VISION BOX VB-115/VB-216 Series

Fan-less Embedded Vision Inspection Platform

Features:

- Complete Fan-less cooling design
- Celeron M 1.5GHz or Core Duo 1.66GHz Mobile, Low power consumption CPU
- 2GB DDR2 533 memory
- 266x high speed CF card for Embedded XP/SP2 operation
- Built-in 2 ports 1394a (400Mb per port)
- 2.5" HDD supported
- One 32-bit, 33MHz PCI Bus supported

Applications:

- Semiconductor
- Component inspection
- Manufacturing quality control
- Food and beverage inspection
- Microscopy and medical imaging
- Biometrics

Introduction:

VISION BOX Series is a fan-less platform designed for AOI (Automation Optical Inspection) applications. The VB-115 offers Celeron M 1.5GHz CPU with 2GB DDR 266 memory and it is ideal for being a general vision inspection equipment. The VB-216 offers 1.66GHz high-speed mobile Core Duo CPU with 2GB DDR2 533 memory for advanced high-speed inspection applications.

The VISION BOX H model is well suited for standard Windows OS as general development environment and C model matched with Windows XP embedded OS is an alternative choice for reliable and long-time operation.

VISION BOX Series Specification

Model No.	VB-115C	VB-115H	VB-216C	VB-216H
CPU	Intel Mobile CeleronM 1.5GHz		Intel Core DuoT2300E 1.66GHz	
Chipset	Intel 910GM		Intel 945GME	
L2 Cache	1MB		2MB	
Memory	2GB DDR2 533		2GB DDR2 533	
OS Storage	4GB 233x Compact Flash Card	2.5" 80GB SATA Hard Disk	2GB 266x Compact Flash Card	2.5" 80GB SATA Hard Disk
OS support	Windows XP Embedded SP2	Windows XP Embedded SP2	Windows XP Embedded SP2	OS excluded Windows XP/SP2 Recommended
1394 ports	1394a ports (400Mbps bandwidth x 2 ports)			
PCI Bus	One 32-bit/33MHz PCI Slot, Not support PCI long card.			
Front I/O Interface	2 x USB 2.0 Ports, ATX power on/off switch, Status LEDs (HDD Access, Power, LAN)			
Rear I/O Interface	PS/2 connector, VGA connector, 4 x USB 2.0 ports, 2 x 10/100 LAN ports, 4 x Serial Ports via one DB44 connector (3 x RS-232, 1 x RS-232/422/485), DVI Interface, 1 x MIC-in, 1 x Speaker-out, 2-pin connector output for remote power on/off switch, DC-in power connector for +12V ~ +30V DC power input		PS/2 connector, VGA connector, 4 x USB 2.0 ports, 2 x GbE LAN ports, 4 x Serial Ports via one DB44 connector (3 x RS-232, 1 x RS/232/422/485), DVI Interface, 1 x MIC-in, 1 x Speaker-out, 2-pin connector output for remote power on/off switch, DC-in power connector for +12V ~ +30V DC power input	
Power	DC to DC power designed for on-board, supporting from 12 to 30VDC One External 120W AC adapter (Input: 100–240VAC, 2A, 50/60Hz; Output:19VDC)			
Dimensions	195 mm (W) x 268 mm (D) x 107 mm (H)			
Construction	Fan-less design with aluminum cooling chassis			
Environment	Operating temperature Ambient air temperature : 0 ◦ to 40 ◦ VISION BOX case (Surface Temperature of Chassis) 5 ◦ to 45 ◦ (W/HDD) -10 ◦ to 50 ◦ (W/CF card only) Storage temperature: -20 ◦ to 80 ◦ Relative humidity: 10% to 90% (Non-condensing)			
Certification	CE, FCC A			

Software support:

Multi-languages Image OS

To continue promoting the ICP DAS's policy for building standard, free and open product architecture, VISION BOX Series will offer system main chipset drivers and Windows XP Embedded Image OS in recovery DVD where kinds of image OS are provided as follows.

