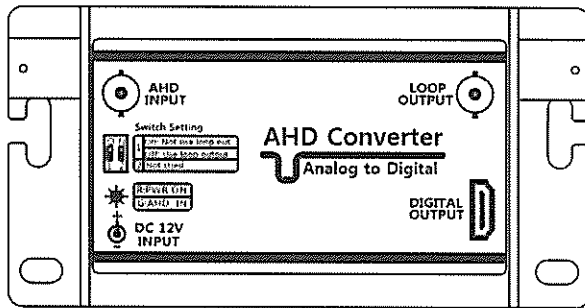


# NDAHD-AHD0101

*Analog (AHD) to Digital Converter*

## User's Manual

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xtendr<sup>®</sup>

## Precaution and Safety Guidelines

Please use this manual carefully prior to use for your safety and convenient use.

**Caution** (If you do not keep any of the below guidelines, you may get seriously injured or cause somebody's death)

- Please make sure to turn the power off prior to the installation.
- Do not install the product in the following places: extremely low or high temperature conditions; places exposed to rain, snow, or high humidity; places containing or exposed to oil and gas; places exposed to vibration and shock; places under direct sunlight or exposed to outdoor weather conditions; places exposed to radio waves (RF) or near to power lines. It may cause low performance or malfunction of the unit.
- When using this device adjacent to equipment which generates strong radio waves such as radio transceivers (walkie-talkies), repeaters, it may influence HD-SDI and/or EX-SDI signals, cause a malfunction of the device or some noise on the screen, or the screen may be broken, etc. Therefore, please do not use the influencing and relevant equipment where this device is installed and/or used.
- Do not bend the power cord excessively and/or damage it by pressing it with a heavy object.
- Do not disassemble or remodel this product on your own.
- Do not pull the power plug with excessive force or wet hands. When the power plug is loose, please do not plug in the cord.
- Please make the installation place to stay clean without dirt and dust, and wipe the device with a dry towel when you clean it. In this case, please do not use any organic solvent.
- Please keep at least 15 Cm for the back of this device from the wall and keep at least 5Cm for the sides of this device from the wall. Otherwise, the cables may be bent and/or cut due to the narrow space between the device and the wall, and may cause malfunction or fire.
- In case of the input voltage for the operation of this device, the voltage fluctuation must be within 10% of the rated voltage and the power outlet must be grounded. In addition, the power outlet for this device shall not be used for other electric heating appliances such as hairdryers, irons, refrigerators, etc.
- Please install this device on a flat and stable place and do not use it vertically or obliquely..
- Do not use the device when any smoke or smell is produced from the unit. It may be subject to fire or electric shock. If any smoke or smell is produced, please turn off the unit and remove the power cable immediately, and contact your distributor to check the device properly.
- Please make sure to connect the power plug to a grounded outlet.
- Please put the power plug where can be easily reached.
- Coaxial cables are used for this device.
- The transmission distance depends on cables and connectors quality and type.
- When thunder or lightning, please unplug the power cord for your safety.
- To extend or terminate the coaxial cables, please connect them in the following way.
  - BNC-M(Male) - BNC-JJ - BNC-M(Male): BNC Connector Connection Example (for HD-SDI)

- The joint part of the connectors must be insulated to prevent the metal part from exposure.



## 1. Introduction

### 1-1. Overview

SC-ADR01 is a 1CH signal converter, which receives an AHD signal and converts it to Digital signal. In addition, it is possible to record video separately as it has a loop output port for AHD signal.

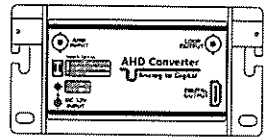

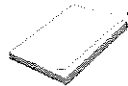
### 1-2. Features

- Possible to check AHD signal in Digital format.
- AHD loop output for recording with AHD DVR separated from monitoring via Digital output port.
- Camera menu control by UTC (Up The Coax communication) function.
- Compact and light aluminum case.

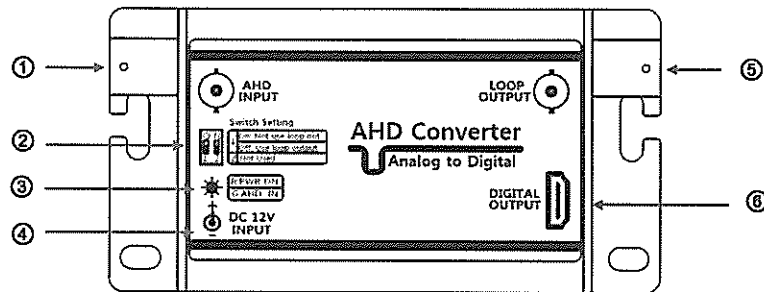
### 1-3. Applications

- Video recording and monitoring separately at the same time
- Places required centralized supervision  
(e.g. subway stations, airports, control centers, large factories, etc.)
- Control centers of large buildings or high ways.

## 2. Components

SC-ADR01	DC 12V Adaptor	User's Manual
		

### 3. Product Parts & Peripheral Device Connection



① **AHD Input:** AHD Signal input port (Connect to AHD camera)

② **Switch Setting:** To set loop output use (To set terminating resistance use)

SW	#1	#2
ON	No loop output (Digital output only)	Not Used
OFF	Loop output & Digital output	

#### ※ Terminating Resistance Setting

- Terminating resistance adjusts signal size when the device sends out the received video input signal through loop out port.  
In case of DVR, its terminating resistance is on. Therefore, when you connect the loop out port of this device to a DVR, please make sure to turn off the terminating resistance of the DVR.

