



**NANEYE<sup>®</sup>**  
**NANO HDMI**

Fully embedded all in one image processing unit that interfaces the NanEye<sup>®</sup> micro camera head signals and gives out a 1080p/60 format HDMI video signal which can be directly plugged to a display monitor.



# NANO HDMI

NanoHDMI is a fully embedded all in one image processing unit that interfaces the NanEye® micro camera head signals and provides an output of a 1080p/60 format HDMI video signal which can be directly plugged to a HDMI compatible monitor. No additional PC or image processing is required.

The NanoHDMI unit embeds advanced image processing algorithms to correct sensor fixed pattern noise, construct the color data from the raw binary stream and displays an output image of 750 x 750 pixels over an HDMI interface. The unit is supplied by a 12V wall charger and provides galvanic isolation to the camera head. It can interface to any standard Monitor with a HDMI input. On the sensor side the unit provides an extension cable of 1.4m and a small size interface print which holds the sensors calibration data and connects to the NanEye® cable connector. The NanEye® camera cable can be chosen in different lengths up to 3m beyond this extension board. The compact main body of the kit measures only 13cm x 8cm x 3cm and provides all necessary video processing.

For optimal FPN correction and color balancing the NanoHDMI is pre-calibrated by AWAIBA when the NanEye® camera head is purchased together with the NanoHDMI unit.

## Applications for the NanoHDMI

NanoHDMI is the ideal solution for all NanEye® sensor applications that require only to display a high quality image on a screen with a small and easy to use solution, but which have their own illumination solution and fix the NanEye camera module in their own application mechanics. Applications that do not have an illumination solution or that do not have mechanics to fix the NanEye® camera head should consider the NanEye\_Fiber\_Demo\_Optic\_Kit\_HDMI.

Applications requiring development of specific video processing hardware or requiring a stream of unprocessed image data to a PC platform, it is recommended to consider one of the other NanEye® development and evaluation boards based on NanoUSB2.2 or NanoUSB3, provided by AWAIBA.

## Kit Content:

- NanoHDMI Processing unit.
- Camera Extension cable with sensor interface board
- 12V wall charger
- HDMI monitor cable

## Purchase separately:

NanEye\_2D camera head on cable. (All RGB versions and cable length can be chosen with this kit)

## Ordering Information:

NanoHDMI  
sales@awaiba.com