05 October 2020

BAUR Product information

New iPD and accessories case for liona

Official Sales Start of liona with new iPD

Dear BAUR colleagues and partners,

We would like to inform you about the official sales start of the **new iPD** and **accessories case** for our online PD spot testing device liona. The new iPD will replace the old one.

liona

accessories case

new iPD

The product is now available and we are accepting orders.

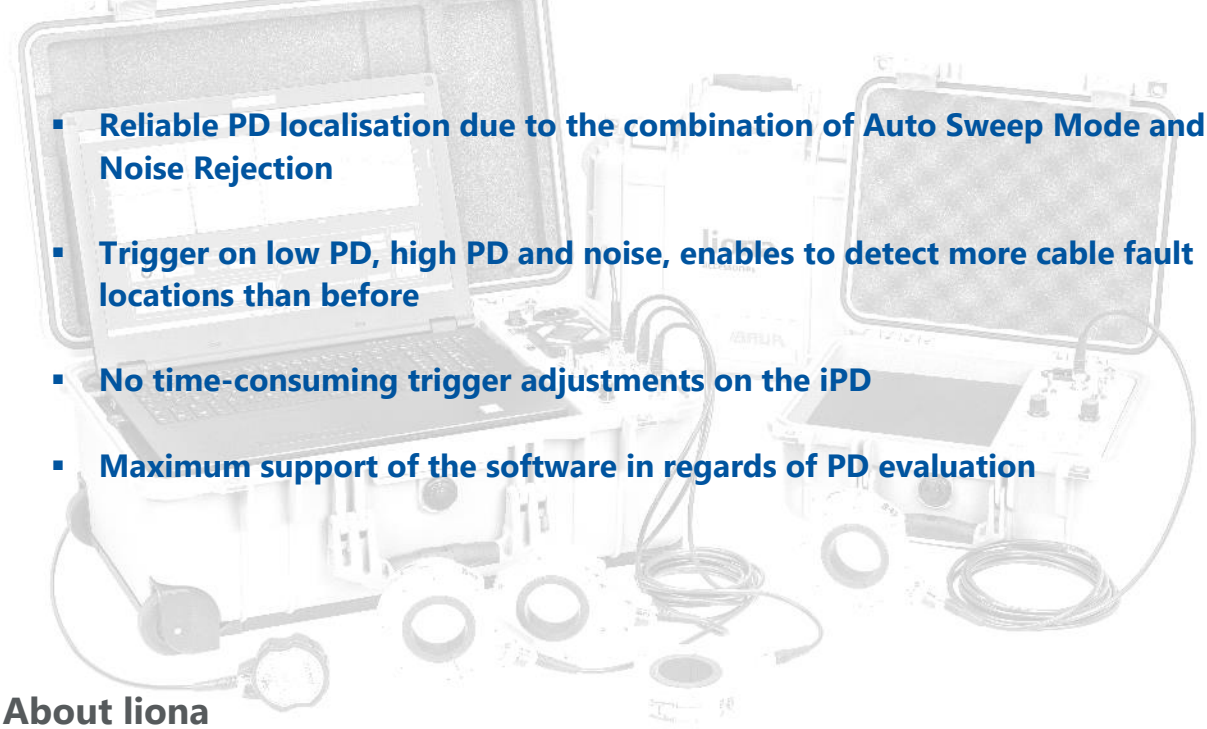
Take part in our webinar!

All information about the BAUR product liona and new iPD as well as practical application insights will be shown in our webinar:

- **Wednesday, 21st October 2020, 10 AM (CET)**
- **Wednesday, 28th October 2020, 2 PM (CET)**

For registration to the webinar, please click on this LINK.

USPs of the combination liona and new iPD



- **Reliable PD localisation due to the combination of Auto Sweep Mode and Noise Rejection**
- **Trigger on low PD, high PD and noise, enables to detect more cable fault locations than before**
- **No time-consuming trigger adjustments on the iPD**
- **Maximum support of the software in regards of PD evaluation**

