



**THE DATASHEET OF  
STV-674/502V-R01**





# 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

<b>Datasheet</b>
STV0674 - CMOS digital camera signal processor
<b>User manuals</b>
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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