



# 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     |

Information furnished is believed to be accurate and reliable. However, STMicroelectronics assumes no responsibility for the consequences of use of such information nor for any infringement of patents or other rights of third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of STMicroelectronics. Specifications mentioned in this publication are subject to change without notice. This publication supersedes and replaces all information previously supplied. STMicroelectronics products are not authorized for use as critical components in life support devices or systems without express written approval of STMicroelectronics.

The ST logo is a registered trademark of STMicroelectronics

© 2003 STMicroelectronics - All Rights Reserved

Purchase of I<sup>2</sup>C Components by STMicroelectronics conveys a license under the Philips I<sup>2</sup>C Patent. Rights to use these components in an I<sup>2</sup>C system is granted provided that the system conforms to the I<sup>2</sup>C Standard Specification as defined by Philips.

STMicroelectronics GROUP OF COMPANIES

Australia - Belgium - Brazil - Canada - China - Czech Republic - Finland - France - Germany - Hong Kong - India - Israel -Italy  
- Japan - Malaysia - Malta-Morocco - Singapore - Spain - Sweden - Switzerland - United Kingdom - United States

[www.st.com](http://www.st.com)