

ZR836442 Product Brief

Zoran Corporation
1390 Kifer Road
Sunnyvale, CA 94086-5305

Tel 408.523.6500
Fax 408.523.6501
www.zoran.com



Description

Zoran's CamMini 8 is a copy ready reference camera that is based on Zoran's COACH™ 8 (Camera On a CHip) processor. It is offered in two version; CamMini 8 CCD and CamMini 8 CMOS. The main features include TFT LCD, Internal Flash and SD card, IGBT flash, MPEG 4 and WMV Capture and playback, Direct printing mode, fast click-2-click and additional features from the COACH 8 features palette.

CamMini 8 CMOS comes with Micron's amd OmniVision(R) 3MP CMOS sensors. CamMini 8 CMOS is a low cost effective solution for entry grade cameras.

CamMini 8 CCD comes with Panasonic's 4Mpixel CCD sensor and Copal's zoom lens. CamMini 8 CCD is a cost effective high quality mid-range camera solution. It features full zoom camera functionality

with zoom and auto focus control and AGC adjustment, providing high image quality under a variety of conditions.

CamMini 8 is equipped with a highly efficient power module. This module allows long operating life in all modes as is powered by 2 AA batteries. Built-in voice audio codec of COACH 8 is utilized for audio recording and playback modes including movies.

CamMini 8 software includes: COACH firmware, COACH Host Control Embedded (HCE-8) reference code and production ready, WHQL certified PC drivers. The HCE features an attractive, production ready GUI and includes a multi-language support core, with a fully implemented English language. The USB connection modes include PictBridge direct printing, bulk-only mass storage and video streaming. PC drivers include Twain and WIA.

CamMini 8 CCD Reference Design



**Production-Ready Camera
Reference design**

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Feature List

- MPEG 4 and WMV video capture at 30fps VGA resolution
- Enhanced sensor signal processing with;
 - 12 bit processing for high dynamic range *1
 - Color Interpolation and Conversion
 - Image scalers
 - Automatic White Balance (AWB)
 - Automatic Exposure (AE)
 - Auto Focus *1
 - Edge Enhancement
 - Advanced Color Matching
 - Programmable Lens Shading compensation (Patent Pending)
 - Performance enhancement when using Zoran's CMOS sensor
- Smooth Digital Zoom - completes optical zoom in view, capture and clip capture modes
- IGBT flash circuit with support for red-eye reduction
- Resident NAND flash and SD card
- USB interface, including on-chip USB line drivers
- Camera power circuit that supports USB/battery switching
- Real-time JPEG compression with advanced bit rate control ensures superior visual quality for the required number of stored images
- Capture sequence of still images at high rate
- Advanced movie playback mode with pause/continue/fast forward/slow motion/ backward and zoom capabilities
- VGA Movie capture to the flash card at a rate of up to 30fps (depending on card speed)
- NTSC/PAL analog output to a TV monitor
- Interchangeable LCD; available with Casio
- Host Controller Embedded reference code
- Production-level user interface supporting English language and multi-language support core, provided as reference code
- Support in most of COACH 8 features

*1 - CamMini 8 CCD

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For more information, contact Zoran's Sunnyvale office or the office nearest you:

Shanghai, China	Shenzhen, China	Hong Kong	Israel	Japan	Korea	Taiwan
Zoran China Office	Zoran China Office	Zoran Asia Pacific Ltd.	Zoran Microelectronics Ltd.	Zoran Japan Office	Zoran Korea Office	Zoran Taiwan Office
Tel: 86-862-1642-71922	Tel: 86-755-8399-3777	Tel: +852-2-620-5838	Tel: +972-9-7699-555	Tel: +81-03-5475-1051	Tel: +82-2-761-7471	Tel: +886-2-2659-9797
Fax: 86-755-8378-0852	Fax: 86-755-8322-0889	Fax: +852-2-620-5238	Fax: +972-9-769-9556	Fax: +81-03-5475-1053	Fax: +82-2-761-7472	Fax: +886-2-2659-9595