





LICHTVISION

ENGINEERING

Company since 1998 in Berlin Germany

Standardisation IEC TC34 WG11 Convenor - IEC62386

Developer for DALI ... also IoT (dual BT-WiFi)

Manufacturer ProbitGears, IoT Sensor "Chekov", ProbitLab2













ProbitLab2

ProbitLab2 tests the DALI interface

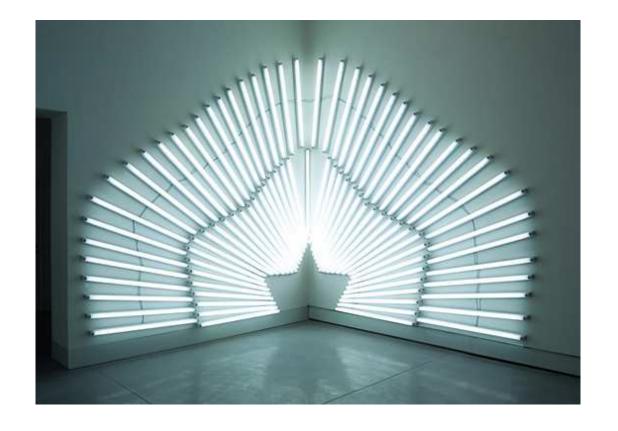
Control Gears Control Devices Bus Power Supplies

How to test the Application?

Installation Setup Lots of Luminaires

...very limited

Lichtvision's smart solution...



ProbitGears

"We invented it, because we needed it."

The triggering project: "DALI Gateway"

Verify the correct handling of up to 64 luminaires.

How to create a short address conflict.

Emergency devices with 24h charging cycle.

We do believe, many other developer share the very same needs.



How it works

With just two connections the whole test setup is done.

DUT

Anything meant to control luminaires

Maybe a DALI application controller.

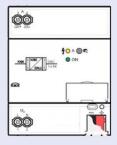
ProbitGears

Real time platform

DALI terminals ← → USB connector

Personal Computer

Visualize all control gears' variables Change anything at run time







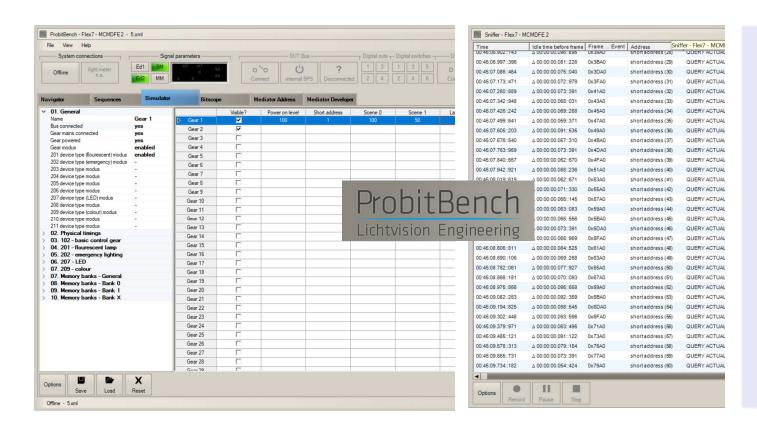






ProbitBench

Everything comes together in the ProbitBench.



Personal Computer

Works with **ProbitBench**, because some functionality like the Sniffer is shared with other Probit devices.



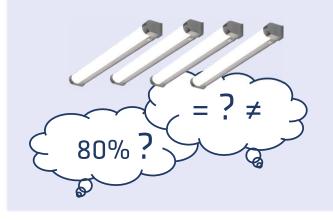


See the invisible

For FadeTime, Level, Scene, ...

With a bunch of real luminaires...

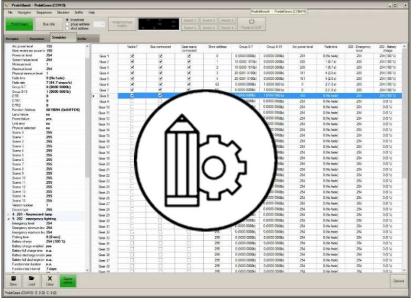
- it is impossible to identify a certain light level.
- Practically all variables are invisible, like scene levels, fade times, groups and so on.





Runtime control

Change the situation like a real application do





Introduce individual characteristics of certain manufacturer's devices or even make them act erratic.

Out of the blue you can:

- Remove a short address
- > Generate an address conflict
- > Set bit timings and answer delays
- Select supported device types
- ➤ Change any variable of the gear



Emergency Batteries

Shorten Test Times to a level, making such tests possible for the first time ever.

Multiple repetitions of real battery duration test are not feasible.

No chance to test this at all.

Adapt the simulation itself!

Select the discharge and recharge time.

Set your desired rated duration.

Repeat your testing as often as needed within minutes.

This is the first time ever such test becomes possible.





Hands On





Pricing

Starting at € 3900 with ProbitBench included - 60€/gear only. And choose from many great add-ons.







