

# Berghaus-News

Traffic Technology · Mobile Crash Barriers

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## New leaflet



The current leaflet for the new aluminium battery casings can now be downloaded from our homepage:

[berghaus-verkehrstechnik.de](http://berghaus-verkehrstechnik.de)

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Peter Berghaus GmbH is part of AVS Holding GmbH.

## Register now for the traffic light training 2012



Our traffic light training courses lay and consolidate the foundations for mobile traffic light technology, offering a practical insight into the technology and know-how for the application.

There's little time to lose: in early and late **February 2012** we are once again offering our traffic light training courses and there is great demand for the limited number of places.

We have already turned around 1,300 employees from authorities, road maintenance depots, construction companies and those responsible for traffic safety into "traffic light experts". The courses provide participants with necessary basic know-how about traffic light systems, making reference to current statutory regulations, e.g. the new RiLSA, the ZTV-SA and the TL-LSA and looking among others at practical examples for drawing up signal timetables and how to implement these phase plans in the traffic light controllers.

**Course I** (always Monday / Tuesday) is ideal for beginners or users of mobile traffic light systems for alternating one-way, T-junction or crossroads traffic situations. For those with more advanced knowledge, **course II** (always Wednesday / Thursday) works on the

basis of the know-how from course I and consists of a user seminar for crossroads system controllers. Learn the simple graphic procedure for drawing up signal timetables with our traffic light software and how to implement the resulting phase plans in your controllers. Comprehensive software solutions are available for convenient laptop programming of our portable traffic light system MPB 4400 and the crossroads controllers EPB 12 and EPB 48. We will be introducing you to the current "Ampel Tools" software during the courses.

You are invited to attend the courses in **Kürten**, North Rhine-Westphalia in **week 6** or in **Mellingen**, Thuringia in **week 9**.

Take this chance to have your service staff trained, as good qualifications are always worthwhile!

The registration flyer for the courses is now available on our website:

[berghaus-verkehrstechnik.de](http://berghaus-verkehrstechnik.de)

Courses unfortunately available only in German.

**Course I** lasts two days (Monday and Tuesday) and deals with the following topics:

#### Day 1:

- Brief explanation of ZTV-SA, TL-LSA and the RiLSA
- Calculation of signal phase plans for alternating one-way traffic systems
- Implementing the phase plans in traffic lights MPB 3200, 3400 and MPB 4400
- Fault-finding and troubleshooting.

#### Day 2:

- Laptop calculation of signal phase plans for T-junction and crossroads signal systems
- Implementing the phase plans in traffic light systems MPB 3400 and MPB 4400
- Instructions on using the SMS remote monitoring system

**Course II** lasts two days (Wednesday and Thursday) and deals with the following topics:

#### Day 1:

- Explanation of RiLSA, TL-LSA
- Writing signal timetables on laptops
- Implementing the signal timetable in controllers EPB 6000 S, EPB 2400 and EPB 12 together with EPB 48
- Instructions on using the SMS remote monitoring system

#### Day 2:

- Practical applications for controllers EPB 6000 S, EPB 2400 and EPB 12 together with EPB 48
- Analytical fault-finding and troubleshooting



From the simple alternating one-way traffic system through to complicated crossroads: we offer training in the practical use of traffic lights for road works

