

IVCS - 7008 Series

New

Fanless Embedded System Multi-Channel NTSC/PAL D1 Video Capture Solution



Features

- 2nd Gen Intel® Core™ i7 with on-board 2GB DDR3 memory and one DDR3 SO-DIMM slot (system max. 8GB)
- Dual combo (10/100/1000 baseT(X) or 1000 baseSFP slot) Gigabit LAN ports, supporting Intel® AMT 7.0
- Supports two USB 3.0 ports, four USB 2.0 ports, one SATA 6GB/s port, one CAN-bus port and eight COM ports (four with isolation)
- Supports maximum 8-channel NTSC/PAL D1 real time video monitoring
- Supports Windows® 7 and Linux Fedora 64-bit/32-bit
- Provides C++ SDK compatible with Microsoft DirectShow and reference sample code for second development

Introduction

The IVCS-7008 series is a high performance fanless embedded system for multi-channel video processing and video/audio monitoring. The IVCS-7008 series is capable to perform 30fps/25fps in each channel with NTSC/PAL D1 video and audio format. Based on real-time video capturing and high performance hardware design, the IVCS-7008 series is suitable to be the central management system (CMS) for intelligent video monitoring and transportation surveillance system. All purposes in vehicle system, parking lot management server, banking security and building surveillance can be achieved through the IVCS-7008 series. With software development kit (SDK), the IVCS-7008 series is an ideal solution for system integrators to facilitate project and product implementation and fulfill a variety of applications and requirements.

Applications



Bank Surveillance

- Multi-channel monitoring and analyzing
- SDK for developing intelligent systems
- Regional detection and face recognition
- Human behavior analysis and detection



Parking Lot Surveillance

- Surround multi-channel monitoring
- SDK for analytic transportation system
- Plate recognition and suspect tracking
- Parking and payment system



Transportation System

- Multi-channel inside/outside monitoring
- Lane change detection and vehicle
- Pedestrian and object detection
- People counter and face recognition

Specifications

Model Name	IVCS-7008-R10	IVCS-7004-R10
Platform	TANK-700-QM67/2G-R10	
Processor	Socket G2 supports Intel® Core™ i7-2710QE quad-core 2.1G processor	
System Chipset	Intel® QM67	
OS	Windows® 7 64-bit (W764) Windows® 7 32-bit (W732) Linux Fedora OS 64-bit (LF64) Linux Fedora OS 32-bit (LF32)	
Display	VGA+HDMI	
Memory	On-board 2GB memory One 204-pin 1333/1066 MHz DDR3 dual-channel SDRAM SO-DIMM slot (system max. 4GB)	
LAN	2 x RJ-45 (one with Intel® AMT 7.0 support)	
Wireless	Optional	
USB Port	4 x USB 2.0 port on the rear panel 2 x USB 3.0 port on the front panel	
COM Port	4 x RS-232 port by DB-9 connector on the rear panel 2 x RS-232 port by RJ-45 connector on the front panel 2 x RS-232/422/485 port with isolation by RJ-45 connector on the front panel	
CAN Bus	1 x Phoenix terminal block on the front panel	
Storage	Built-in 500GB 2.5" SATA 6Gb/s or SATA 3Gb/s HDD with SSD support	
Video/Audio Capture	Two IVCME-C604-R10 capture cards pre-installed Eight analog video input via BNC connectors on the front panel	One IVCME-C604-R10 capture card pre-installed Four analog video input via BNC connectors on the front panel
Audio	Audio jacks (line-out/mic-in) on the rear panel	
Expansions	1 x PCIe Mini slot 1 x SO-DIMM slot	2 x PCIe Mini slot 1 x SO-DIMM slot
Indicators	Indicators are located on the front panel, including: AT/ATX mode indicator HDD status indicator CPU over-heat warning indicator Power one: 9V~28V DC terminal block input indicator Power two: 9V~28V DC adapter input indicator	
Antenna Connectors	Two on the front panel One on the rear panel	
Switches	AT/ATX, ACC Mode1 and ACC Mode2 switches on the rear panel	
Chassis Construction	Extruded aluminum alloy for fanless support Heavy duty steel sheet	
Chassis Dimensions	310mm x 200mm x 62mm	
Chassis Color	Sliver black	
Operating Shock	Half-Sine Shock Test 5G/11ms, 3 shocks per axis	
Operating Vibration	MIL-STD-810F 514.5 C-2	
Humidity	5% to 95%, no condensation	

Ordering Information

	Part Number	Description
Windows® 7 64-bit	IVCS-7008-B/SC/W764-R10	Fanless embedded system, Intel® QM67 chipset, 2nd Generation Intel® Core™ i7-2710QE processor, 2GB DDR3 on-board memory, 2.5" 500GB HDD, built-in 8-channel NTSC/PAL capture solution, Windows® 7 64-bit
	IVCS-7004-B/SC/W764-R10	Fanless embedded system, Intel® QM67 chipset, 2nd Generation Intel® Core™ i7-2710QE processor, 2GB DDR3 on-board memory, 2.5" 500GB HDD, built-in 4-channel NTSC/PAL capture solution, Windows® 7 64-bit
Linux Fedora 64-bit	IVCS-7008-B/SC/LF64-R10	Fanless embedded system, Intel® QM67 chipset, 2nd Generation Intel® Core™ i7-2710QE processor, 2GB DDR3 on-board memory, 2.5" 500GB HDD, built-in 8-channel NTSC/PAL capture solution, Linux Fedora 64-bit
	IVCS-7004-B/SC/LF64-R10	Fanless embedded system, Intel® QM67 chipset, 2nd Generation Intel® Core™ i7-2710QE processor, 2GB DDR3 on-board memory, 2.5" 500GB HDD, built-in 4-channel NTSC/PAL capture solution, Linux Fedora 64-bit
Windows® 7 32-bit	IVCS-7008-B/SC/W732-R10	Fanless embedded system, Intel® QM67 chipset, 2nd Generation Intel® Core™ i7-2710QE processor, 2GB DDR3 on-board memory, 2.5" 500GB HDD, built-in 8-channel NTSC/PAL capture solution, Windows® 7 32-bit (Embedded)
	IVCS-7004-B/SC/W732-R10	Fanless embedded system, Intel® QM67 chipset, 2nd Generation Intel® Core™ i7-2710QE processor, 2GB DDR3 on-board memory, 2.5" 500GB HDD, built-in 4-channel NTSC/PAL capture solution, Windows® 7 32-bit (Embedded)
Linux Fedora 32-bit	IVCS-7008-B/SC/LF32-R10	Fanless embedded system, Intel® QM67 chipset, 2nd Generation Intel® Core™ i7-2710QE processor, 2GB DDR3 on-board memory, 2.5" 500GB HDD, built-in 8-channel NTSC/PAL capture solution, Linux Fedora 32-bit
	IVCS-7004-B/SC/LF32-R10	Fanless embedded system, Intel® QM67 chipset, 2nd Generation Intel® Core™ i7-2710QE processor, 2GB DDR3 on-board memory, 2.5" 500GB HDD, built-in 4-channel NTSC/PAL capture solution, Linux Fedora 32-bit