


**From:** Ralf Dietzel R.Dietzel@omicron-laser.de   
**Subject:** AW: LightHUB fiber  
**Date:** 2. May 2023 at 16:39  
**To:** Jamie White jwhite@mpi-cbg.de

RD

Hi Jamie,

o.k. !

You should have just pulled out the fiber in the opposite direction...

The fiber output connector easily fits through the feed-through in the backplane! 🤔

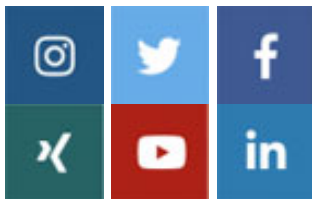
Best, Ralf

Ralf Dietzel

- Product Manager –

Omicron Laserage Laserprodukte GmbH  
Raiffeisenstr. 5e  
63110 Rodgau  
Germany  
Tel: +49-(0)6106-8224-26  
Fax: +49-(0)6106-8224-10  
e-mail: [r.dietzel@omicron-laser.de](mailto:r.dietzel@omicron-laser.de)  
Registergericht: Amtsgericht Offenbach  
HRB 22785

Geschäftsführer:  
Sönke Baumann  
Dieter Dinges  
Wolfgang Fürstenberg



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**Von:** Jamie White <jwhite@mpi-cbg.de>  
**Gesendet:** Dienstag, 2. Mai 2023 16:23  
**An:** Ralf Dietzel <R.Dietzel@omicron-laser.de>  
**Betreff:** Re: LightHUB fiber

I will return the polarising key with the fiber.

Yes, I removed it; the alignment key seemed like a tight fit through the port in the enclosure. I marked the position, but you may need to re-adjust it. Sorry.

Do you have any requirements for shipping other than careful packaging?

Best wishes,

iamie

Mobile BRD: +49 151 72145067  
Mobile USA: + 1 575 621 7879

On 2. May 2023, at 16:16, Ralf Dietzel <[R.Dietzel@omicron-laser.de](mailto:R.Dietzel@omicron-laser.de)> wrote:

Hi Jamie,

YES!

Did you remove it?!?

Normally it is not necessary to remove it...

Best, Ralf

Ralf Dietzel

- Product Manager –

Omicron Laserage Laserprodukte GmbH  
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63110 Rodgau  
Germany  
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[<image004.jpg>](#) [<image005.jpg>](#) [<image006.jpg>](#)

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**Von:** Jamie White <[jwhite@mpi-cbg.de](mailto:jwhite@mpi-cbg.de)>  
**Gesendet:** Dienstag, 2. Mai 2023 16:01  
**An:** Ralf Dietzel <[R.Dietzel@omicron-laser.de](mailto:R.Dietzel@omicron-laser.de)>  
**Betreff:** Re: LightHUB fiber

Hi Ralf,

Do you want the polarizing key returned with the fiber (Part D, diagram below)?

[<image007.png>](#)

Best wishes

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jamie

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Mobile BRD: +49 151 72145067  
Mobile USA: + 1 575 621 7879

On 27. Apr 2023, at 15:42, Ralf Dietzel <[R.Dietzel@omicron-laser.de](mailto:R.Dietzel@omicron-laser.de)> wrote:

Dear Jamie,

you may try to do this by yourself...

It involves, removing the upper housing of the LightHUB+,  
removing the old fiber, installing the new fiber, re-aligning the  
new fiber and closing the housing again:

<image007.png>

The most complicated part is feeding the fiber through the  
back-plane of the laser unit and re-aligning the fiber...

Worst case, after we receive back the original fiber, it will be  
checked for any defects / contamination. If the fiber is  
defective, we can't take it back and you would need to pay for  
the new one...

Best, Ralf

Ralf Dietzel

- Product Manager –

Omicron Laserae Laserprodukte GmbH  
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63110 Rodgau  
Germany  
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Fax: +49-(0)6106-8224-10  
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<[image001.jpg](#)> <[image002.jpg](#)> <[image003.jpg](#)>  
<[image004.jpg](#)> <[image005.jpg](#)> <[image006.jpg](#)>

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Von: Jamie White <[jwhite@mni-cha.de](mailto:jwhite@mni-cha.de)>

From: Jamie White <[jwhite@mpc.org](mailto:jwhite@mpc.org)>

**Gesendet:** Donnerstag, 27. April 2023 15:29

**An:** Ralf Dietzel <[R.Dietzel@omicron-laser.de](mailto:R.Dietzel@omicron-laser.de)>

**Betreff:** Re: LightHUB fiber

I was away last week, so we only uncapped the fiber to check the bevel of the fiber end. I expect it is in new condition. What does the replacement with an FC/APC involve? Do I need to send the unit to you?

Best wishes,

jamie

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Mobile BRD: +49 151 72145067

Mobile USA: + 1 575 621 7879

On 27. Apr 2023, at 15:07, Ralf Dietzel  
<[R.Dietzel@omicron-laser.de](mailto:R.Dietzel@omicron-laser.de)> wrote:

Hi Jamie,

this is surprising...