## LED temporary running light system: new lamps

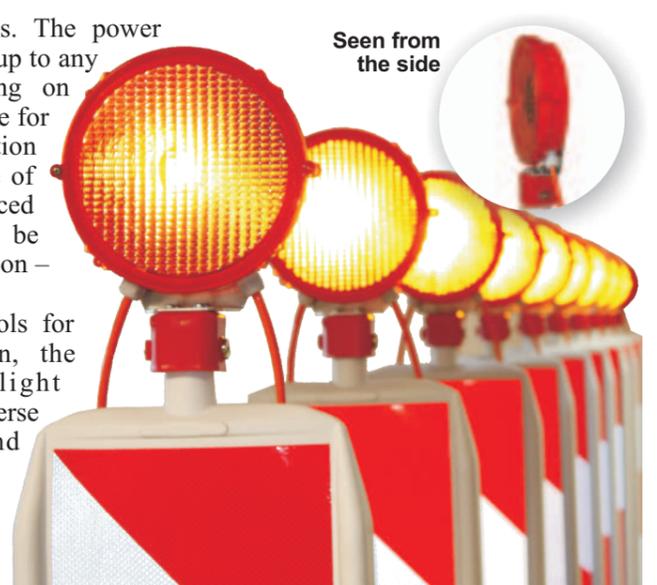
Mobile temporary running light systems on our motorways are responsible for traffic safety at severe lane switch zones in blind spots. Berghaus's new bright electronic components for the new LED temporary running light system are fitted in an extremely compact housing. Only 5 cm deep, the LED lamp itself is flatter than the beacon body on which it is fitted. Compared to conventional temporary traffic control light systems, there are many advantages in the electronic solution developed by Berghaus with just one single power LED in each lamp. All lamps are 100% identical and can therefore be combined at will. The innovative electronic system also manages without a separate controller, as the next lamp is simply connected to the previous one with its connection lead. In this way, it is possible to combine even more than 10

lamps if the need arises. The power supply can be connected up to any of the lamps, depending on where this is most suitable for the particular construction site situation. And if one of the lamps has to be replaced on site, any lamp can be quickly used in any position – just plug it in!

Like all Berghaus controls for 12V or 24V operation, the temporary running light system has electronic reverse polarity protection and undervoltage protection.

The new "AL 12 LED" is brand quality made in Germany!

Bright, compact and universal.



The new bright temporary running light system by Berghaus has just one single LED and fits in a housing only 5 cm wide.

## 170 years at AVS Overath and Berghaus



Nine reasons to celebrate! Group picture with the Managing Directors (MD) from left to right: Dieter Berghaus (MD AVS Holding GmbH), Axel Keller (20 years, MD AVS Overath GmbH), Norbert Schnippering (20 years), Alfred Wurth (35 years), Thorsten Merkel (10 years), Udo Meissner (10 years), Oliver Koch (10 years), Gerd Schwarzer (10 years), Bernd Breidenbach (10 years), Ralf Gressler (MD Peter Berghaus GmbH) – Walter Krupp (35 years) was unfortunately not able to attend.

In September, we celebrated nine long-standing employees who clocked up a total of 170 years tenure with the company. As has become the tradition, the occasion was duly celebrated together with the colleagues from our partner company AVS Overath GmbH at the country pub Zur Linde.

Master electrician and authorised signatory Alfred Wurth looks back on 35 years with Peter Berghaus GmbH.

Walter Krupp has also successfully served our Group for 35 years, working for the traffic safety service provider AVS Overath GmbH (formerly M+V GmbH). Master electrician Norbert Schnippering has been with Berghaus for 20 years and works in the control system division.

Axel Keller, Managing Director at AVS Overath GmbH, has now been with the Group for 20 years, while his colleague Bernd Breidenbach looks back on ten successful years as commercial site manager for traffic safety.

For ten years now, Sales Manager Udo

Meissner has been the number one person to contact at Berghaus for advice and sales of our traffic technology products.

Gerd Schwarzer, specialist for production and repair of our popular radio mobile traffic light MPB 4400 also looks back on 10 successful years at Berghaus. AVS site manager Thorsten Merkel and his colleague Oliver Koch have also been working successfully together for ten years now on the team at AVS Overath, the Traffic Safety Professionals.

The management expressed its gratitude and appreciation to all the long-standing employees, who were congratulated by all their colleagues. Following a brief speech after which the certificates were handed over, the relaxed part of the proceedings began with a copious hot buffet and plenty of draught beer.