③ **LED for Input Status:** Red LED is on for power input / Green LED is on for video input.

④ **DC 12V Input:** DC 12V power input port.

⑤ **LOOP Output:** AHD Loop output port. (Connected to AHD DVR)

※ Loop Output is to send out the received video signal in the same format as the input signal.

UTC (Up The Coax communication) function is available through this BNC port.

⑥ **Digital Output:** Digital signal output port.

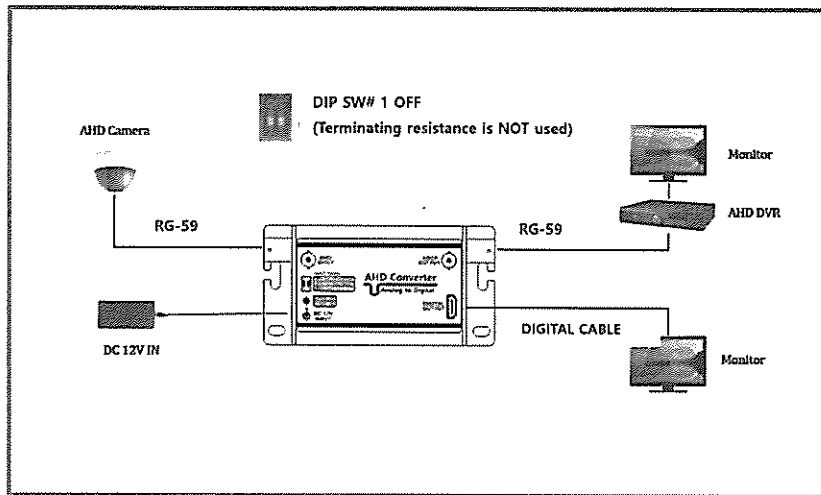
### 4. Specifications

MODEL		SC-ADR01
AHD Signal Input		1280x720(p25, p30), 1920x1080(p25, p30)
Loop Output		Same as Input Signal
Digital Signal Output		1280x720(p50, p60), 1920*1080(p50, p60)
Input Power / Power Consumption		DC 12V: 0.5A / DC 12V: 130mA
Connection Port	AHD Input	BNC-F 75Ω
	Loop Output	BNC-F 75Ω
	Digital Output	A Type
DIP SW	#1	Terminating Resistance Setting
	#2	Not Used
LED Indicator	RED	Power Input
	GREEN	AHD Signal Input
Temperature / Humidity		-10°C ~ +50°C / 0 ~ 80%
Case Body / Weight		Aluminum / 94g
Dimensions (mm)		97(W) X 50(H) X 27.5(D)mm

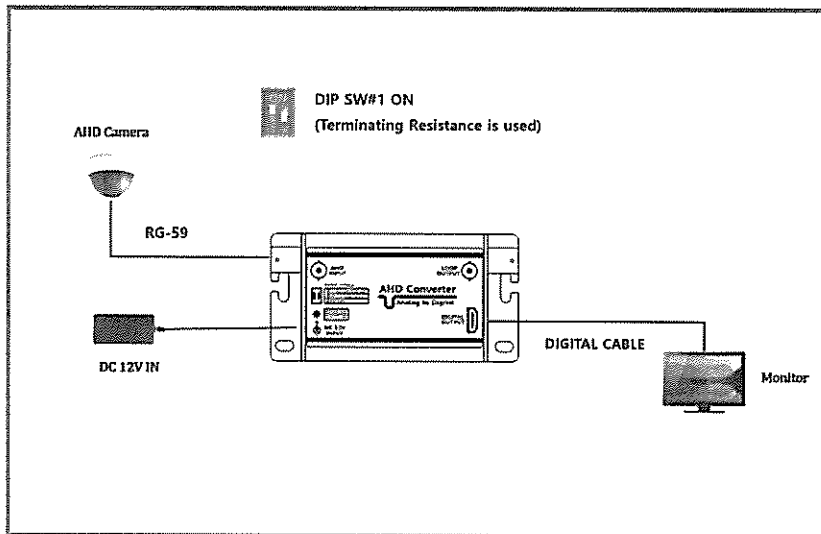
※ The distance between the loop output/digital output ports and DVR shall be within 3m.

## 5. Connection Diagrams

### 5-1. Video Recording & Real-time Monitoring



### 5-2. Real-time Monitoring



## 6. FAQ

Symptom	Checking Method
No power input	<ul style="list-style-type: none"> <li>Please check the connection status of the power adaptor.</li> <li>Please check if you connected DC12V adaptor.</li> </ul>
No video display	<ul style="list-style-type: none"> <li>Please check if the Green LED is on.</li> <li>Please check the resolution of the input signal.</li> <li>Please check if the BNC cable is connected in the right way.</li> <li>Please check the connection status of the BNC connectors.</li> <li>Please check if the camera and DVR are compatible mutually.</li> </ul>
The screen is NOT clear	<ul style="list-style-type: none"> <li>Please check if the cable distance is within the recommended transmission distance.</li> <li>Please check if the camera and DVR are compatible mutually.</li> <li>Please check the terminating resistance setting.</li> </ul>
The camera control is NOT available	<ul style="list-style-type: none"> <li>Please check if the camera and DVR are compatible mutually.</li> <li>Please check the terminating resistance setting.</li> <li>Please check the cable distance is within the recommended transmission distance.</li> </ul>