



Lincam Imaging Station

Autolin Imaging Station

Linvision Software for crimp cross section analysis

Visiocrimp Software for crimp to crimp machine

Innovative solutions for crimp cross section analysis





Manual magnification selection



Manual Focus adjustment

LINCAM : All in one crimp cross section measurement

Lincam imaging station

Compared to other products available on the market, Lincam integrates all the components in a design housing making it a unique and more professional solution.

No loose cables, no bulk accessories, optional integrated electrolysis cleaning system & blowing device.

Lincam : an approved measurement solution

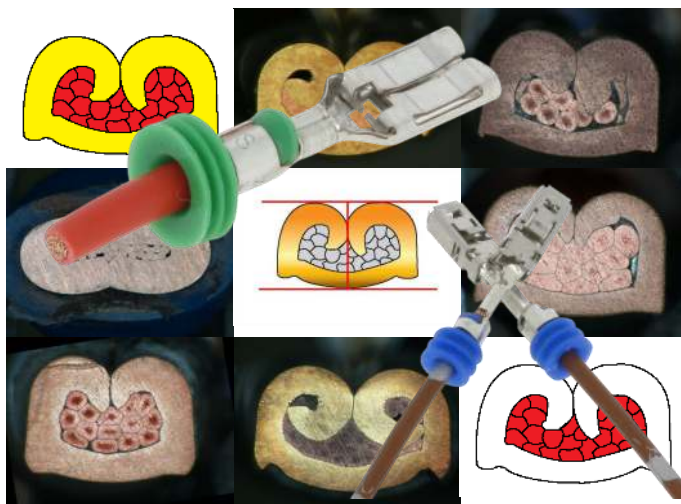
Made of well-known components (digital camera, macrozoom lens with 9 incremental zoom steps, led ringlight...), Lincam also benefits of our versatile sample holder and our one axis rail guide.

Lincam imaging station can optionally be equipped with our laser positioning.

Compatible software

Linvision

Professional solutions for crimping quality assurance



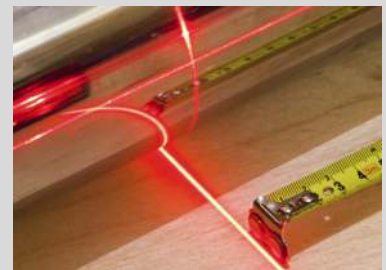
Versatile sample holder



Integrated electrolysis cleaning system*

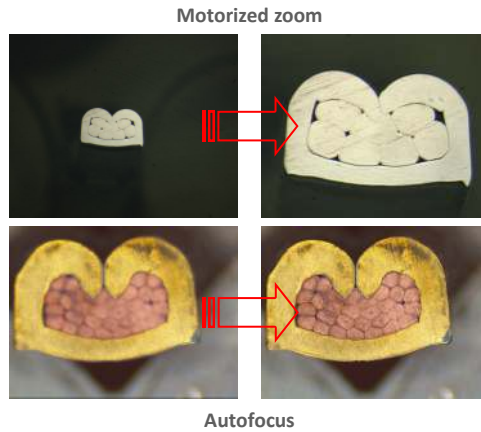


One axis positioning



Laser positioning*

* Optional



Autolin : Innovative imaging station for crimp cross section control

Autolin : That's smart...

No loose cables, no bulk accessories, optional integrated electrolysis cleaning system & blowing device.

Autolin has been designed for easy & fast operation, and much more...

Easy positioning for time-saving

Positioning the sample under the camera has never been so easy with our one axis rail guide.

Our versatile sample holder can be used either with the stripped cable, and/or the crimped cable and/or the crimp cross section.

Autolin imaging station can optionally be equipped with our laser positioning.

Accurate and repeatable measurements

The built in full HD camera & motorized optical zoom provide an easy to use system, eliminating manual magnification selection and manual focusing.

Optical magnification selection & autofocus are PC controlled.

Place the sample, call the appropriate crimp program and instantly get the sharpest image at the proper magnification.

Autolin offers a one pass automatic calibration procedure throughout the entire zoom range.

The calibration is loaded automatically with the set magnification, which guarantees maximum accuracy.

