



## AL37204C-DMB-A1 Reference Design for Video Scoping

Get to the root of problem with ref. design for Medical and Repair Industry Video Scoping

### Introduction

The AL37204C-DMB-A1 demo product is a reference design for applications that require a straight-forward, economical video processing solution that can be adapted into Video Scoping applications used in the **Medical Industry and Repair Industry**. These industries share the need to gain viewing access to areas that are otherwise difficult to get to. For Medical use, these applications may include devices used for surgeries, endoscopies, dental work and bodily cavity examinations etc.

For the Repair industry, this product design can be adapted for scoping devices used to gain easy access to crawl spaces in buildings or to view difficult angles in tight spaces during automotive repair.

This product uses AverLogic's AL37204 and AL244 chipsets that provide fully configurable video processing with multi-video display. Furthermore, this product can freeze and capture different viewing angles or regions and display them in separate windows for comparison.

This product also contains an MCU 8051 processor and a C code programming interface, providing engineers with a familiar platform that promotes faster development and hastens time-to-market.

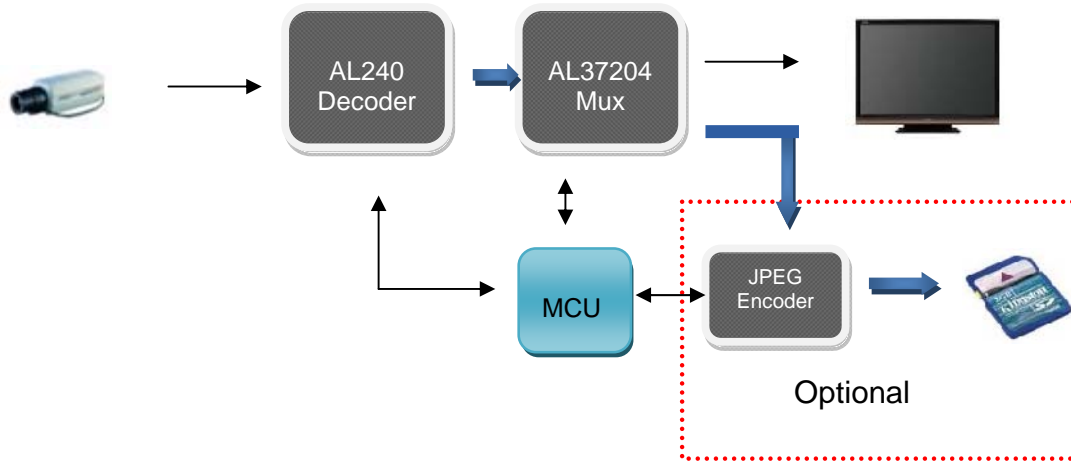
### Advantages

- Test and evaluate AL37204C-DMB-A1 quickly; 5-minute setup with step-by-step quick guide.
- Low cost means higher margins, especially for medical equipment.
- Faster development, faster to market
  - Complete technical documentation for quick engineer reference.
  - Full C-Code source disclosure for unhindered development.
  - Table oriented scripting approach saves on coding time for developer.

### Features

- Video Input/Output
  - 1 CVBS inputs
  - 2 CVBS outputs
  - NTSC:720x480x60 Fs
  - PAL:720x576 50 Fs
  - NTSC/PAL auto detect
- Control interface
  - Intuitive, easy-to-use Key Pad
- Display Mode
  - 1, 2, 4 window display modes
  - Freeze up to 4 images simultaneously for comparison in 4 windows.

## Block Diagram



## Applications

- Medical Video Viewer
- IRIS Analyze Viewer
- Cosmetology Comparison Viewer
- Dental Color Analyzer
- Instrument Endoscope

## Design Materials Included

- Hardware
  - Evaluation Board
  - Reference Design Schematic
  - Hardware Application Notes
- Firmware
  - MCU8051 Source Code
  - Software Application Notes
- AL37204/AL244/AL240
  - AL37204C/AL244C/AL240C Datasheets

## Ordering Information

Part number	Description
AL37204C-DMB-A1-SDK-CD	Design Materials
AL37204C-DMB-A1	Demo Board