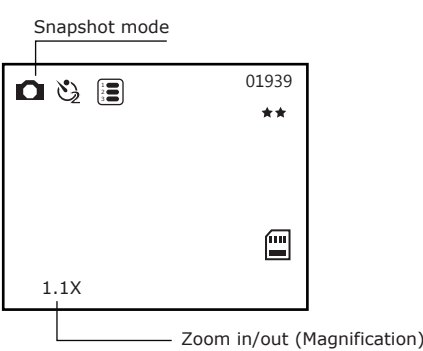
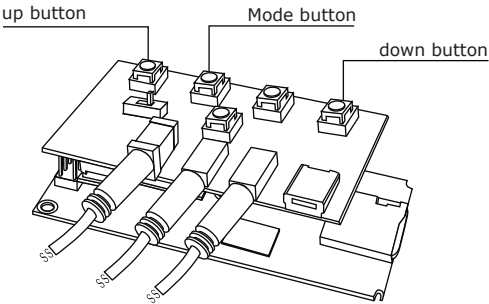
CONNECTION TO PC

1. Power switch turn off.
2. To remove adapter.
3. Using mini USB cable connect DVR to PC.



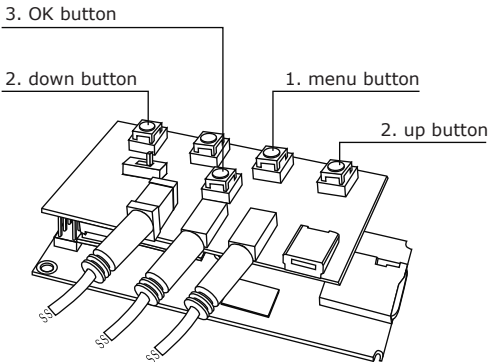
SNAPSHOT

1. Capture snapshot: Press "Mode button", then switch to snapshot mode, and then press "snapshot button". Image file format (.jpg)
(Zoom in image: Press "down button" ; Zoom out image: Press "up button".)
2. Go back to recording mode: Press "menu button" twice.



SNAPSHOT MENU-IMAGE

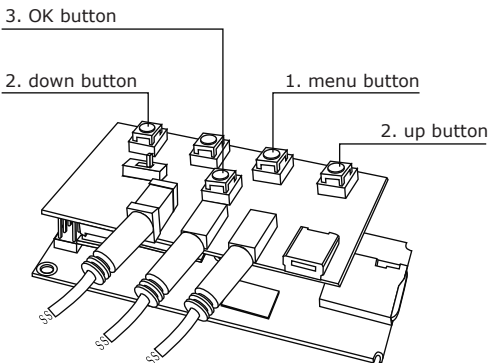
1. Image setup: Press "menu button".
2. Select item: Press "up button" or "down button". Press "OK button" to finish setup.

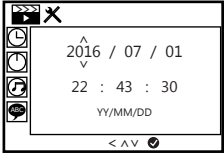


Item	Function	Description
Capture Mode	Single 2S Timer 5S Timer 10S Timer	Setting time for self-timer.
Sequence	off on	
Quality	Fine ★★ normal ★★ Economy ★	Image quality
Quick Review	off 2second 5second	Time to preview image after capture.
Date stamp	off on	

SNAPSHOT MENU-SETUP

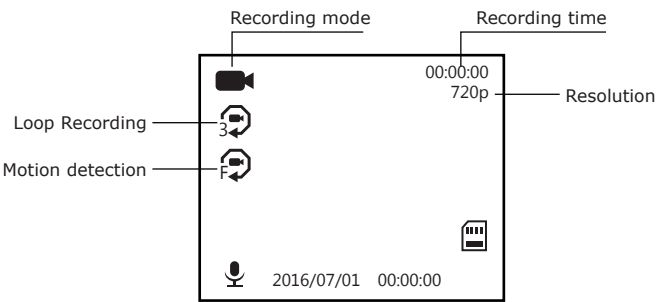
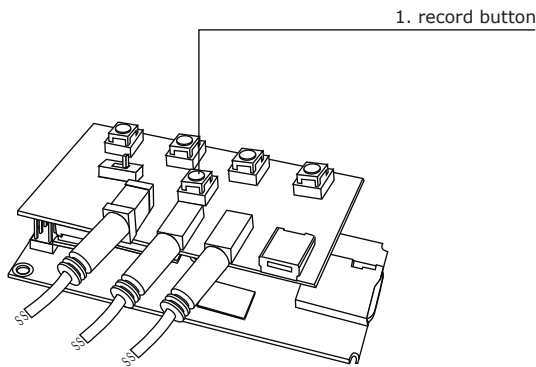
1. Setup snapshot: Press "menu button" twice.
2. Select item: Press "up button" or "down button". Press "OK button" to finish setup.



