

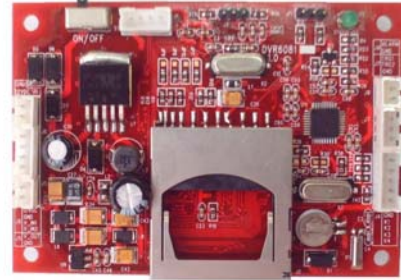
DVR8102 Image Recording Module for Taxi Cam

Description

This image recording module is specially designed for Taxi cam. Only 2 keys application, can record either JPEG or AVI by press the key switch.

Features

- ✓ Small in size: 80x55mm
- ✓ Single channel video input
- ✓ On board Flash memory (option)
- ✓ On board SD card (option)
- ✓ DC12V operation
- ✓ External trigger to capture a photo/AVI
- ✓ Video output to TV
- ✓ Preset NTSC or PAL TV system input
- ✓ Video capture: 10 sec, 5fps



Connector Description

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

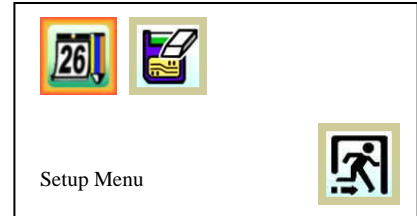
Connector	Function	Remark
JP1	Select NTSC/PAL	Need to be selected before power up
J1	NC	For debug purpose,
J2	SD card slot	Support up to 2G SD card
J3	NC	-
J4	NC	-
J5	Video out	2-pins, To output video signal to TV set
J6	Camera input	4-pins, for video signal in and power supply
J7	Trigger input	Active Low, TG1 for JPEG, TG2 for AVI recording
J8	Power	Aux power input, 12V DC, if J6 power no connected
J9	NC	-

Key Operation at different mode

Key	View Mode	Play Back Mode	Menu	1. D/T Set up 2. format
Capture/ Up (TG1)	1. Snap picture 2. press and hold 3 sec enter Playback mode	1. Display previous file 2. press and hold 3sec to delete	Choose next item	1. count up at D/T setting 2. move cursor to ok or cancel
Record/ Dn (TG2)	1. Record AVI 2. press and hold 3 sec enter Setup Menu	1. Play avi, 2. press and hold 3 sec Change to View Mode	Confirm	1. Move cursor next 2. Confirm to format

Operation Manual

1. TV system selection
The module can run under either NTSC or PAL TV system, need to short the jumper JP1 on board before power up.
2. At preview mode,
 - 2.1 press UP to snap a picture;
 - 2.2 press DN to record AVI for 10sec
 - 2.3 press and hold UP 3sec to enter playback mode
 - 2.4 press and hold DN 3sec to enter Setup menu
3. At playback mode
 - 3.1 Press UP to view previous file, only previous file, can't reverse.
 - 3.2 Press and hold for 3sec to delete current photo.
 - 3.3 If the file is AVI, press DN to start playing, can't stop in between
 - 3.4 Press and hold DN for 3sec to enter preview mode
4. In Setup menu
 - 4.1 Use UP to select item between D/T or format
 - 4.2 Use DN to confirm the setting
5. In D/T setup menu item.
 - 5.1 Use UP to change the date or time
 - 5.2 Use DN to move cursor to next position, until quit to preview;
6. In Format menu item.
 - 6.1 Use up to confirm, after format, if will be quit to preview.
 - 6.2 Use DN to cancel and quit



Application Note

Connection Diagram



Image and file storage information

Image format	Still picture: JPG, VGA (640x480) Video: MJPEG, QVGA (320x240), 5fps
File size per image	~60KB (depends on scene)
File size per video clip(10sec)	~500KB
Max image number per folder	1024 images, rolling over if files exceed 1024
No of folder	1 folder
Max memory size for SD card	2G

Folder and File Name Format

- i. Folder Name: Images
- ii. File Name: compose of 8 characters, representing month(x), day(y), hour(HH), minute(MM) and sec(SS)
Format: Xyhmmss.jpg
X: 1 -January, 2 - February and etc, A – Oct, B – Nov, C – Dec
Y: 1-9 means 1-9, A for 10, B for 11 and so on, till V for 31st
Eg. Image capture at Jan 16, 18:51:04 will be 1G185104.JPG