## Instruction Leaflet AVT 1394 Cameras V2.0.4 30 March 2010

## **CE** conformity

AVT standard cameras are manufactured in accordance with the CE standard and its underlying directions.

Board level models are delivered without housing. Because housing design is critical to the electromagnetic interference characteristics of a camera, no CE certification tests regarding electromagnetic interference have been performed for board level models. Users who design board level models into their systems should perform appropriate testing regarding electromagnetic interference after the product design is completed.

## **Contacting AVT**

Ordering and general information:

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phone (for Germany): +49 (0)36428 677-230 phone (for North America): +1 978-225-2030

#### Support:

support@alliedvisiontec.com
Outside Germany/North America:
Please check the link for your local dealer.
http://www.alliedvisiontec.com/emea/sales/sales-locations.html



### Hot-plug precautions 1394

Although FireWire devices can **theoretically** be hotplugged without powering down equipment, **we strongly recommend turning the computer power off**, **before connecting a digital camera** to it via a FireWire cable.

Static electricity or slight plug misalignment during insertion may short-circuit and damage components.

The physical ports may be damaged by excessive ESD (electrostatic discharge), when connected under powered conditions. It is good practice to ensure proper grounding of computer case and camera case to the same ground potential, before plugging the camera cable into the port of the computer. This ensures that no excessive difference of electrical potential exists between computer and camera.

It is **very** important **not** to exceed an inrush current of 18 mJoule in 3 ms. (This means that a device, when powered via 12 V bus power must **never** draw more than 1.5 A, even not in the first 3 ms.)

Higher inrush current may damage the physical interface chip of the camera and/or the phy chip in your PC.

your PC.
Whereas inrush current is not a problem for a single
1394b camera, daisy chaining multiple cameras or supplying bus power via (optional) HIROSE power out to
circuitry with unknown inrush currents needs careful
desian considerations to be on the safe side.



#### **Hardware Installation**

To install hardware, read **Hardware Installation Guide**. http://www.alliedvisiontec.com/emea/support/downloads/product-literature.html

#### **Software Installation**

AVT provides several SDKs (software development kits), which are all free of charge. http://www.alliedvisiontec.com/emea/products/

http://www.alliedvisiontec.com/emea/products/ software.html

## Safety notifications

There are no switches or parts inside the camera that require adjustment. The warranty becomes void upon opening the camera casing.

If the product is disassembled, reworked or repaired by unapproved service personnel, AVT or its suppliers cannot be held responsible for the subsequent performance or quality of the camera.

The camera does **not** generate dangerous voltages internally. However, because the IEEE 1394b standard permits cable power distribution at voltages higher than 24 V, various international safety standards apply.



# Screw-lock and power supply precautions

Also, all AVT 1394b camera and cables have **industrial screw-lock fasteners**, to insure a tight electrical connection that is resistant to vibration and gravity.

We strongly recommend using only 1394b adapter cards with screw-locks.

Make sure **not** to touch the shield of the camera cable connected to a computer and the ground terminal of the lines at the same time.

If you are charged: before touching the shield of the camera cable, make sure to discharge first (by touching the ground terminal of the lines).

Use only DC power supplies with insulated cases. These are identified by having **only two** power connectors.

If you feel uncomfortable with the previous advice or if you have no knowledge about the connectivity of an installation, we strongly recommend powering down all systems before connecting or disconnecting a camera.

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#### Cleaning precautions

Mount/remove lenses and filters in a dust-free environment, and do not use compressed air (which can force dust into cameras and lenses).

Use only **optical quality tissue**/cloth if you must clean a lens or filter.

Read Hardware Installation Guide, Chapter Cleaning instructions.



## **Warranty precaution**

AVT cameras: **Removed Cover Glass** sensor variant

AVT does not warranty against damage to the sensor after the adhesive foil is removed.

This camera model includes a sensor with removed cover glass. For protection during shipment, a special adhesive foil is used, which must be removed before using the camera.

We recommend removing the adhesive foil in a dustfree environment. Without the cover glass the sensor is mechanically very sensitive and must be protected against ESD, humidity and dust.



## **Warranty precaution**

AVT cameras: Taped Cover Glass sensor variant

AVT does not warranty against damage to the sensor after the tape is removed.

This camera model includes a sensor with taped cover glass. For protection during shipment, a special tape is used to retain the sensor glass. The tape and sensor glass must be removed before using the camera. We recommend removing the tape and the sensor glass in a dust-free environment. Without the cover glass the sensor is very sensitive and must be protected against

#### **Environmental conditions**

- Ambient temperature (during operation):
   + 5 °C ... + 45 °C
- Ambient temperature during storage:
   10 °C ... + 70 °C
- Relative humidity:
- 20 % ... 80 % non-condensing

Protection: IP 30

For camera families having different conditions see the *Technical Manuals*:

http://www.alliedvisiontec.com/emea/support/downloads/product-literature.html

## Copyright

ESD, humidity and dust.

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#### Allied Vision Technologies GmbH 03/2010

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