Image OS version	Standard Image OS	Japanese Image OS	Korean Image OS
Language support	English Traditional Chinese (Unicode only) Simplified Chinese (Unicode only)	English Japanese (Unicode only)	English Korean (Unicode only)

What if the OS version that you require is not included above; then a customized one is available with charge.

Development Framework

VISION BOX image OS has built in the following major programming tools for development framework.

- Visual C++ 6.0
- Visual Basic 6.0
- Boland C++ Builder 6.0
- .NET 2003

ICP DAS Products

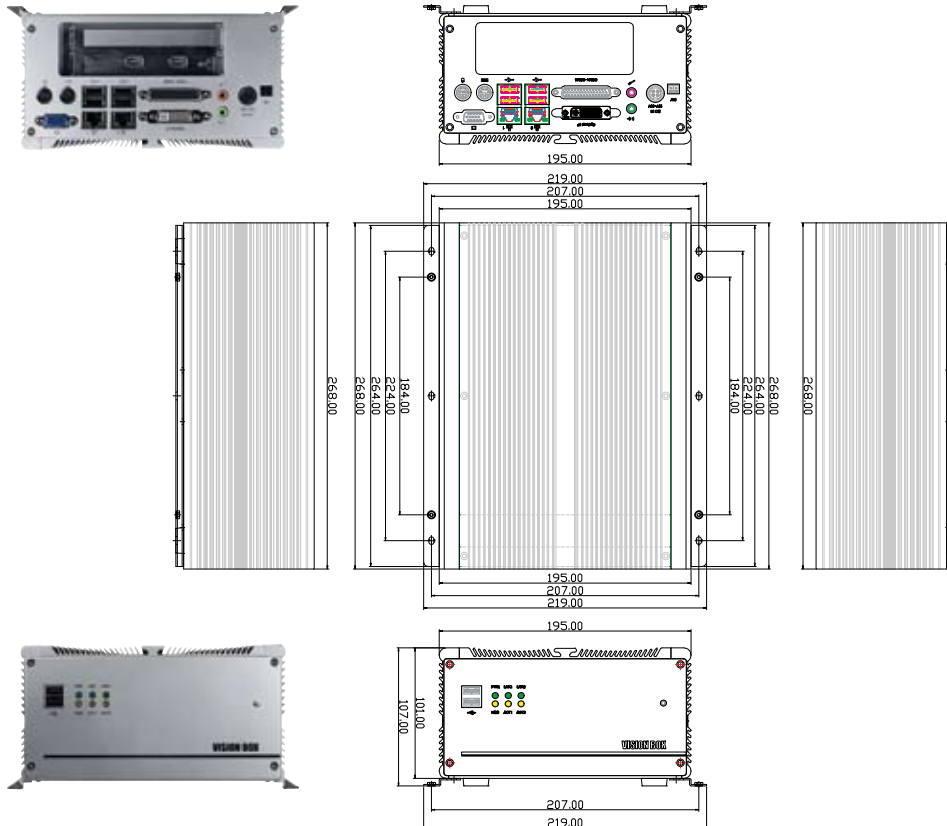VISION BOX image OS has built in following ICPDAS products driver and utilities.

- MAVIS Driver with EzView and EzView_Fly utilities
- PISO-PS400 Driver with PCEzGo utility
- ET-M8194H Driver with EzMove utility

Touch Panels

VISION BOX image OS has support following Touch Panel drivers.

- ELO Serial and USB Touch Panel serial
- eGalax Serial and USB Touch Panel serial
- SALT Touch screen driver compatible devices

Dimension:

Ordering Information:

Model No.	Product Description
VB-115C-C10	Vision Box (Celeron M 1.5G, 2GB DDR2 533, 4GB 233x CF with XPe License,)
VB-115H-H10	Vision Box (Celeron M 1.5G, 2GB DDR2 533, 2.5" 80GB SATA HDD with XPe License)
VB-216C	Vision Box (Core Duo 1.66G, 2GB DDR2 533, 2GB 266x CF with XPe License)
VB-216H	Vision Box (Core Duo 1.66G, 2GB DDR2 533, 2.5" 80GB SATA HDD)

PAC

I8K Module

Vision Box

Industrial Camera

PCI Control Card

Remote Control

Remote I/O

Accessories