JMC
Systems Engineering

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User Manual

Model – SC502MC SDI

1、 Introduction

SC502MC SDI is a high-quality, high-performance capture device. It supports 1 channel of video inputs with SDI connectors.

2、 Specification

Product Series Hardware Specification	
Model	SC502 N1 MC SDI
Max. FPS	30/25fps @ 1920x1080p
Recording Mode	Software Compression, Real-Time Mode
Product Photo	
Dimension	Software Compression, Real-Time Mode
Interface	Minicard (PCIe Gen2 x1)
Video Input	1 × SDI
Display Video Format	YUY2
Display Video Resolution	1920×1080p@30/25/24fps 1920×1080i@60/50fps 1280×720p@60/50fps 720×480i@60fps 720×576i@50fps

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Recording Video Resolution	1920×1080p@30/25/24fps 1920×1080i@60/50fps 1280×720p@60/50fps 720×480i@60fps 720×576i@50fps
Audio Input	SDI Embedded Audio Audio L/R (2 × RCA through wafer connector to RCA cable)
Audio Format	Stereo / 16-bit / 32000 ~ 48000Hz
SDK	VC++ / .NET / VB / V4L2
System Requirement	
OS Support	Windows XP / Vista / Windows 7 Linux 2.6.14 or Higher (32-bit and 64-bit)

3、 Hardware Installation

Before You proceed

Please note below precautions before any install/uninstall operations:

- ✓ ALWAYS turn off the system before hardware installation/un-installation.
- ✓ ALWAYS unplug the power cord from the wall outlet/socket before hardware installation/un-installation.
- ✓ ALWAYS touch a safely grounded object or metal object before touching the device.
- ✗ DO NOT touch any devices before the system is fully off.
- ✗ DO NOT touch any electrical and semiconductor components on the device, especially ICs on board.

4.1 Card and Driver Installation

Step 1: Turn off the system and unplug power cord from wall outlet/socket.

Step 2: Remove the computer system case cover.

Step 3: Plug capture device into an available PCIe slot on motherboard.

Step 4: After hardware installation is completed, then install the driver.

4.2 Signal Source Connection Diagram