

AVERLOGIC



*AverLogic MPEG-4/2/1
Audio /Video Encoder
AL9V576*

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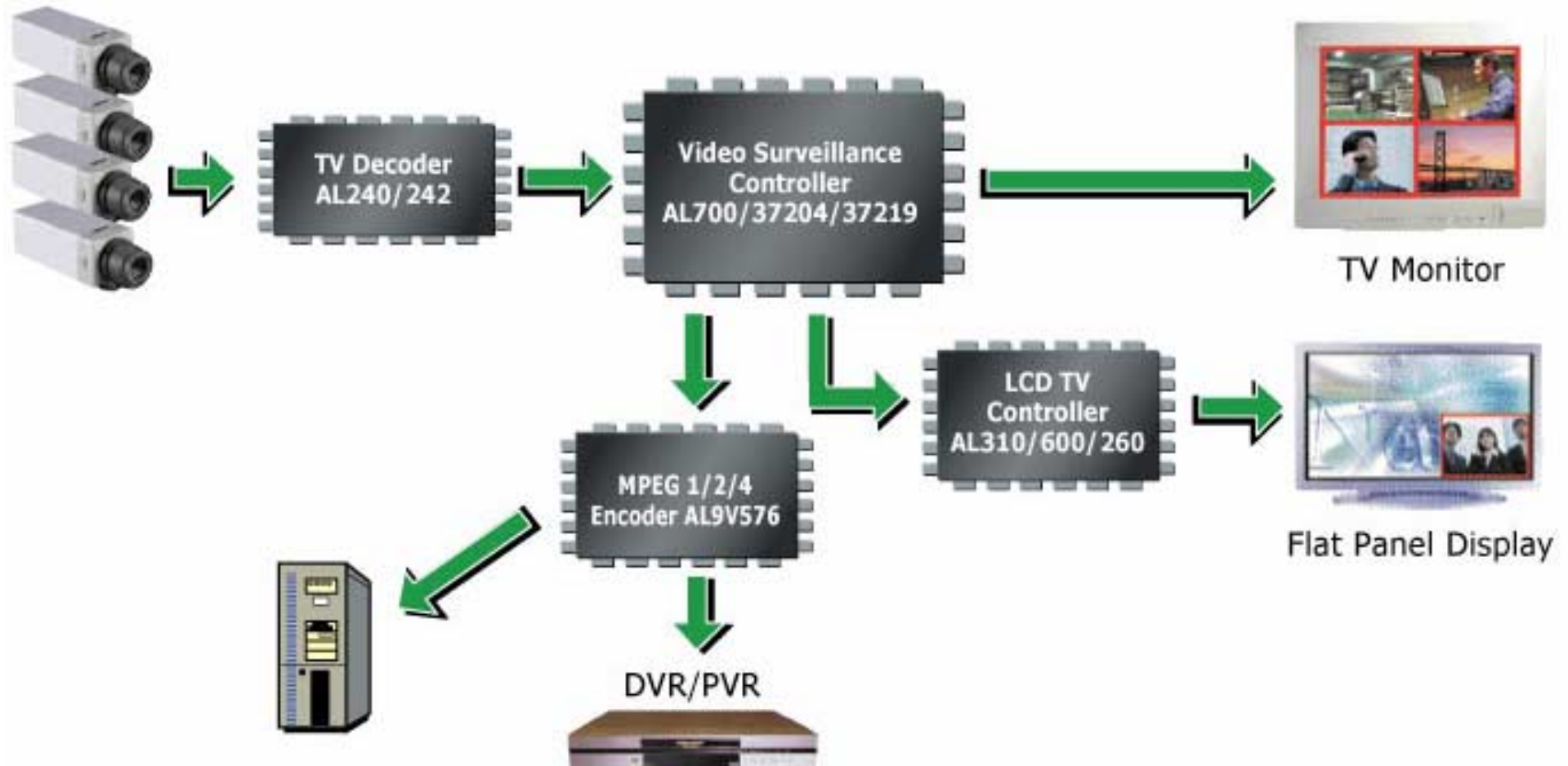


Company Introduction

- Founded in California, USA, 1996
- Established an office in Taipei, Taiwan, 1998
- Opened the design center in Hsinchu, Taiwan, 2001
- Have been in Taiwan OTC market since End-2002
- Opened a China supporting office in 2004
- Fabless semiconductor manufacturer
- IC design for Video related products
- Over 25 worldwide distributors



AverLogic's Turn-Key Solution for DVR/PVR





AL9V576 General Features

- ◆ *High quality real-time MPEG-1, MPEG-2 MP@ML, and MPEG-4 ASP encoding*
- ◆ *Variable compression resolution from QCIF to Full D1*
- ◆ *High quality both temporal and spatial filtering to support Speckle and Recursive Noise Reduction*
- ◆ *Internal Horizontal & Vertical scaling down filters to support input resolution up to HDTV (Both Interlaced & Progressive)*
- ◆ *Variable GOP structure: I, IP, IBP, IBBP*
- ◆ *Large Motion Estimation search window for I, P and B frame*
- ◆ *Variable or Constant Bit Rate up to 20Mbps*
- ◆ *MPEG-1 layer II/III encoding for audio processing with variable bit rate*



AL9V576 General Features –Cnt'd

- ◆ *Multiplexing of video and audio streams according to MPEG-2 system standard (ISO13818-1)*
- ◆ *Supports Video and Audio Elementary Stream (ES), MPEG-1 System Stream, MPEG-2 Program Stream & Transport Stream (PS & TS), and MPEG-4 System Stream format*
- ◆ *Recordable VCD/DVD stream format*
- ◆ *User data/VBI data extraction & insertion (including Closed Caption and Teletext)*
- ◆ *Available in 160-pin LQFP & 256-TFBGA packages*
- ◆ *Low Power operation (1.8V & 3.3V)*



AL9V576 Target Applications

- ***PC-based Video Surveillance*** (PCI/USB H/W MPEG-4/2 A/V Capture Devices, etc)
- ***Standalone Video Surveillance*** (IP Camera, Surveillance Digital Audio/Video Recorder, DVR, Video Server, etc)
- ***Handheld Device*** (MPEG4 Players/Viewers, PMP, PDA, etc)
- ***Other Potential Applications*** (PVR, Network Video Phone, Wireless TV, etc)



AL576 EVBs & Demo SW



AL242 + AL9V576 PCI TV
Capture EVB



AL242 + AL9V576 USB2.0 TV
Capture EVB

AL576 EVB Demo Software

PC Demo Software