

# AVerGrabber CN312S

CN312S



CN312SW (Wide Temperature)

CN312SC (Wide Temperature with Conformal Coating)

# Quick Guide



## **Disclaimer**

All the images in this documentation are examples only. The images may vary depending on the product and software version. Information presented in this documentation has been carefully checked for reliability; however, no responsibility is assumed for inaccuracies. The information contained in this documentation is subject to change without notice.

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**Europe Office**

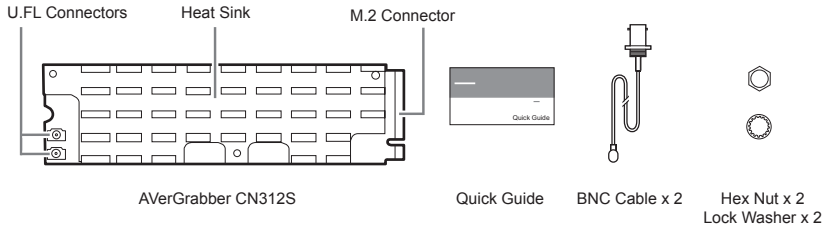
Address Hanauer Landstrasse 291 B, 60314 Frankfurt Hessen, Germany

## Important Safety Instructions

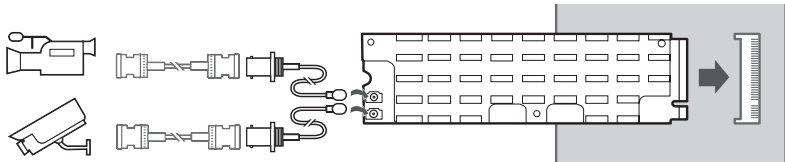
1. Read these instructions.
2. Keep these instructions.
3. Follow all instructions.
4. Heed all warnings.
5. Do not use the apparatus on uneven or unstable surfaces.
6. Do not use this apparatus in a wet environment or near water.
7. Unplug the apparatus before cleaning. Clean only with a dry cloth.
8. Use in a well ventilated environment. Do not block any ventilation openings.
9. Use the apparatus within ambient temperatures  $-4-158^{\circ}\text{F}$  /  $-20-70^{\circ}\text{C}$  (with 0.5 m/s airflow).
10. Use power sources within the specified voltage range.
11. Do not place heavy objects on the apparatus.
12. Do not install near heat sources such as radiators or stoves.
13. Do not defeat the safety purposes of the polarized or grounding-type plug.
14. Protect the power cord from being walked on or pinched, particularly where the cord connects with plugs or adapters.
15. Only use the attachments and accessories specified by the manufacturer.
16. Unplug this apparatus during lightning or when unused for prolonged periods of time.
17. Do not modify or disassemble the apparatus in any way.
18. Refer all servicing to AVerMedia Customer Service.
19. Do not dispose the apparatus as general household waste. Dispose in accordance with local environmental laws.

## Package Contents

These are what you'll find in the box:



## Installation



## Software Development Kit

The SDK for AVerGrabber CN312S can be downloaded here:  
[http://q.avermedia.com/CN312S\\_SDK](http://q.avermedia.com/CN312S_SDK)

Scan this QR  
code for more  
information.



## Specifications

Host Interface	Gen2 x 2	Max. Capturing Resolution	1920 x 1080 @ 60fps (2-channel)
Audio Format	SDI embedded audio	Encoding Mode	Software encoding
Audio Sampling Rate	48 KHz	Multi-Card Support	Yes
Connector Type	BNC for SDI	Supported OS	Windows 7 / 8.1 / 10 (32 / 64 bit) Linux (based on V4L2, support x86, x64)
Input Interface	2-channel 2K SDI	Operating Temp.	-20–70°C / -4–158°F (with 0.5 m/s airflow)
Video Format	Driver support output: 4:2:0 8-bit : NV12, I420, YV12 4:2:2 8-bit : YUY2 4:4:4 8-bit: IYU2, BGR24, BGR32	Storage Environment	Temperature: -40–85°C / -40–185°F Humidity: 0–95% relative humidity
	SDK support output: 4:2:0 8-bit : YV12 4:2:28-bit : YUY2 4:4:4 8-bit: BGR24	Form Factor	M.2 (M Key)
Color Depth	8-bit (support 10-bit video input)	Power	3.3 W
Channel No.	2 channels	Weight	37.5 g (1.32 oz)
Max. Input Res.	2048 x 1080 @ 60fps	Dimensions	W 22 x D 80 x H 26.3 mm

Note: Specifications are subject to change without prior notice. Please refer to our website for the latest details.



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## **FCC NOTICE Class B**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### **Federal Communications Commission Statement**

NOTE - This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by tuning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

## CAUTION ON MODIFICATIONS

To comply with the limits for the Class B digital device, pursuant to Part 15 of the FCC Rules, this device must be installed in computer equipment certified to comply with the Class B limits. All cables used to connect the computer and peripherals must be shielded and grounded. Operation with non-certified computers or non-shielded cables may result in interference to radio or television reception.

Changes and modifications not expressly approved by the manufacturer or registrant of the equipment can void your authority to operate the equipment under Federal Communications Commission rules.



## European Community Compliance Statement Class B

This product is herewith confirmed to comply with the requirements set out in the Council Directives on the approximation of the laws of the Member States relating to Electromagnetic Compatibility (EMC) Directive 2014/30/EU.



## Waste Electrical and Electronic Equipment

The mark of crossed-out wheeled bin indicates that this product must not be disposed of with your other household waste. Instead, you need to dispose of the waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. For more information about where to drop off your waste equipment for recycling, please contact your household waste disposal service or the shop where you purchased the product.



## **CAN ICES-3 (B)/NMB-3 (B)**

Canada - Canada Industry Canada (IC) Labelling Requirements

Every manufacturer or importer shall ensure import or before offering for sale, as appropriate, that each unit of the type that they offer for sale bears, in a location convenient for inspection, a permanent label or marking containing (in French and English), the following statement:

ICES-003 (Interference - Causing Equipment Standards)

"This class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada."



C a p t u r e   C a r d  
M o d e l   N o . :   C N 3 1 2 S  
P / N :   3 0 0 A C N 3 1 2 E B E  
M A D E   I N   T A I W A N

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