Item	Description
Date/Time	1. Setup time and date: Press "up button" or "down button". Press "OK button" to finish setup. 2. Go back to recording mode: press "menu button". 
Auto power off	off 1 minutes 3 minutes 5 minutes
Beep sound	off on
Language	English 繁體中文 簡體中文
TV Mode	NTSC PAL
Format	SD card format
Default Setting	Reset setting to defaults.
Version	M000.0606.0000.0524

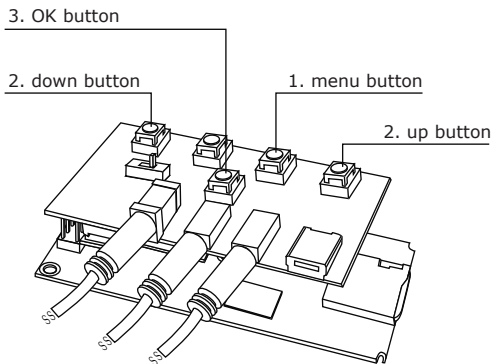
RECORDING

1. Press "record button" to record video. Video file format (.MOV)



RECORDING MENU-VIDEO

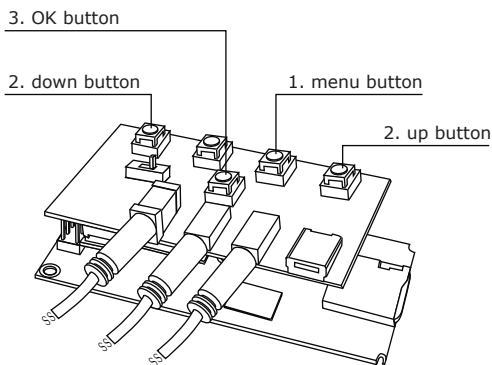
1. Video setup: Press "menu button".
2.Select item: Press "up button" or "down button". Press "OK button" to finish setup.

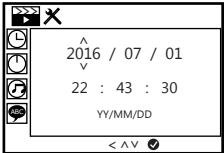


Item	Function	Description
Resolution	720p 1280x720 VGA 640x480	Recording resolution
Loop recording	off 1 minutes 3 minutes 5 minutes	Loop recording is the process of recording to erasing the previously recorded material and replacing it with the new content.
Motion Detection	off on	Motion detection is the process of detecting a change in the position of an object to record automatically.
Date stamp	off on	

RECORDING MENU-SETUP

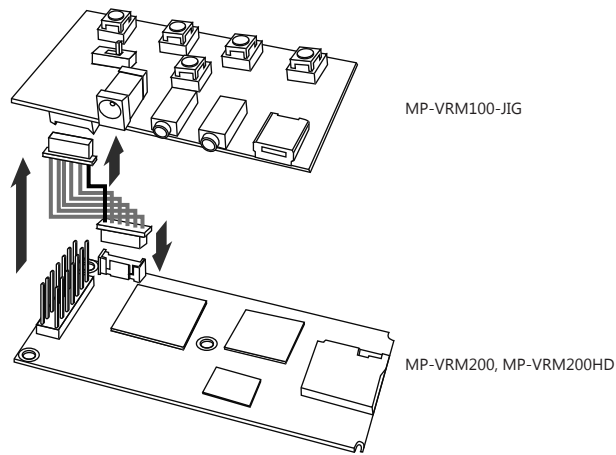
1. Video setup: Press "menu button" twice.
2.Select item: Press "up button" or "down button". Press "OK button" to finish setup.



