



## User's Manual

SDI to Composite, S-Video and Component Video  
and Stereo Audio

# AT-SDI230

MODEL: AT-SDI230



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## INTRODUCTION

The Atlona Technologies AT-SDI230 is designed to convert SDI to composite video, S-video, component with 2 channel audio. The SDI230 has 1 x SDI input, 1 x SDI loop out, and 1 x component analog output (3 x BNC outputs), S-Video (2 x BNC outputs), and 1 x composite video (1 x BNC output). This SDI converter features phoenix audio connections giving the capabilities for 2 channel audio. Input formats can be selected by the dip switches located on the side of the device. The compact design of the AT-SDI230 makes using this converter easy to hide away from sight.

## PACKAGE CONTENTS:

- AT-SDI230 Converter
- Power Supply
- Operation Manual

## FEATURES:

- SDI to Analog Composite, S-Video and Component Video conversion
- 2 x channel stereo Audio Outputs
- Broadcast quality with 10 bit processing and 24KHz audio sampling
- Supports NTSC/PAL/SECAM

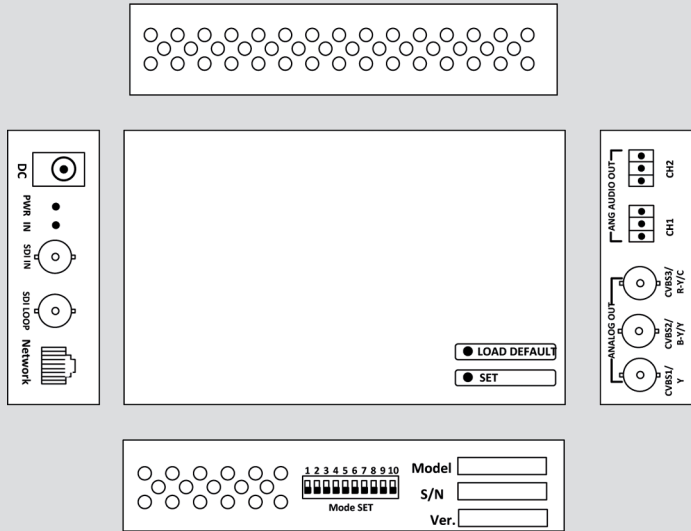
## SPECIFICATIONS:

DIGITAL VIDEO INPUT	
Input interface	1 x SDI, BNC connector
Impedance	75Ω
Format	SMPTE 259M-C; 270Mb/s
ANALOG VIDEO OUTPUT	
Output interface	3 x BNC connection (Can be set as Composite Video/S-Video /Component Video)
Impedance	75Ω
ANALOG AUDIO OUTPUT	
Output interface	2 x Audio Outputs, (2 x 3pin phoenix connectors)
Impedance	600Ω
VIDEO OUTPUT	
Output interface	1 x SDI(LOOP-OUT), BNC connection
Impedance	75Ω
Format	SMPTE 259M-C ; 270Mb/s
Eye pattern	800mV±10%
Rise time	750~1500PS (20%-80%)
Fall time	750~1500PS (20%-80%)
The difference between rise and fall	≤500PS
Jitter	<0.2UI
Status indicator	(Indicate by shining or extinguishing of the red and green LED)
Reserved net port	RJ45
Power consumption:	
Power	12VDC 1.5A
Dimension (inch)	4.84 x 3.62 x 1.14

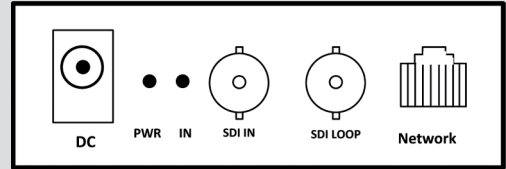
MODEL: AT-SDI230

**PANEL DESCRIPTION**

OUTLOOK

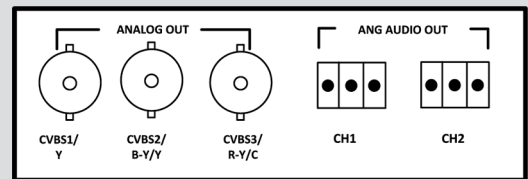


LEFT PANEL



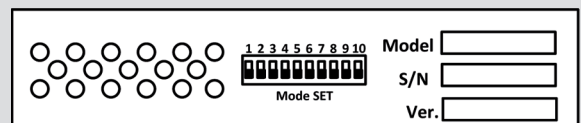
DC: 12V 1.5A.  
 POWER LED : Power indicator lights green when the power is in normal status.  
 INPUT LED : Signal indicator lights green when the SDI is connected.  
 SDI INPUT : BNC interface, digital video signal input (support embedded SDI).  
 SDI LOOP-OUT : BNC interface, it also supports bypass SDI input  
 Network : Reserved, not active on this model

RIGHT PANEL



ANALOG OUTPUT : Analog Video Output Supports: Composite Video, S-Video, Component Video  
 i. When a composite signal is connected, the BNC output 1,2,3 all output Composite video signal;  
 ii. When a component signal is sent, from left is: Y, R-Y, B-Y;  
 iii. When S-Video signal is sent, from left is: Y, C, the third interface is not active.  
 AUDIO OUTPUT : 2 x 3pin phoenix connector interface, outputs analog audio signal.