Everyone enjoyed the informal, cheerful setting to share all the latest news with their colleagues.

## Deserving employees at AVS Lehrte



AVS Lehrte Managing Director Jens Selling thanked the long-standing employees Hans-Jürgen Siebert, Jan Chryst, Salah Richi and Neala Binder (from left to right)

In early September, AVS Lehrte also once again took the opportunity to honour long-standing employees, for their commitment and loyalty to the company. Managing director Jens Selling presented gifts to four members of staff who together look back on altogether an amazing 85 years of service to the company: Neala Binder has been doing the accounts and managing the resources at AVS with verve and pleasure for 15 years now.

Electricians Jan Chryst (20 years) and Salah Richi (15 years) offer extensive professional experience as electricians for mobile traffic light systems and can deal with even the most complicated signal controls.

Hans-Jürgen Siebert started working for the company 35 years ago as a traffic safety fitter; today he heads up the installation teams and is responsible for "his" AVS traffic safety professionals.

## New hinged mast for mobile traffic lights

Our mobile aluminium battery casings that take two 12V/170 Ah batteries are already supplied with a removable traffic light stand pipe as a standard feature. This allows for space-saving transport in the standard version.

In addition, we naturally also offer hinged stand pipes (hinged masts) which have now been redesigned. The new hinged mast permits even simpler transport of the traffic lights, particularly when the service vehicle only offers limited height. The upper part of the traffic light can be hinged down for transport to a height of just less than one metre.

The hinged mast also always includes the transport protective cover to protect the hinged signal head from the effects of the weather during transport. On reaching the construction site, the traffic light can then be erected at the required height with just a few moves and without any tools, offering optimum alignment to the traffic. The new hinged mast is available with a new traffic light system as an option ex works. It can also be retrofitted by the actual user with little effort to already existing Berghaus battery casings with removable traffic light stand pipe.



The new hinged mast can be simply hinged down for transport purposes to a height of just less than one metre (including protective cover). The traffic light can be erected ready for operation in a matter of seconds with just a few moves.



Thanks to our proven pipe-in-pipe system, the traffic light can be turned in all directions regardless of the base; fully variable adjustment in height is also possible. The detector can also be turned separately for optimum alignment to the traffic.

## INTERTRAFFIC 2012 in Amsterdam

Please make a note of this important event in your diaries:

From **27 to 30 March 2012**, the INTERTRAFFIC will be taking place at the RAI Exhibition and Convention Centre in Amsterdam. With more than 800 exhibitors from 45 countries and 25,000 trade visitors from 114 nations, the INTERTRAFFIC Amsterdam is without doubt the Number 1 trade fair for the transport and traffic industry.

For many years now, we have been attending this biennial international trade fair for the planning, administration and maintenance of traffic and transport infrastructure, taking this opportunity to show the interested trade public the latest product developments by Peter Berghaus GmbH. Needless to say, the AVS Traffic Safety Group will also be represented again in Amsterdam.

At our joint exhibition stand, located in hall 1 as last year, Berghaus Traffic Technology and our service provider AVS Traffic Safety will be providing information about new products in mobile traffic technology, including for example mobile traffic light systems and mobile crash barriers, together with the full range of services available for professional traffic safety.

You are cordially invited to visit us at our exhibition booth **01.410 in hall 1**. Please come in person to the booth to find out for yourself all there is to know about our diverse services, products and all the latest trade-fair innovations. We look forward to having many interesting talks with you at our booth.

The next issue of Berghaus-News will provide a preview of our trade-fair presentation.



## Congestion warning signals and alternating traffic signs

**MIS** GmbH  
mobile Informationssysteme

MIS GmbH – Mobile Information Systems is a joint venture company of Peter Berghaus GmbH and Gerding GmbH Verkehrstechnik based in Münster (North Rhine-Westphalia).

