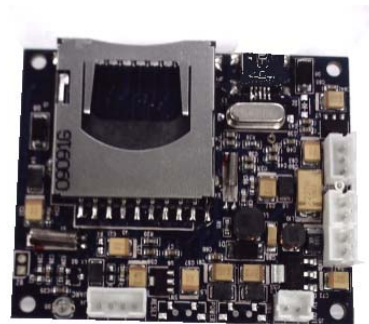


## Introduction

This module has been designed for serial communication. It allows user to control and retrieve the video data from the module remotely by using UART interface.

## Features

- Accept CVBS input, PAL/NTSC
- Manual capture or by Motion detect
- JPEG (720x576)
- AVI up to D1 30fps(25fps pal)
- UART command control and file transmission
- Support SDHC up to 16G
- Detail commands list provided
- 5V operation



## Functional Description

### 1. General

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>I. Date-Time preset</li> <li>II. TV system select</li> </ul> | <ul style="list-style-type: none"> <li>III. Preview or playback mode</li> </ul> |
|---|---|

### 2. Preview

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>I. Motion detect settings                             <ul style="list-style-type: none"> <li>A. MD on/off</li> <li>B. MD Sensitivity set</li> <li>C. MD Timeslot between 1-99 sec</li> </ul> </li> <li>II. Manual capture</li> <li>III. JPEG snap shot setting</li> </ul> | <ul style="list-style-type: none"> <li>A. sequence shot:1-3</li> <li>B. Photo quality</li> <li>IV. AVI capture setting                             <ul style="list-style-type: none"> <li>A. duration set 1-99 sec</li> <li>B. display size set</li> <li>C. frame rate set 1-30(25 in pal)</li> </ul> </li> </ul> |
|--|---|

### 3. Playback

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>I. previous / next file</li> <li>II. file name and size</li> <li>III. set current file</li> <li>IV. upload a file</li> </ul> | <ul style="list-style-type: none"> <li>V. delete file / folder</li> <li>VI. format SD card</li> <li>VII. AVI playing option (play / pause / stop)</li> </ul> |
|---|--|

## Module Specification

Storage	External SD card up to 16GB
Display Connector	Composite video out
Video Capture	720 x 576 (up to 30fps)
Photo Resolution	720 x 576 JPEG format
UART Baud Rate	115200 bps
Video Input	Composite video 1V p-p
Board size	50 x 60 mm

## Electrical Characteristics (at 5VDC)

Condition	Min.	Typ.	Max.	Units
Preview	210	215	220	mA
CaptureJPG(Peak @ capturing)	215	220	230	mA
CaptureAVI(Peak@ recording)	220	226	235	mA
Playback JPG	204	206	208	mA
Playback AVI	216	220	228	mA

### **File system and File Name Format**

1. Max 9999 images can be saved in the SD card. It depends on the size of SD card and images/video captured.
2. File Name format: 0000.xxx to 9999.xxx (xxx is JPG or AVI)  
E.g. 0123.jpg, 0124.AVI

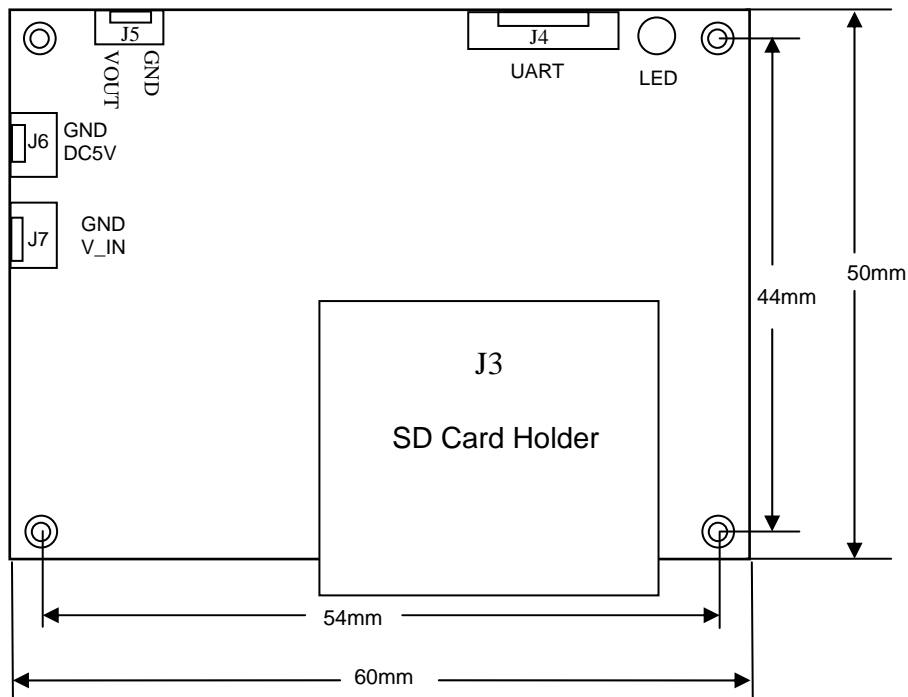
### **Connectors and their description**