Item	Description
Date/Time	1. Setup time and date: Press "up button" or "down button". Press "OK button" to finish setup. 2. Go back to recording mode: press "menu button". 
Auto power off	off 1 minutes 3 minutes 5 minutes
Beep sound	off on
Language	English 繁體中文 簡體中文
TV Mode	NTSC PAL
Format	SD card format
Default Setting	Reset setting to defaults.
Version	M000.0606.0000.0524

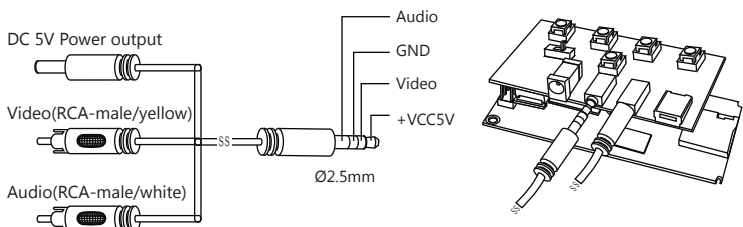
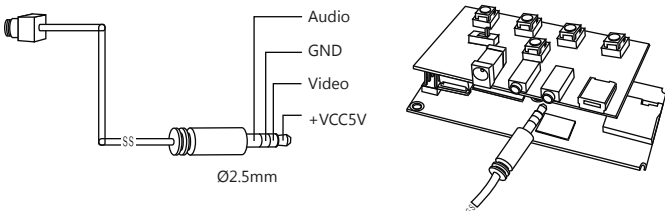
INSERT TO MP-VRM100-JIG

1. MP-VRM200 or MP-VRM200HD insert to MP-VRM100-JIG.



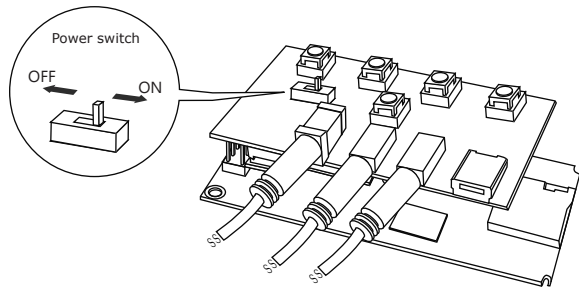
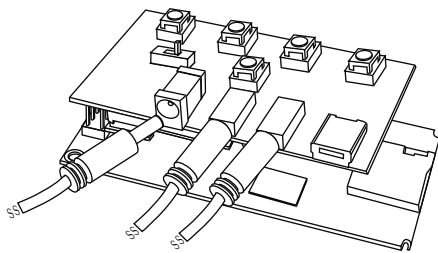
CONNECTING TO EQUIPMENT

1. AV INPUT: DVR power DC 5V(350mA)output for camera.
2. AV OUTPUT: AV cable connect to DVR according to diagram.



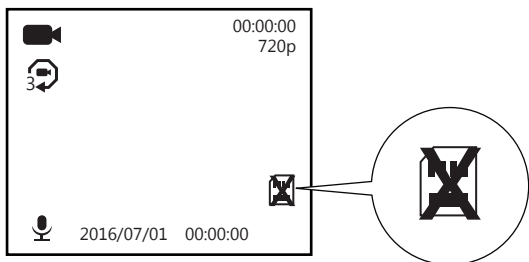
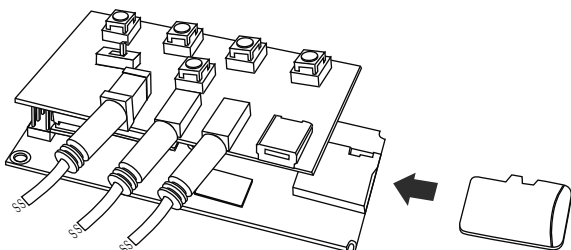
POWER INPUT

- 1. Adaptor connect to DVR.
- 2. When turning on the device, LED D1, D2 will be on. After the device is already turned on, LED D1, D2 will be OFF.
- 3. After turning on the device and entering AV_In Mode, at the same time AV_Out, no OSD shown on the screen