MIS offers manufacturers, hirers and service providers fully automatic mobile congestion warning systems with classic prism technology and mobile LED alternating traffic signs in various different sizes.



Setting up roadworks with the fully automatic mobile congestion warning system by MIS

### Mobile congestion warning systems

Special sensors (measuring cross-section) of the fully automatic congestion warning system constantly register traffic density, traffic flow, the number of cars and trucks and their speed.

These parameters are used to calculate the current congestion tendency; if necessary, the warning system (display cross-section) immediately indicates "Congestion Risk" or "Congestion".

This warns road users early on if there is congestion ahead, e.g. at road works, with constantly updated, fully automatic information.

The congestion warning systems are connected via the internet with MIS's own company server. In this way, all operating statuses, registered traffic data and the signal patterns of the signs are displayed in the web interface and monitored accordingly, including for example the current battery status.

Needless to say, the customer can also view this information and on request even intervene in the automatic workflow of the individual display cross-sections.

### Mobile LED alternating traffic signs

MIS GmbH also produces mobile LED alternating traffic signs for universal use with information, warnings or control of road users. The active light feature draws clear attention to special dangers such as the entrance and exit points at road works, early information to turning lanes or blocked exits, transition zones, diversions, "Trucks keep your distance" and much more besides. There are a great many possible uses.

The mobile LED alternating traffic signs can be used completely individually as stand-alone solutions, or also triggered, controlled and influenced via the internet as with the mobile congestion warning systems.

On request, every customer can be given individual access to the MIS server for checking and/or control of the LED alternating traffic signs that have been hired. In this way, the signal patterns can be changed simply from the office or when en route.

The mobile information systems by MIS GmbH are available for hire to interested authorities and companies on a nationwide scale:

[service@mis-gmbh.com](mailto:service@mis-gmbh.com)



LED alternating traffic signs by MIS GmbH at a hazard point in the roadworks on the A2 motorway at Bielefelder Berg.

## SMS monitoring system for traffic lights

Always up to date: our SMS module gives you the opportunity to conveniently query several major functions of our mobile traffic light systems by hand at any time en route; the information can also be relayed automatically by SMS, fax or e-mail.

The SMS monitoring system is suitable for most Berghaus traffic light systems.

This applies to our portable cross-roads controllers type EPB 12 and EPB 48, and also to our mobile traffic-light systems for controlling alternating one-way traffic, T-junction and cross-roads traffic type MPB 3200, MPB 3400 and MPB 4400.

The SMS system naturally also offers a major advantage for servicing MPB traffic light systems running on 12V batteries as it also constantly monitors the batteries of the individual signal heads. When the battery voltage starts to fall in any signal head in the traffic light system, an early battery warning is sent to the maintenance technician, for example.

Together, up to four subscribers can be informed by SMS, fax or e-mail for every particular event.

The software of the SMS module can be programmed to allocate the individual reporting events individually to each subscriber.

When sending an SMS message to the service technician, the SMS monitoring module can also store the respective office fax number or e-mail address to pass on information about the arrangements for the pending battery change in the next few days.

Automatic monitoring of all batteries in the complete traffic light system and timely information to the service staff prevents flat batteries from causing traffic light failure. This also helps to avoid unexpected and therefore certainly also expensive emergency servicing to attend to flat batteries at night or at the weekend.



Live information from the road works: the SMS monitoring system sends an SMS, fax or e-mail to the service technician in good time before the batteries have to be changed and when any other faults occur

Together with the battery warning, the SMS message can also include a possible red lamp fault or a status fault (e.g. transmission error in radio or cable mode) to the required group of recipients.

Having fault messages sent directly by SMS, fax or e-mail to the emergency service phone means the fault messages arrive before the problem is reported to you by the police.



Important information: Fault message on a smart phone

At the same time, you have recorded verification about how long the traffic light system was out of use and when it started to work properly again: the end of the fault is also reported by SMS, fax or e-mail to the previously named recipient.

