STV-674/501C-R01

Reference design for STV0674 Digital Processor and VV6501 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.
  - AVICreate – application to convert movie clips to standard AVI format

Description

The STV-674/501C-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 RDK includes the following:

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

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-674/501C-R01 reference kit.
Tri- mode camera reference design for STV0674 companion processor and VV6501 VGA CMOS sensor with nand flash

Ordering Information

Sale type	Description
STV-674/100T-E01	Evaluation kit for STV0674 imaging digital signal processor
VV6501C001	CMOS image sensor with VGA resolution
STV-674/501C-R01	Reference design for STV0674 digital processor and VV6501 CMOS image sensor with VGA output resolution
STV0674T100	CMOS digital camera signal processor

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