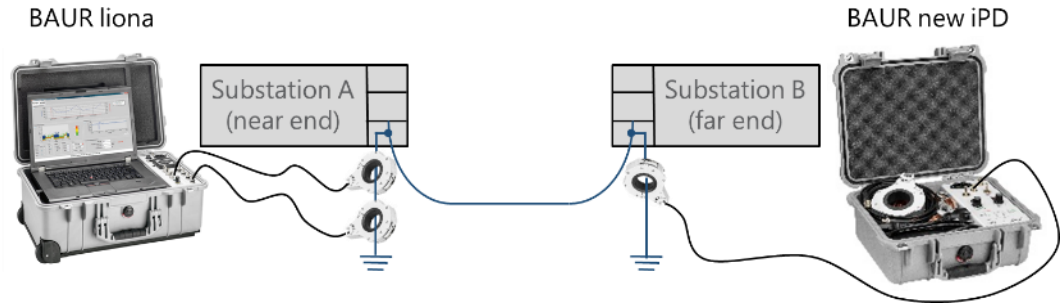
About liona

liona is an online PD spot testing and PD location unit for cables and switchgear with advanced signal processing for detection of partial discharges in high noise environments. liona allows users to investigate and locate partial discharge sources on live electrical equipment as a first step, helping to prevent potential faults in medium and high voltage assets. Using the advanced DeCIFer® algorithm to operate in high noise environments, the unit is ideal for reliable and effective PD detection.

Advantages and benefits of PD online testing with BAUR liona

- Reliable and easy PD spot testing under normal operation of the cable line without disconnection
- Automated PD filtering and detection with DeCIFer® technology (by IPEC Ltd.)
- Simple pre-assessment of the cable condition allows a more efficient planning of further diagnostic measurements (e.g. VLF-offline diagnosis)
- Precise online PD location with iPD transponder (optional)
- Precise online cable length measurement with iPD transponder (optional)

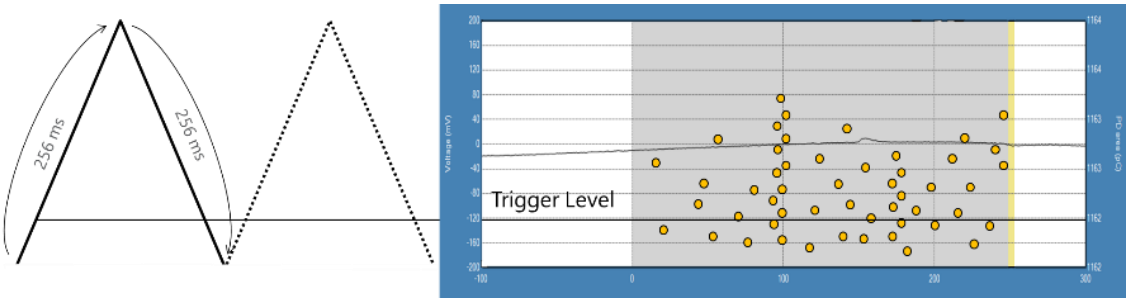
NEW: iPD transponder



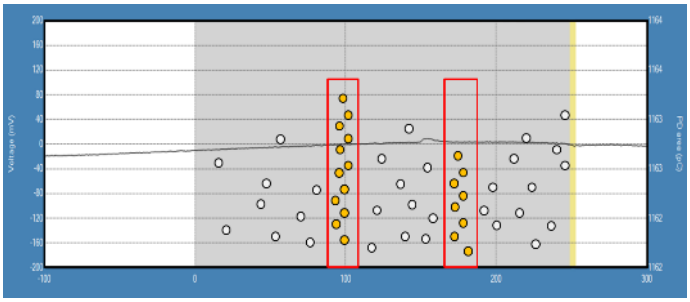
PD online location and cable length measurement
The iPD transponder builds a "reflection" at the end of the cable, which is necessary for online PD location (mapping). The iPD is connected via HFCT to the shield of the cable line.
If the iPD detects a PD signal, a pulse (up to 500 V) with a certain wave shape is injected within 10 µs or 100 µs delay (selectable) to the cable line. liona can detect this reflected impulse and can calculate the distance to the PD location. The 100 µs delay is recommended for a cable length < 800m and makes it easy to differentiate between the liona impulse and the iPD impulse.
The cable length can be measured with the same test setup. In this case liona injects an impulse, which gets "reflected" by the iPD.

NEW: Auto Sweep Mode and Noise Rejection

The new **Auto Sweep Mode** automatically changes the trigger level between minimum and maximum every 256 ms. This means that the new iPD automatically triggers on noise, low PD and high PD.