Board Measurement: 50x60mm

Connector Description

J3	SD card holder
J4	UART port
J5	Video Output for TV monitor
J6	5V DC
J7	Video input

### **Board Dimension**

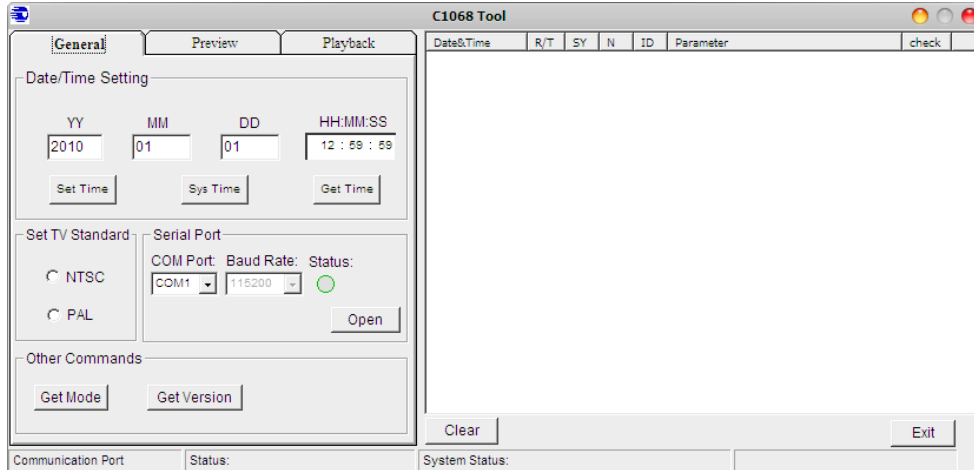


# C1068 Video recording module with UART interface

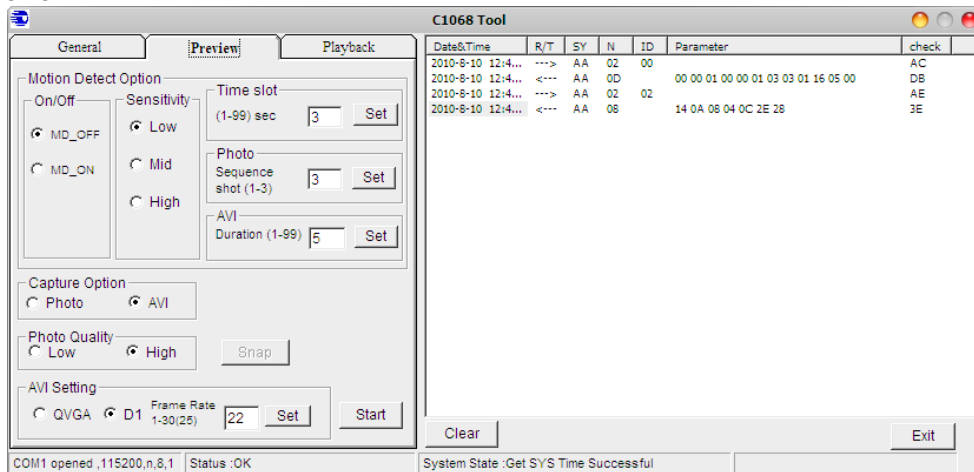
## Evaluation Kit and PC demo U/I

In order to help user to understand the control of the module using UART communication, we have developed the U/I for PC application, showing all the dialogs between PC and module. The U/I has been divided to 3 parts, general setup, preview and playback, refer to the following screen shots.

### Part I: General



### Part II: Preview



### Part III: Playback