Compatible softwares

Linvision - Visiocrimp



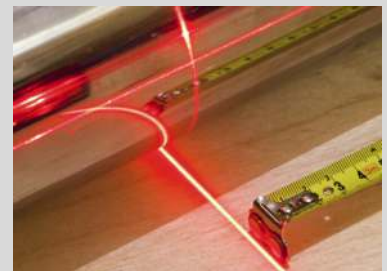
Versatile sample holder



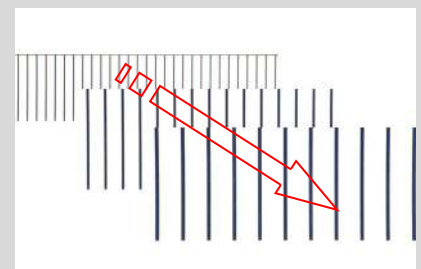
Integrated electrolysis cleaning system*



One axis positioning



Laser positioning*



Automatic calibration

* Optional

Linvision Software

For laboratory high level quality control

Professional software for crimp cross section measurement

Crimp cross section control is an important part of a production process to check whether the terminal meets your quality standards.

(e.g : VW 60330 – PSA 9634115099 – Renault 36-05-218).

LINVISION measurement software is to-the-point, providing what is needed and expected by quality control professionals in wiring industry. Set-up, measuring and traceability have never been so easy.

LINVISION measurement software is straight forward and intuitive.

Metrology system administration

Linvision software has been designed to be fully customizable to fit any quality standards.

A complete description of the terminals and its acceptance criteria are registered and protected by password.

All settings are automatically loaded and processed during measurement achieved by operators.

Measurement

Linvision offers a large range of measurements dedicated to crimp cross section measurements such as :

- Strands count
- Compression rate (Automatic outer outline of the terminal)
- Reduction rate (Automatic inner outline of the terminal)
- Void ratio
- Automatic terminal measurement : height & width
- Wings thickness & position measurements
- Semi automatic angle measurement
- Real terminal width measurement (VW standard)...

Measurements are instantly viewed as red or green quickly indicating crimps that are in or out tolerances.

During measurement, a handy viewer window is available with a sketch of the crimp, eliminating the need for external documentation.

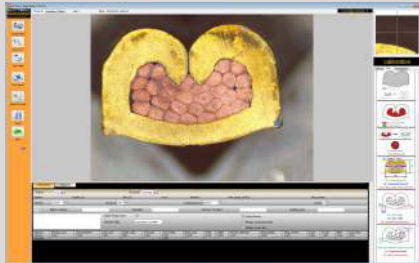
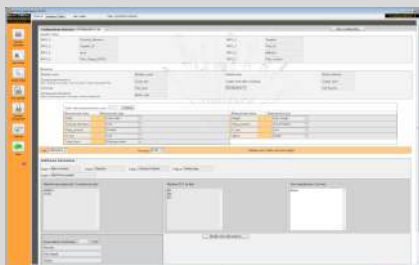
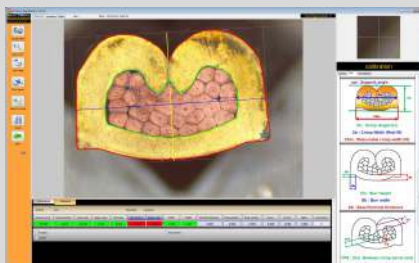


Image acquisition



Metrology system administration

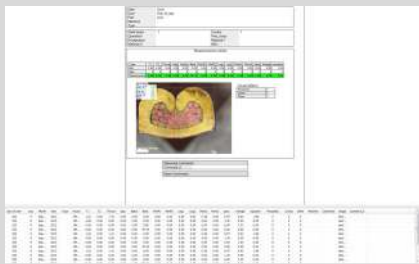


Crimp cross section measurement



HTML single crimp report

Automated Excel report



Dataview module - Traceability of the results

Report

Linvision provides exceptional reporting, filtering and data mining capabilities. All results can be filtered by date, item, batch number...

For single as well as multiple crimp measurements a report can be created.

Traceability

All measurements are saved into global excel files for statistical purpose.

Global results can be saved locally or saved on company network and shared with third party softwares.

With the optional dataview module, results can be reviewed on a single click. All the images are automatically stored as raw images and are available to redo measurement without getting the specimen.

