

# Low cost and high performance with next generation 2-Mp camera

## VS6725: UXGA mobile camera module



STMicroelectronics' VS6725 is an UXGA CMOS color digital camera that combines very small physical size with excellent imaging performance. Manufactured using ST's advanced IMG175 CMOS imaging process, it integrates a high-sensitivity array, a fully featured digital imaging processing pipe and camera control functions into a single die.

The VS6725 package offers a 60% reduction in package volume when compared with the existing 2-Mpixel product, the VS6724.

The VS6725 can stream UXGA video data at up to 15 fps, outputting YUV/RGB data.

### Main features

- UXGA (1.92 Mpixels) sensor array
- 1/5 inch optical format
- Fully featured ISP (image signal processor) pipeline
- Internal register reconfiguration via I<sup>2</sup>C
- Digital video interface
  - ITU-R BT.656-4 YUV (YCbCr) 4:2:2 with embedded synchronization signals
  - 8-bit parallel video interface with external horizontal and vertical synchronization signals
  - Output video formats: YCbCr 4:2:2, RGB (444 and 565)
- Derivative products will be available
  - CSI-2 output compatible with socket attach
  - CSI-2 output compatible with surface-mount attach
  - ITU- R BT.656-4 YUV (YCbCr) 4:2:2 with embedded synchronization signals compatible with surface-mount attach
- Ultra-low standby power consumption

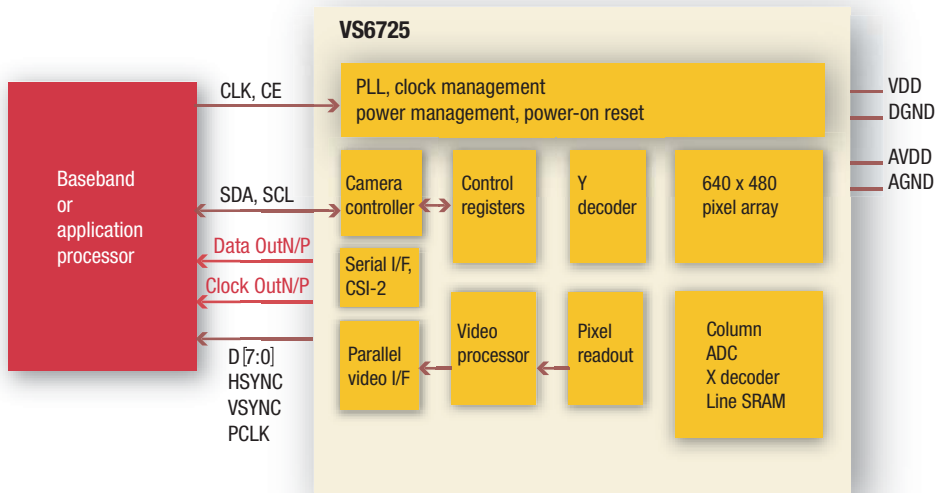
### Benefits

- State-of-the-art packaging technology delivering smallest PCB footprint and ultra-low Z profile
  - 6.0 x 6.0 x 4.0 mm
- System-on-chip architecture with ITU-R interface well understood by the market
- Full product integration support from STMicroelectronics
- On-board PLL supporting wide range of input clock frequencies

### Applications

- Mobile phones
- PDAs
- Mobile games platforms
- Video conference cameras
- Security cameras

## VS6725 block diagram (showing optional CSI-2 interface)



## VS6725 package options

Part number	Description	Packing
VS6725Q045	UXGA, system-on-chip camera suitable for socket attach to host PCB. ITU-R BT.656-4 output format	Tape and reel
VS6735Q045	UXGA, system-on-chip camera suitable for socket attach to host PCB. CSI-2 output format	Tape and reel

## VS6725 demonstration kits and accessories

Part number	Description
MOB-725-D01	Demonstration kit that is supplied with a MOB-725-P01 subassembly. The demonstration kit transfers video data via USB2 to a host PC. Software supplied with the demonstration kit allows the images to be viewed and sensor parameters to be adjusted.
MOB-725-P01	Small plug-in module containing VS6725Q045



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Full product information at [www.st.com](http://www.st.com)

Order code: FLVS67250208

