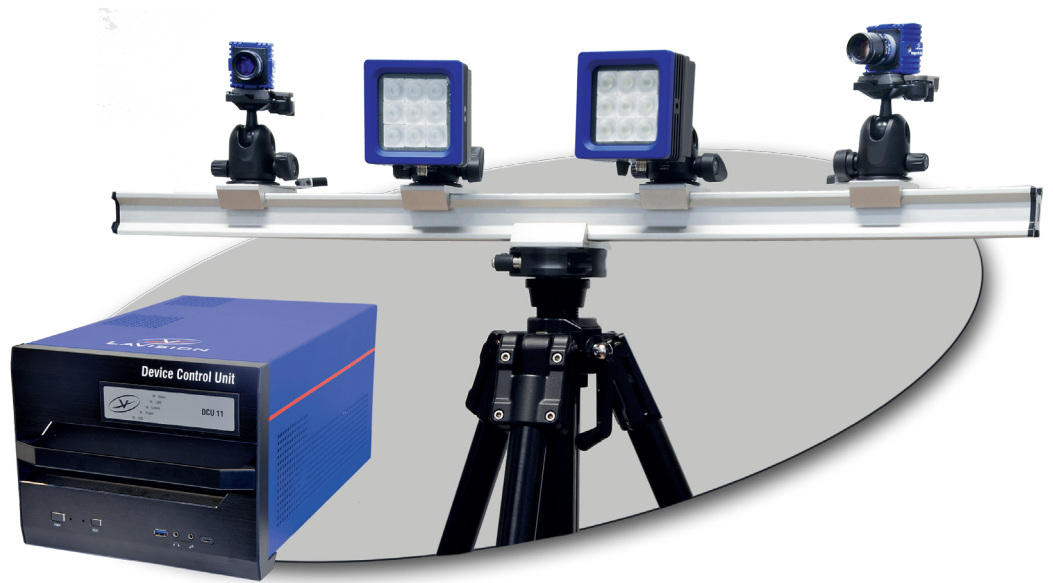


# StrainMaster Portable

New hardware makes the compact system for strain analysis even more efficient and flexible

The new **StrainMaster Portable** hardware for our full field strain and deformation measurement systems offers unparalleled flexibility and excellent stability in an extremely compact package. **StrainMaster** is LaVision's contactless instrument for materials testing based on the principle of **Digital Image Correlation (DIC)**. It allows the user to quickly and easily obtain full field data over the entire material surface. Building on customer feedback and our experience of DIC use in the field, together with our knowledge of scientific and industrial applications of optical measurement systems, we have developed the new **StrainMaster Portable** hardware.



## Improvements

### Improvements over existing DIC mounting concepts include:

- ▶ easily switch between standard test configurations and challenging locations
- ▶ lightweight frame system contained in one carry case
- ▶ suitable for low-speed and high-speed cameras
- ▶ modular design allowing modifications and upgrades



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**Advantages**

**The custom designed system addresses common problems encountered with DIC setups:**

- ▶ supports for camera cables to avoid cable damage, and cable weight causing small (but critical) camera movement deviations
- ▶ quick and easy to setup and reconfigure (vertical, long reach, large separation)
- ▶ frame is mountable on a tripod or direct onto a test machine (with the suitable adaptors)
- ▶ the controller is located on the rail, reducing cable lengths, increasing ease of movement and meaning minimal cabling between system location and PC
- ▶ the new controller is ultra-compact and includes all power supplies and synchronizer

**Standard 2D StrainMaster**

**Standard 2D StrainMaster mounting system includes:**

- ▶ heavy duty tripod for maximum stability
- ▶ 1m lightweight horizontal rail
- ▶ 1x camera gearhead on sliding mount
- ▶ 1x LED gearhead on sliding mount

**Upgrade to standard 3D StrainMaster**

**Standard 3D StrainMaster mounting system includes 2D system as above plus:**

- ▶ additional 1x camera gearhead on sliding mount
- ▶ additional 1x LED gearhead on sliding mount

**Optional mounting kit**

- ▶ additional rails for long reach applications
- ▶ longer rails for larger camera separation
- ▶ test machine mounting systems
- ▶ adaptor for vertical orientation



The new standard system will be suitable for most applications, but LaVision are equally happy to adapt this and design the most complex systems for challenging or unusual environments. We have extensive in-house design expertise and will work with you to address your requirements.

Please contact LaVision today to request a system demonstration and discover how **Digital Image Correlation** can be used for your application.

Data provided by LaVision are believed to be true. However, no responsibility is assumed for possible inaccuracies or omissions. All data are subject to change without notice.

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