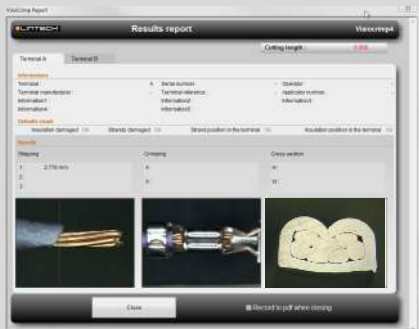
Compatible hardwares

Autolin - Lincam

Visiocrimp : Parameters selection



Stripping length measurement



Visiocrimp report

Visiocrimp Software

For production line quality control

User friendly software for crimp to crimp machines

Visiocrimp has been designed to quickly control the wire stripping and terminals during start-up phase on the production line.

Visiocrimp has been designed to work in coordination with crimp to crimp machine for ok starting.

Visiocrimp software takes benefit of the AUTOLIN Imaging station.

Manage control process

Visiocrimp helps you to boost your crimp quality assurance.

The application is fully configurable by the system administrator.

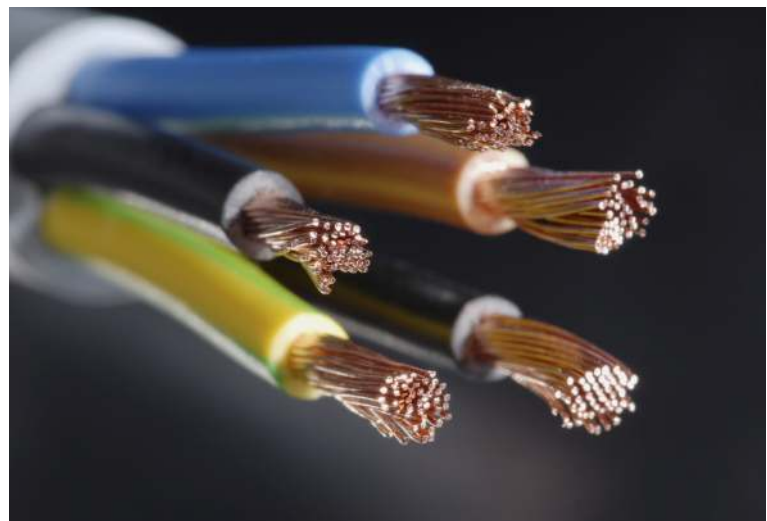
Step by step measurement approach, dedicated measurement tools (Stripping length, automatic terminal height & width measurement)

Measurements are instantly viewed as red or green quickly indicating crimps that are in or out tolerances.

Measurements reports are automatically stored, giving you a complete traceability.

