

DVR81xx Series - Image Recording Module

Description

This image recording module is a standard module which can be designed for various applications by firmware change. We will provide some standard firmware but also help customer making his own application.

Features

- ✓ Small in size: 80x55mm
- ✓ On board Flash memory (option)
- ✓ On board SD card (option)
- ✓ DC12V operation
- ✓ Allow 2 video channels input
- ✓ Video output to TV
- ✓ Trigger input – active low
- ✓ Alarm output – active low
- ✓ Keyboard input – 4 bits with common ground
- ✓ Preset NTSC or PAL TV system input
- ✓ Preset JPG/AVI for simple operation
- ✓ 2mm pin connectors



Connector Description

Note: the connectors shown below will depend on the firmware design, not applicable for all models.

Connector	Function	Remark
JP1	Select NTSC/PAL	Need to be selected before power up
J1	NC	For debug purpose,
J2	SD card slot	Support up to 2G SD card
J3	Select JPG/AVI	Need to be selected before power up
J4	Keyboard input	4 bit binary input
J5	Video out	2-pins, To output video signal to TV set
J6	Camera input	4-pins, for 2 ch video input and power supply
J7	Trigger input	3-pins, for 2 trigger input, active low
J8	Aux DC input/output	2-pins, for DC12V input/output
J9	Alarm output	2-pins, for alarm output, active low

Application Examples

The following examples are ready to production, detail spec and operation please refer to the relevant document

Model No	Application	Description
8100	General Purpose	Full function, 4 bit key input, with motion detect
8101	Door Phone	Single channel, single folder
8102	Taxi Cam	Single channel, 2-key operation
8103	Vehicle Black Box	2-ch switching, auto capture, 3sec/frame/channel
8104	Embedded to alarm system	Full function with serial communication to command
8105	Video recording only	Slow recording, VGA format, playback like VCR

Electrical Characteristics (at room temperature 25C)

Parameter	Condition	Min	Type	Max	Unit
Operation Voltage		7.5	12	13.5	V
Operation Current		238	145	128	mA
Standby Current	No Video o/p	215	130	120	mA
Alarm Output current	At 3V	-	-	40	mA
Trigger Input Voltage		0	-	0.9	V

Image and file storage information

Image format	Still picture: JPG, VGA (640x480) Video: MJPEG, QVGA (320x240), 5fps
File size per image	~80KB (HQ) ~40KB(SQ) (depends on scene)
File size per video clip(10sec)	~600KB
Max image number per folder	1024 images
Max folder number per card	1024 folders
Max memory size for SD card	2G