STV-674/502V-R01

Reference design for STV0674 Digital Processor and VS6502VF VGA CMOS Sensor

DATA BRIEFING

Features

- **Camera Mode**
  - Still image capture
  - Movie clip capture (synchronized audio\video)
  - Audio Clip capture
- **WebCam Mode**
  - DirectShow Driver Support
  - Real-time video – up to 30fps VGA
  - Real-time audio
  - DirectCap – sample DirectShow application
- **Native Mass Storage (NMS) Mode**
  - Flash memory
  - Behaves as removable disk drive for data storage when tethered
  - ~400Kbyte/s Write ~500Kbytes/s Read.

Description

The STV-674/502V-R01 reference design is intended to represent an actual production solution for a flashdrive memory with built-in camera.

Images, audio and video clips are stored in the DOS-formatted on-board NAND. When the board is tethered over USB it will appear as either a disc drive in NMS mode or a USB composite device in webcam mode.

The VS6502V/F is a VGA resolution SmOP sensor module. SmOP technology combines the image sensor and fixed focus lens system in a single module.

The RDK includes the following:

- Reference design board
- Schematic and BOM
- USB cable
- Application software
- User manual

Minimum Requirements

- IBM PC or compatible
- Windows 98SE, Win ME, Win2K + SP3 or WinXP + SP1 Operating System
- DirectX8.1 or later
- Graphics Adapter capable of 800x600 resolution, 64k colours (“thousands of colours”)
- CDROM drive
- PII 266 with 64M RAM (Win98/ME) or 128M RAM (Win2K/XP)
- NMS supported on Mac OSX & MacOS9

Technical documentation

Datasheet
STV0674 - CMOS digital camera signal processor
User manuals
User manual for STV-674/502V-R01 reference kit.
Tri- mode camera reference design for STV0674 companion processor and VS6502V VGA CMOS sensor with nand flash

Ordering Information

Sale type	Description
STV0674T100	CMOS digital camera signal processor
VS6502V015	Sensor module with socket option.
VS6502F015	Sensor module with flex option.
STV-674/502V-R01	Reference design for STV0674 digital processor and VS6502V CMOS image sensor with VGA output resolution

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