



## eyeSTREAM

A large family of imaging benches

### Introduction

eyeSTREAM is a large family of imaging benches based on our universal software platform eyeMOTION, a computer tailored for the number of camera, the time of recording and the data rate to support, with digital cameras and lenses for your needs and in addition if necessary tripod, lighting systems (LASER, LED, Others), filters, filter wheel, intensifier, DAQ board, signal generator, stage for any kind of displacement, GPS, accelerometer, etc. the eyeSTREAM imaging benches provide the best all-in-one solutions for almost any digital imaging application.

**Multi camera compatibility:** inherited from the unique features of the eyeMOTION software, the eyeSTREAM family can control simultaneously many different type of cameras with or without embedded memory from many different manufacturers and therefore offer a wide range of single or multi cameras configurations focused either on High speed cameras or high resolution cameras or scientific cameras with high sensitivity, high bit depth, low noise, etc, or intensified cameras or industrial cameras or a mix of all types of cameras.



**Tailored workstation:** as for each imaging bench the constraints of recording are different in terms of camera number, data rate, communication interface, time recording, we design the Workstation choosing the motherboard, the processor, the memory size, the type, size and number of disk, the number of communication interface and PCIe slot dedicated to frame grabber and the power supply, to guarantee that it will fit your needs with no lost of images particularly if cameras have no embedded memory and send their data direct to PC.

## Details - versions

eyeSTREAM “multiFast”: dedicated to single or multi High-speed cameras configurations.

eyeSTREAM “multiHiRes”: dedicated to single or multi-High-resolution cameras configurations.

eyeSTREAM “multiLab”: dedicated to single or multi scientific cameras configurations.

eyeSTREAM “multiprod”: dedicated to single or multi-industrial cameras configurations.

eyeSTREAM “multimark”: dedicated to a mix of brand of all types of cameras.

## Achievable performances

- Up to 20 GBytes/s in direct recording to PC
- Direct recording to TBytes disk for long time recording of High data rate up to 12 GBytes/s
- Simultaneous recording of a large number of cameras
- Up to 24 cameras in USB 3.2 gen1 interface
- Up to 5 cameras in 4 x CXP2 interface

## Applications

- High-speed digital imaging
- High resolution / high dynamics digital imaging
- Multi camera acquisition and processing
- Trouble shooting
- Long time recording for high data stream cameras
- Metrology
- Object tracking