Compatible hardware

Autolin

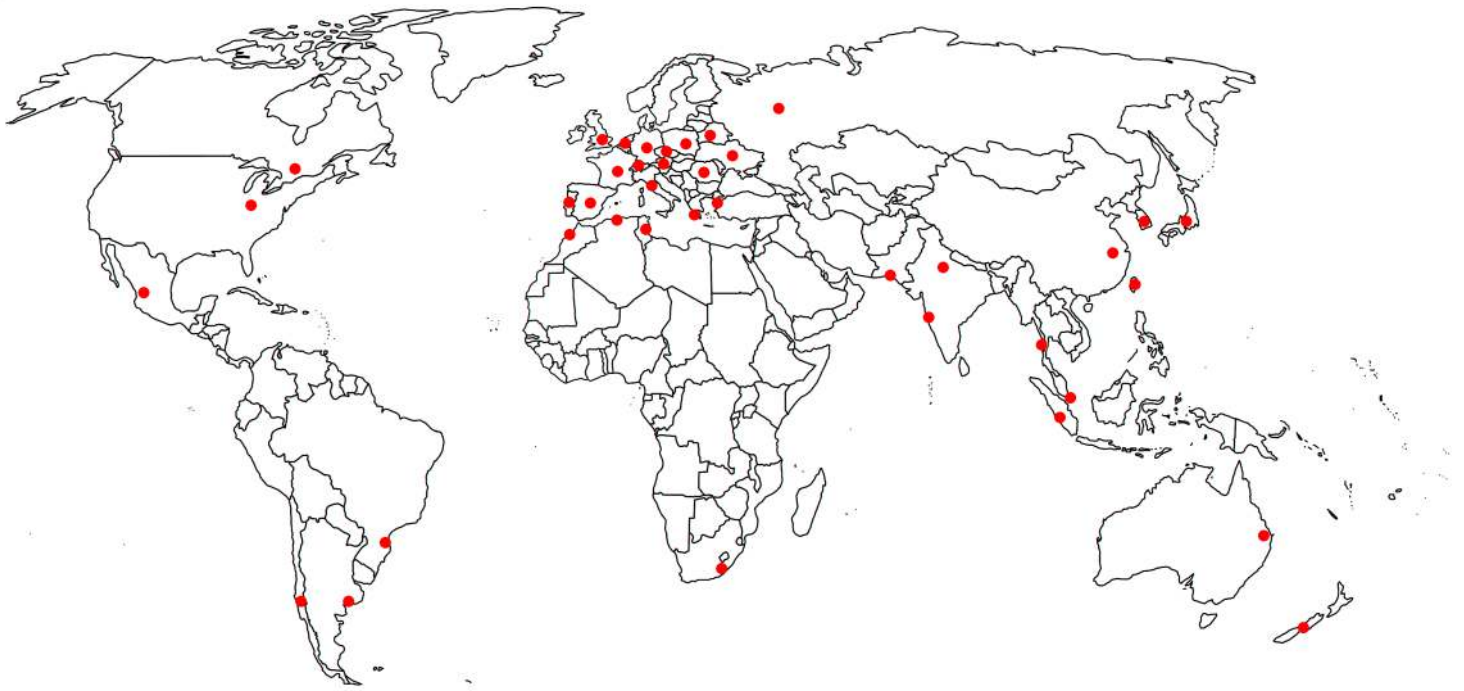


HARDWARES COMPARISON

| | AUTOLIN | LINCAM |
|---------------------------|--|--|
| Main applications | Crimp cross section analysis in quality control labs or production lines | Crimp cross section analysis in quality control labs |
| Main features | Automatic calibration Motorized zoom Autofocus | Manual calibration Manual zoom Manual focus |
| Magnification | 12 x to 80 x | 17 x to 110 x |
| Field of view | 17 mm to 2.5 mm (0.66" to 0.098") | 11.7 mm to 1.8 mm (0.46" to 0.07") |
| Accuracy | Resolution 1920*1080 Up to 2.5 µm | Resolution 1280*1024 Up to 1.4 µm |
| Output | USB 2.0 | USB 2.0 |
| System includes | Autolin system / Calibration slide / Power supply cable / USB2.0 cable / Versatile sample holder | Lincam system / Calibration slide / Power supply cable / USB2.0 cable / Versatile sample holder |
| Options | Electrolysis cleaning system Laser positioning Blowing device UKAS Certificate for calibration plate | Electrolysis cleaning system Laser positioning Blowing device UKAS Certificate for calibration plate |
| Dimensions & Power supply | H x W x D : 39 x 22 x 31 cm (15.3 x 8.7 x 12.2") 5 Kg / 11 lbs 1 x 110-220 V / 50-60Hz | H x W x D : 44 x 22 x 34 cm (17.3 x 8.7 x 13.4") 6.5 Kg / 14.3 lbs 1 x 110-220 V / 50-60Hz |
| PC recommendations | Windows XP SP 3/ Windows Vista Windows 7 32 & 64bits / Windows 8 32 & 64bits 3 Ghz Processor / 4 GB RAM / 1280*1024 graphic card minimum Excel 2007 or better Min. 1 x USB 2.0 ports | Windows XP SP 3/ Windows Vista Windows 7 32 & 64bits / Windows 8 32 & 64bits 3 Ghz Processor / 4 GB RAM / 1280*1024 graphic card minimum Excel 2007 or better Min. 1 x USB 2.0 ports |
| Compatibility | Linvision / Visiocrimp | Linvision |

SOFTWARES COMPARISON

| | LINVISION | VISIOCRIMP |
|------------------------|--|--|
| Main applications | Crimp cross section analysis in quality control laboratories environment | Production line quality control |
| Available measurements | Strand count / Strand area Compression rate (manual / automatic) Reduction rate (manual / automatic) Void area / Void ratio Terminal Width/Height (manual / automatic) Base thickness, Wing position, Wing symmetry, Burr Width/Height, Supporting angle, Supporting height, ...etc. Visual defects checking | Cutting length Stripping length Wire position in terminal Terminal Width/Height (manual / automatic) Void area visual checking Visual defects checking ...etc. |
| Options | Data View Module (in progress) Report Generator (in progress) | - |
| Compatibility | Autolin / Lincam | Autolin |



Our imaging solutions are sold through a worldwide network of specialized distributors.

Please contact us to locate the nearest distributor.

The biggest names in the industry rely on Clara Vision solutions



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