SMS remote monitoring can certainly also be retrofitted to your already existing mobile Berghaus

traffic light systems type MPB or EPB. Just ask us for an offer for this really useful maintenance support feature.

## AVS and Berghaus sponsor girls' teams



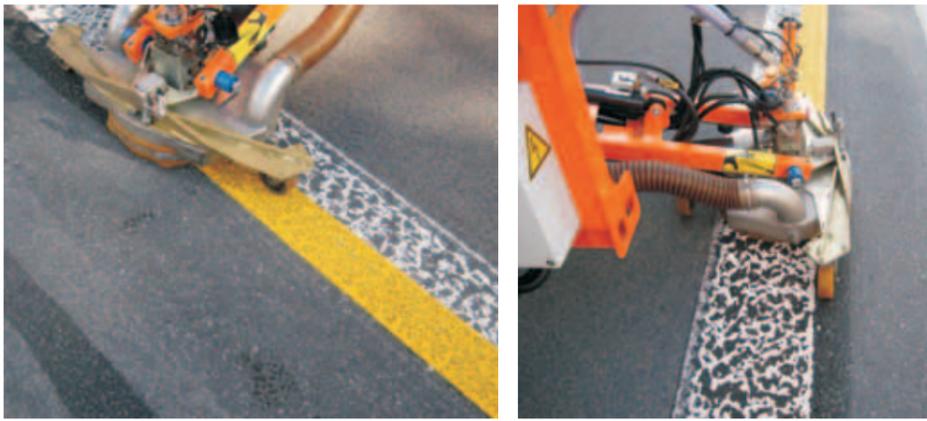
Together with the ladies', men's and youth football teams that have received a new Berghaus or AVS outfit in recent years, we have now also provided two girls' teams with new kit.

In Berlin, the girls in the C-hockey team of SC Charlottenburg (on the left) are pleased with their new AVS kit. The kit must have made a positive contribution to their team spirit, as they won the B-cup 2011. Congratulations!

The girls in the basketball team of TV Herkenrath (North Rhine-Westphalia) have set their targets high. They didn't have long to wait: at the largest children's basketball tournament with 135 teams in Göttingen, "our" girls chalked up a proud 7th place in their age group.



## Gentle demarking with the AVS PeelJet



These pictures from the A44 motorway clearly show the strengths of the new AVS PeelJet: yellow roadworks markings are removed from white agglomerate marking – without leaving any residues and, above all, without damaging the white marking!

The last Berghaus News included a report on the new product division of AVS Traffic Safety for demarking road marking materials. The AVS PeelJet which was commissioned just a few weeks ago, has already proven its worth at many roadworks with its extremely thorough but gentle demarking of many different marking materials on a wide range of road surfaces without causing any damage to the roadway. The clean results have been quickly convincing. The references include among others:

**A2 Bielefeld:** high-solid paint removed from chipping-mastic asphalt

**A4 Bad Hersfeld-Kirchheim:** thick film removed from melted asphalt and exposed aggregate concrete cleaned

**A5 Bühl:** cold spray plastic, high-solid paint and agglomerate marking removed from exposed aggregate concrete

**A23 Itzehoe:** cold spray plastic removed from concrete

**A44 Warburg / Diemelstedt:** paint removed from agglomerate marking

**A45 Ehringshausen:** cold spray plastic removed from melted asphalt channel and thin layers in cold paving

... as well as removing film, cold spray plastic and high-solid markings on asphalt concrete and chipping-mastic asphalt on various major and minor roads, such as the **B7, B85, B87, K42, K1052**, for example.

However, the AVS PeelJet produced a most convincing performance on the A44 motorway at Warburg/Diemelstedt, where it really revealed its strengths. Yellow paint marking had been applied to permanent white agglomerate marking in the roadworks zone. The task was to remove the yellow marking without damaging the permanent marking underneath (see pictures above). This is scarcely possible with conventional methods, but no problem for the AVS PeelJet. The yellow paint marking was "peeled" from the white agglomerate marking practically in passing. The yellow paint disappeared completely, leaving no residues and, naturally, without damaging the white marking.

