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# STV-974/552S-R01

## Reference design for STV0974E imaging mobile DSP and VS6552 sensor module

DATA BRIEFING

### Features

- 1.8 V operation
- Parameterized ViewFinder
- Still and live capture modes
- Supports up to 30 frame/s VGA streaming to minimize motion distortion
- Support for low noise, high performance VisionLink to SmOP (Small Optical Package)
- Automatic exposure control including anti flicker
- Automatic white balance
- Pixel defect correction
- DSP noise reduction system
- Arbitrary image cropping
- Multiple image scaling options
- MJPEG compression
- Multiple digital video interfaces supported
- RGB, YCbCr and JPEG data coding options
- Downscale 'MMS Zoom' feature
- I<sup>2</sup>C communications
- Ultra low power standby mode

### Description

The STV-974/552S-R01 demonstration board is designed to showcase the features of the STV0974E and VS6552 chipset. Connecting through a high speed USB 2 interface, the included software allows for effective demonstration of the chipset features.

### Evaluation Kit Contents

- Demonstration board fitted with R01 (flex) sensor head
- Tabletop tripod
- USB 2 cable
- Application CD
- User Manual

### Recommended Requirements

- IBM PC or compatible
- 2.0 GHz Intel Pentium 4 processor (1.0 GHz minimum)
- 256 MB RAM
- Windows 2000 + SP4 or Windows XP
- AGP graphics card capable of 1024 x 768 display, 32-bit color
- Intel or NEC based USB 2 host controller

### Ordering Information

Sale type	Description
STV0974E	Imaging mobile DSP
VS6552V015/T2	CMOS image sensor module
STV-974/552S-E01	Evaluation kit for STV0974E and VS6552, includes flex and socket plug-ins
STV-974/552S-R01	STV0974E/VS6552 Demonstration board comprising VS6552 SmOP mounted via flex attach
STV-974/552S-R02	STV0974E/VS6552 Demonstration board comprising VS6552 SmOP mounted on a socket

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