FRONT PANEL



Mode Set : Dip Switch selection to achieve different functions from the converter

**SPECIFIC MEANINGS SWITCH:**

	DIP switch	1	2	3	4	5	6	7	8	9	10	
1	Auto gain	M/A	/	/	/	OFF	OFF	OFF	OFF	ON	Adjustment	
2	Analog video output	CVBS input	M/A	/	/	OFF	OFF	ON	OFF	ON	Adjustment	
3		YUV input	M/A	/	/	OFF	OFF	ON	ON	OFF	Adjustment	
4		YC input	M/A	/	/	/	OFF	OFF	ON	ON	ON	Adjustment
5	Analog audio output	G1 CH1&CH2	M/A	/	/	/	ON	ON	OFF	OFF	OFF	Adjustment
		G1 CH3&CH4	M/A	/	/	/	ON	ON	OFF	OFF	ON	Adjustment
		G2 CH1&CH2	M/A	/	/	/	ON	ON	OFF	ON	OFF	Adjustment
		G2 CH3&CH4	M/A	/	/	/	ON	ON	OFF	ON	ON	Adjustment
		G3 CH1&CH2	M/A	/	/	/	ON	ON	ON	OFF	OFF	Adjustment
		G3 CH3&CH4	M/A	/	/	/	ON	ON	ON	OFF	ON	Adjustment
		G4 CH1&CH2	M/A	/	/	/	ON	ON	ON	ON	OFF	Adjustment
G4CH3&CH4	M/A	/	/	/	ON	ON	ON	ON	ON	ON	Adjustment	
6	Set PAL system	M/A	/	/	/	ON	OFF	OFF	OFF	ON	Adjustment	
7	Set NTSC system	M/A	/	/	/	ON	OFF	OFF	ON	OFF	Adjustment	

Remarks: Power switch UP=OFF DOWN=ON

DIP indicates 10 positions:

1) The first one indicates manual or automatic.

Select ON to make the converter go into manual status. You can set the function by a dip switch; Select OFF to make the converter go into auto status. The function can be set by the computer.

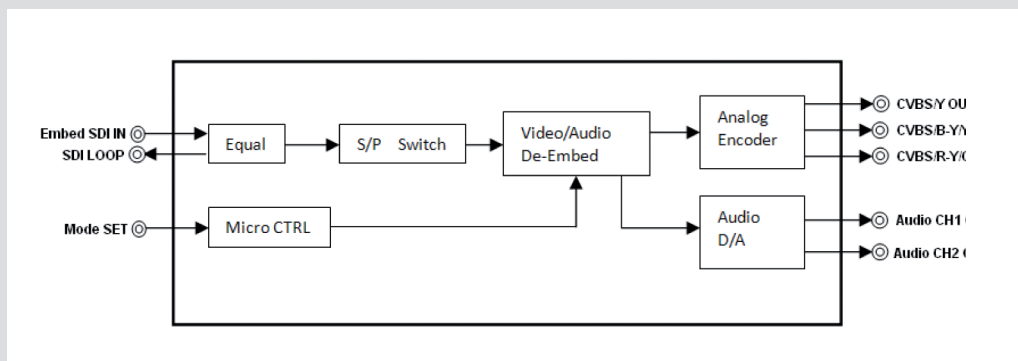
2) Selecting Dip Switch # 10 ON indicates that the dial switch is under adjustment status. Users can adjust the switch to achieve the functions in the table previously listed in the manual

Selecting OFF, assures equipment is under usual working condition and the dip switches are not active.

LOAD DEFAULT: recover factory default by toggling the button. (Initial parameters are: auto gain, Composite Video output, PAL system)

\*SET=DIP switch OK button. After the adjustment of DIP, toggle the "SET" in order to activate the adjustments

**BLOCK DIAGRAM:**



## SAFETY AND NOTICE:

Atlona's AT-SDI230 has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, these units should be used with care. Please read and follow the safety instructions to protect yourself or others from possible injury and to minimize the risk of damage to the unit.

- Follow all instructions and warnings marked on this unit.
- Do not attempt to service this unit yourself, except where explained in this manual.
- Provide proper ventilation and air circulation and do not use near water.
- Keep away the objects that might damage the device and assure that the placement of this unit is on a stable surface.
- Use only the power adapter, power cords and connection cables designed for this unit.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.

## WARRANTY:

The SELLER warrants the AT-SDI230 to be free from defects in the material and workmanship for 3 years from the date of purchase from the SELLER or an authorized dealer. Should this product fail to be in good working order within this 3 year warranty period, The SELLER, at its option, repair or replace the unit, provided that the unit has not been subjected to accident, disaster, abuse or any unauthorized modifications including static discharge and power surge. This warranty is offered by the SELLER for its BUYER with direct transaction only. This warranty is void if the warranty seal on the metal housing is broken.

Unit that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for 90 days from the day of reshipment to the BUYER. If the unit is delivered by mail, customers agree to insure the unit or assume the risk of loss or damage in transit. Under no circumstances will a unit be accepted without a return authorization number.

The warranty is in lieu of all other warranties expressed or implied, including without limitations, any other implied warranty or fitness or merchantability for any particular purpose, all of which are expressly disclaimed.

Proof of sale may be required in order to claim warranty. Customers outside of the U.S. are responsible for shipping charges to and from the SELLER.

The content of this manual has been carefully checked and is believed to be accurate. However, The SELLER assumes no responsibility for any inaccuracies that may be contained in this manual. The SELLER will NOT be liable for direct, indirect, incidental, special, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. Also, the technical information contained herein regarding the AT-SDI230 features and specifications is subject to change without further notice.