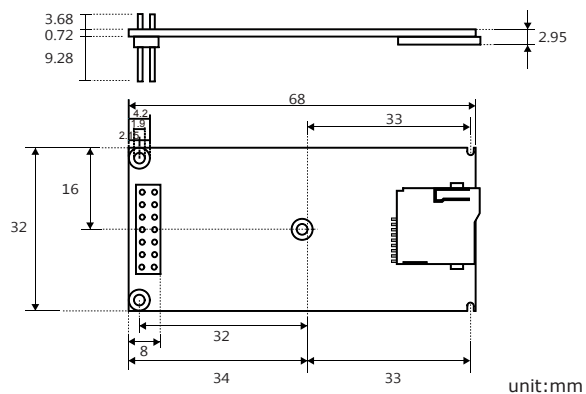
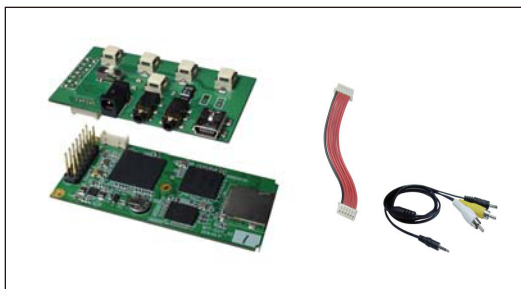


MICRO SD CARD SLOT

- 1. Insert micro SD card(support up to 64GB) to DVR according to diagram.
- When micoSD card is not inserted, the screen notification will show " no SD card".



MINI Mobile SD DVR Module Manual



Model	MP-VRM200	MP-VRM200HD
AV recorder resolution	640x480(VGA) / max 30 fps.	1280x720(HD 720p) / max 30 fps. 640x480(VGA) / max 30 fps.
External Memory	Micro SD Card memory slot (support up to SDHC 128 GB)	
Compression	H.264 (.mov) file	
Video	Synchronized audio & video recording/ playback	
Function	Self-timer Mode Preview OSD displaying icons , SD card Update , Setup REC. Mode Normal REC. Mode, Loop overwrite REC. Mode , Motion detect , REC Mode , RTC date and time stamping, Snapshot: JPG IMAGE ,	
Video Input	analog signal input (NTSC/PAL)	
Audio Input	support	
Video Output	TV output	
PC Interface	USB1.1	
Dimension	32 x 68 mm	

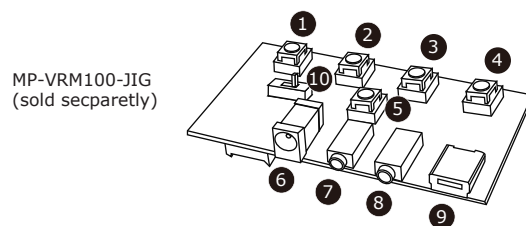
I/O Pin Define



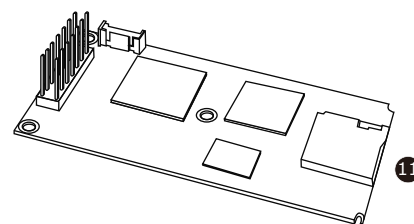
PIN14	PIN12	PIN10	PIN8	PIN6	PIN4	PIN2
PIN13	PIN11	PIN9	PIN7	PIN5	PIN3	PIN1

PIN	VRB03 I/O PIN	SIGNAL LEVEL
PIN1	(input)5V/350mA Power Supply	
PIN2	GND	
PIN3	(input)NTSC Composite Video in	
PIN4	(input)Mono Audio Line in	
PIN5	(output)NTSC Composite Video out	
PIN6	(output)Mono Audio Line out	
PIN7	(output)SD Card full or Error LED out(high: SD Card Full or Error low: Normal)	Off On Off
PIN8	(output)Recording/ LED out Recording-> high :SD Card Recording low: Stop	Off On Off
PIN9	(input)Rec Control pin(Normal High Low Active)	Rec Stop Rec
Pin 10	(input)mode pin input(Normal High low active)	mode
Pin 11	(input)Menu pin input(Normal High low active)	menu
Pin 12	Down(Normal High low active)	down
Pin 13	up(Normal High low active)	up

OVERVIEW



MP-VRM200
MP-VRM200HD



- 1 Down/Forward
- 2 Mode
- 3 Menu
- 4 Up/Rewind
- 5 REC./ok
- 6 +5VDC In
- 7 AV Output(Ø2.5mm/P.V.G.A)
- 8 AV Input(DC 5V/Ø2.5mm/P.V.G.A)
- 9 Mini USB
- 10 Power switch
- 11 Micro SD card slot