



~Image compression and encode recording  
by MPEG-4 ~

### Summary

CB4201B is an extended installed board that compresses, encodes, then records, and saves the images on SD memory card using MPEG-4 and G.726.

CB4201B allows user to go back and record the images with encoding before 3 axial acceleration sensor triggers. Image recording with encoding manages cipher key and inputs, or outputs of the data using secure IC function. This strengthens the security functions, and prevents alternation of recording images. It also adjusts the balance of brightness and darkness before the image is compressed, and has image correction function; user can record clearer images under any conditions.

### Features

- ▶ Compact extended installed camera board with higher functions
- ▶ Built in application software (MPEG-4 Module, image correction IC, acceleration sensor, SD card file system, NTSC encoder / decoder control)
- ▶ High pressure compressed images by MPEG-4, and sound by G.726, to create low capacity image file.
- ▶ Going back and record up to 35 sec using External/Internal acceleration sensor reaction
- ▶ Encode the images with secure IC that is tamper resistance
- ▶ Correct the images under bad conditions such as in the dark or with backlight, and create clearer images.
- ▶ Record image and sound in SD memory card long time

### Specification

MPEG-4	: CIF(352x288)、15fps	Motion Mode	: Auto/Manual、Sensor reaction
G.726	: Monaural、32kHz Sampling	System Control	: UART Serial command
Record File	: ASF ver.1.0 rev.01.13.00e	Expand connector	: USB (Option)
SD Memory Card	: 64MB ~ Up to 2GB	Image input/output:	Composite NTSC、ITU-R BT.656
Acceleration sensor:	Programmable (0.016G-2G)	Sound input/output:	Line
External Sensor ch.	: 3-ch(LVTTL)	Power Supply Voltage	: +3.3V (400mA TYP.)
Pre reaction recording time	: Up to 35 sec	Temp	: 0 ~ 70°C
Image Correction:	Strength (OFF ~ +24dB)	External Size	: 65mm × 95mm × 15mm

※1 We have Evaluation Board (DB2000B) with installation of CB4201B for test use

※2 It doesn't include CMOS image sensor for CB4201B construction and consumed electric current.