Why don't you opt for the AVS PeelJet for thorough demarking that is kind to the road surface at the same time?!

## AVS safeguards roadworks to upgrade the A9

AVS Mellingen GmbH has been commissioned by the consortium "ARGE EW A9 Thüringen" consisting of EUROVIA and Wayss & Freytag and given responsibility for traffic safety in the course of the partial upgrade of the A9 motorway from Berlin to Munich.

Over the next three years, altogether a 46.5 km stretch of the A9 motorway between Gera and Hof is to be refurbished, upgraded and widened.

The contract for the upgrade was recently awarded on the basis of a PPP partnership by the German government represented by the Free State of Thuringia and DEGES Deutsche Einheit Fernstraßen Planungs- und Bau GmbH (the company responsible for planning and building highways in the course of German unity). The scope includes funding, planning, upgrading, refurbishment and subsequent operations and maintenance of the motorway section over a period of 20 years.

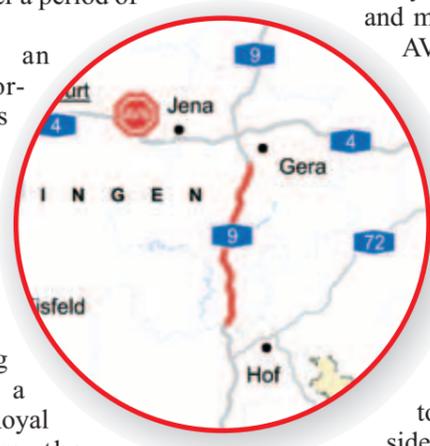
The contractor is an international consortium of companies consisting of Vinci and BAM.

(Note: the French Vinci Group includes EUROVIA GmbH in Germany; the German company Wayss & Freytag Ingenieurbau AG is a subsidiary of the Royal BAM Group from the Netherlands).

Responsibility for traffic safety has been assigned to AVS for work beginning in the 4th quarter 2011 on the six-lane upgrade of a partial length of the project covering 19 kilometres from the Lederhose motorway junction up to the state border between Thuringia and Bavaria.



The order includes complete traffic safety on the motorway and the related road network for the construction period over the next three years. A special mention should be given to the fact that all necessary services including for example signage, marking, erection, modification and dismantling of mobile crash barrier systems, maintenance and service as well as demarking will be carried out exclusively by the skilled workforce and material resources of the AVS Group.



A large number of jobs have to be performed in upgrading the A9. Among others, 24 new bridges have to be erected together with five new rain detection basins, a motorway junction and a new lay-by with toilet facilities on both sides of the motorway. The demanding PPP order also

includes marking, signage, guidance systems and game fences together with subsequent recultivation work.

All the construction work is to be carried out while keeping the traffic flowing and should be completed by the end of November 2014.



In recent weeks, the new AVS PeelJet has successfully completed its first assignments on the following roads and motorways: ...



Your experts for **safe** roadworks:

**Berghaus Traffic Technology and 11 x AVS-Traffic Safety**



Safety by Berghaus



Your Traffic Safety Professionals!



Peter Berghaus GmbH as manufacturer for innovative traffic technology and our service provider, AVS Traffic Safety with its 11 sites nationwide are at your service in word and deed with more than 250 well qualified staff.



# Peter Berghaus GmbH

## Traffic Technology • Mobile Crash Barriers

Herrenhoehe 6 • D-51515 Kuerten • phone +49 22 07 96 77 0 • fax +49 22 07 96 77 80  
[www.berghaus-verkehrstechnik.de](http://www.berghaus-verkehrstechnik.de) • [mail@berghaus-verkehrstechnik.de](mailto:mail@berghaus-verkehrstechnik.de)