



How to Get Started with VirtualLab Fusion

From Your Scenario to Your Virtual Lab

Overview Paper | Version 1.1

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Your Scenario, Your Assets, Your Task

You have your scenario. You know what is in your system—sources, components, detectors. Your central question is: how can I simulate this system with all its assets? That is where working with VirtualLab Fusion starts.

1. Start with Your Asset List

Begin with a practical description of your optical scenario. What sources, components, objects in the light path, detectors, measurement tasks, target quantities, and critical parameters are involved?

This asset list is the foundation. It connects your real setup, device, product, or measurement task to the virtual setup in VirtualLab Fusion.

2. Check the Twin Hub

With your asset list in hand, check the [Optical Digital Twin Hub](#) to see which Optical Digital Twins already exist for your assets. [Use Cases](#) and the [Document Center](#) can also inspire you and show what is possible.

We are always available to support you in solving your modeling and design tasks. You can explore on your own—but you are welcome to ask us. In fact, we encourage it.

3. Get Expert Support – We Are Here to Help

We are not just a software provider—we are your technical partner.

When you contact us, you reach colleagues who discuss optics and physics with you at eye level. We take the time to understand your scenario, add our expertise, and together we map it to the right twins and tools.

After a technical discussion and the clarification of the technical path to a solution, our sales experts take over and handle the business side.

Contact us at support@lighttrans.com. People who have contacted us know: we provide real technical expertise—not just sales talk.

Save time. Get clarity. Let us find the best technical path forward for your project.

4. If a Twin Is Missing

Sometimes a required twin or tool does not yet exist. That is not a dead end.

Because of our twin concept, we can embrace the full diversity of ideas and simulation technologies—from modern literature, from our own developments, or from your ideas—to tailor a simulation model that fits the asset perfectly and works seamlessly with all other optical twins.

The VirtualLab Fusion concept makes this possible. The platform is designed to grow—with new expertise, new models, and new capabilities, from us or from you.

You have several options to add new twin technology:

- **Use our SDK** to bring your own models and expertise into the platform.
- **Trigger development through our roadmap.** We learn from you about your needs. Often, your request aligns with a broader market trend. In that case, we add the devel-

opment of the missing twin or tool to our roadmap and inform you about the expected timeline.

- **Agree on a prioritized development path.** If you need the solution faster and cannot wait for the roadmap, we can define a clear timeline, scope, deliverables, and commercial commitment together.

Summary

Getting started with VirtualLab Fusion follows a clear, practical path:

1. **Start with your asset list.** What sources, components, and detectors are in your system?
2. **Check the Twin Hub.** See which Optical Digital Twins already exist for your assets.
3. **Get expert support.** We are here to help—like colleagues, not salespeople.
4. **If a twin is missing,** you have several options: roadmap integration, SDK development, or a commercial path.

We are here to support you at every step.

Where to Go Next

- Contact us at support@lighttrans.com – we encourage you to reach out. We are happy to help you find the best path for your project.
- Once we have clarified your scenario and your technical path to a solution, we also provide a full evaluation version where you can test the solution path yourself—while one of our support engineers helps you to get things done quickly.
- Explore the [Optical Digital Twin Hub](#) – browse available twins
- Read [Use Cases](#) – learn from application examples
- Browse the [Document Center](#) – find white papers and technical documentation
- Try the [Trial Version](#) – work with twins yourself

"Understand Scenario. Select Twins and Tools. Simulate and Design."