65 Gears € 3900



Probit Update Webinar

Hardware + Control Gear part 102

Emergency (DT1) + 2900 €

(DT6) LED + 2600 €

(DT8) Colour + 2900 €



Add-ons can be purchased later as required. Installation via code file.

Probit for the Lab

Tools for the Lab

ProbitLab2

Interface

ProbitGears

Application

How to test the Installation?

leave the lab and go to the site engineers do not leave the lab

installer has to do it

Lichtvision's smart solution...



ProbitSite

"Just as easy as a voltmeter."





Display

- ✓ Large 3.5" Display
- ✓ High Luminance
- ✓ Simple Icons

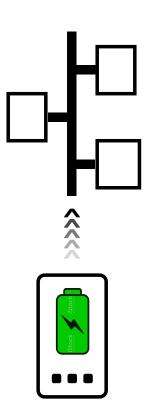


- The project is often worked under time pressure and on the ladder at a great height I certainly don't need a weak little display.
- The ProbitSite's large and bright display and simple graphical icons allow me to see everything at a glance.



Bus Power Supply

- ✓ Integrated
- ✓ Min. 200mA
- ✓ Smart Connect



- Nothing works on the DALI bus without a bus power supply! If I want to check my system, I don't want to have to worry about how the bus is powered.
- The ProbitSite does this for me. Its integrated bus power supply switches on automatically when required and is switched off when there is already a supply on the bus.



Smart Scan

✓ The ProbitSite can track and read any device without changing anything.

















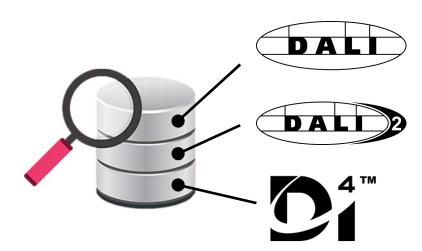


- ➤ Control Gears + 2xx
- ➤ Input Devices + 3xx
- > Application Controller
- ➤ Bus Power Supplies + 250



Certification Check

✓ Checks all components and marks devices without an entry in the DiiA database.

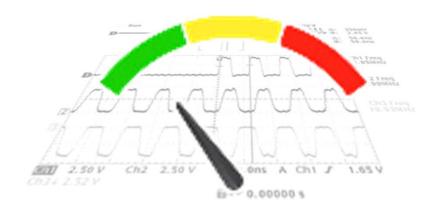


- ➤ I can't always decide which components go to the construction site. I also don't know which electronic ballast was installed in a lamp.
- The "Certification Check" finds non-certified products. These are sometimes not fully tested and can therefore still contain errors that often only become apparent when the system is in operation.
- Scenes 1-4 work perfectly, but surprisingly scene 5 doesn't...



Signal Check

✓ ProbitSite makes visible what otherwise only an expert with an oscilloscope can see: poor signals.

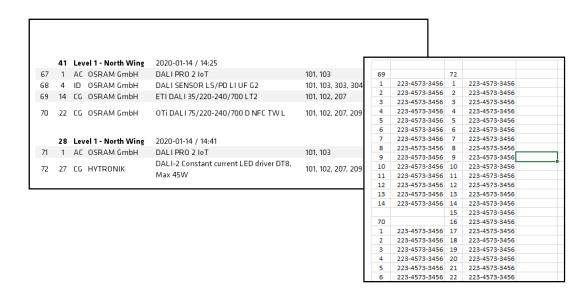


- > The standard defines exactly what the signals on the bus must look like so that everyone understands everyone else.
- > If a device does not comply with these specifications, it is possible that others will no longer understand it with certainty. Such errors might show up later sporadically during operation.
- ➤ The ProbitSite checks the signals according to the standard and gives advance warning if something is wrong.



Proof

✓ Readings are intelligently merged into a manufacturer-independent protocol.



- I always connect the ProbitSite after installing a few devices. This way I can isolate a faulty device much faster.
- The ProbitSite notices that I'm still working on the same bus line and updates its log.
- In the end, I get a precise picture of my installation, no matter where and how often I have used the ProbitSite.



What is all this good for?

Eliminate trivial errors

- A broken control gear or a loose wire...
- > If there's an error, I'll **find it right** away

✓ I do not have to return to track down errors and fix them later.

Unmask false errors

- Others later might claim I made a mistake...
- My log shows that everything is connected correctly, and which components were installed.

✓ In the event of a dispute, I have a secure position.

Prevent potential errors

- Some problems only appear later in operation...
- The Signal Check detects hidden weaknesses.
- The Certification Check shows non-**certified** devices.
- **☑** My customer satisfaction increases.



Pricing

Purchase the hardware and all the software is included.

















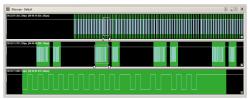


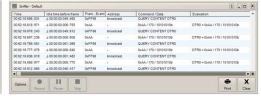




"Just as easy as a voltmeter." € 649









ProbitLab2

test the interface

ProbitGears

test the application make testing possible

ProbitSite

leave the lab and go to the site installer can test on site

Lichtvision's smart solutions