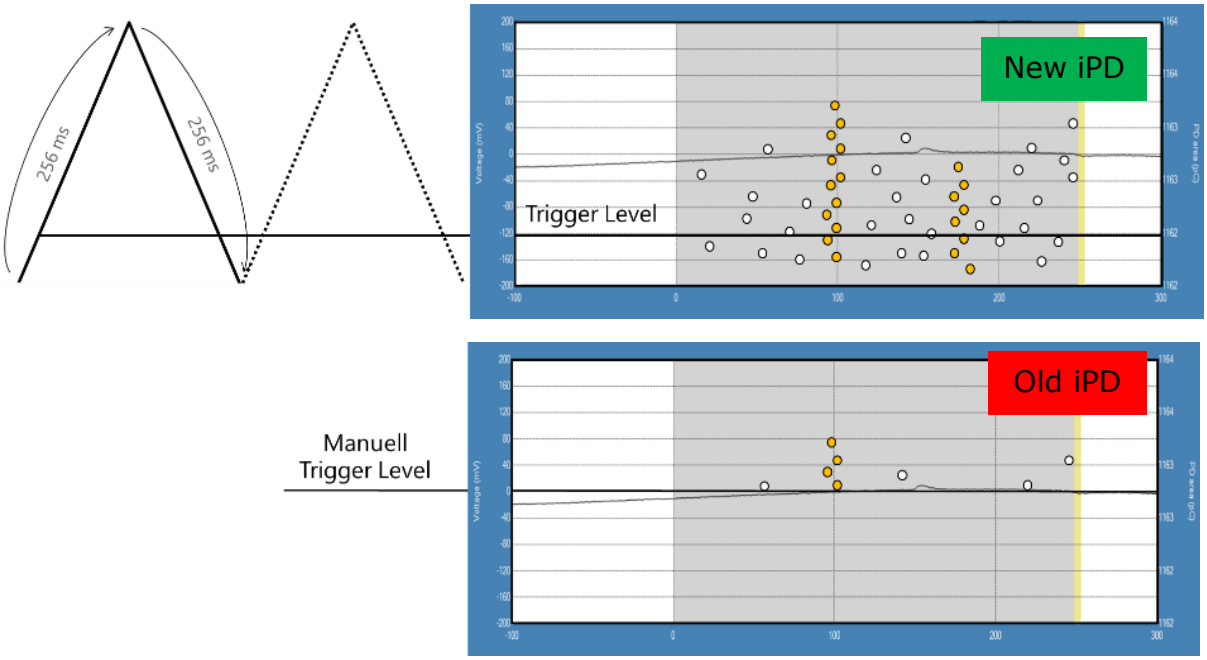
The **Noise Rejection** is a new feature of the mapping software. It uses the advanced DeCIFer® algorithm to identify PD automatically and reliably.



The combination of the new Auto Sweep Mode and the new Noise Rejection enables to identify and localise even smallest PD cable faults in high noise environments. Moreover, the automatic detection and localisation of PD highly supports the user in the evaluation process by making it faster and much easier.

Comparison of old iPD and new iPD

The mapping software of liona analyses, evaluates and displays existing PD impulses. Comparing the results of the software from old and new iPD, it is clearly shown that with the new iPD transponder, a lot more cable faults can be identified without any time-consuming trigger adjustments or detailed knowledge about the measurement process.



Improved Software

The main improvement of the software update is the possibility to activate Noise Rejection in the spot testing software. With this feature, the DeCIFer® algorithm is activated and the software analyses the incoming signals and detects PD automatically. In the new software versions there are also a lot of minor improvements and bug fixes implemented.

Spot Testing V 3.0

Cable Length V 3.0

Mapping V 3.0

Standard delivery & options

411+001 liona + accessories case – BAUR Online PD spot tester
311-026 iPD transponder

Detailed information about the scope of supply of liona, accessories case and iPD can be found in the data sheet (EN).
Data sheets in various languages can be found on myBAUR.

Market prices

The market price will be available with the updated version of the BAUR price list. For more information, please contact your BAUR sales team!

There is no possibility to upgrade the old iPD. To use the new features, the new iPD is required.

Three systems, consisting of liona + accessories case and the new iPD are available in our demo pool for customer visits, exhibitions, etc.

Technical documents and marketing material

Technical documents	Contents
Data sheet	Product information and technical data
User manual	Shows how the device must be used
Marketing material	**Contents**
Master presentation	Application, advantages of device, standard delivery, etc.
BAUR Website	Pictures, videos and technical data
Updated brochure	Overview of all available BAUR products for cable fault location
Images	Pictures of the product and application: available on myBAUR