If the fiber of the LightHUB+ is not yet harmed / contaminated, we could replace it with a FC/APC type fiber...

Best, Ralf

Ralf Dietzel

- Product Manager –

Omicron Laserage Laserprodukte GmbH  
Raiffeisenstr. 5e  
63110 Rodgau  
Germany  
Tel: +49-(0)6106-8224-26  
Fax: +49-(0)6106-8224-10  
e-mail: [r.dietzel@omicron-laser.de](mailto:r.dietzel@omicron-laser.de)  
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<[image001.jpg](#)> <[image002.jpg](#)> <[image003.jpg](#)>  
<[image004.jpg](#)> <[image005.jpg](#)> <[image006.jpg](#)>

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**Von:** Jamie White <[jwhite@mpi-cbg.de](mailto:jwhite@mpi-cbg.de)>  
**Gesendet:** Donnerstag, 27. April 2023 13:53  
**An:** Ralf Dietzel <[R.Dietzel@omicron-laser.de](mailto:R.Dietzel@omicron-laser.de)>  
**Betreff:** Re: LightHUB fiber

Hi Ralf,

Thanks for the information. Very helpful.

On the old fiber going into CSU-X1, bevel on the tip is angled 90° relative to the tab, so it looks like our CSU-X1 uses the APC style connector. The fiber on the LightHUB angles in toward the tab, so your records are correct: it looks like an FCP8. I am not sure why ours differs from the info from Yokogawa. We should have physically checked the connector rather than relying on the specifications.

Would it be possible to swap the fiber?

Best wishes,

-jamie

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Mobile USA: + 1 575 621 7879

On 26. Apr 2023, at 17:22, Ralf Dietzel <[R.Dietzel@omicron-laser.de](mailto:R.Dietzel@omicron-laser.de)> wrote:

Hi Jamie,

what we delivered to you (according to our records) is a fiber with a FCP8 output connector.

If it doesn't fit, your Yokogawa unit has a FC/APC input, which is different from what the below given information of Yokogawa says...

What do you have on what fiber?:

<image008.png>

Best Ralf

Ralf Dietzel

- Product Manager –

Omicron Laserage Laserprodukte  
GmbH  
Raiffeisenstr. 5e  
63110 Rodgau  
Germany  
Tel: +49-(0)6106-8224-26  
Fax: +49-(0)6106-8224-10  
e-mail: [r.dietzel@omicron-laser.de](mailto:r.dietzel@omicron-laser.de)  
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[<image004.jpg>](#) [<image005.jpg>](#) [<image006.jpg>](#)

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**Von:** Jamie White <[jwhite@mpi-cbg.de](mailto:jwhite@mpi-cbg.de)>

**Gesendet:** Mittwoch, 26. April 2023  
17:00

**An:** Ralf Dietzel  
<[R.Dietzel@omicron-laser.de](mailto:R.Dietzel@omicron-laser.de)>

**Betreff:** LightHUB fiber

Hi Ralf,

The Obis driver did the trick for the 594 laser. Thanks for the tip.

The fiber coupler does not match what we are replacing. The angled section seems to be at 90° from the tab orientation. The old fiber feeding into our CSU-X1 has the angled section parallel to the tab. Is the coupler correct?

For easy reference, I pasted the relevant selection from the email thread where we were discussing the coupler.

Best wishes,

Jamie

**From:** Jamie White  
<[jwhite@mpi-cbg.de](mailto:jwhite@mpi-cbg.de)>  
**Subject:** Re: Quote for a  
**LightHUB**  
**Date:** 15. September  
2022 at 14:36:29 CEST  
**To:** Ralf Dietzel  
<[R.Dietzel@omicron-laser.de](mailto:R.Dietzel@omicron-laser.de)>

Dear Ralf,

We'd prefer the  
LightHUB+. The  
capability to easily add  
additional laser lines  
would be very useful.

The fiber connection is to  
a Yokogawa CSU-X1  
unit. The specifications  
from Yokogawa are  
below:

<image007.png>

Max Planck has a 10k  
euro purchasing  
threshold. Anything  
above that requires  
review by committee. If  
there is a way to split the  
cost over several  
purchases it would speed  
things up quite a bit.  
Would it be possible to  
initially purchase the  
combiner unit and then  
add lasers?

Best wishes,

jamie

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Mobile BRD: +49 151

72145067  
Mobile USA: + 1 575  
621 7879

On 15 Sep  
2022, at  
11:54, Ralf  
Dietzel  
<[R.Dietzel@omicron-laser.de](mailto:R.Dietzel@omicron-laser.de)>  
wrote:

Dear Jamie,

thank you for  
your e-Mail.

Do you have  
some more  
information  
for me about  
the Andor  
combiner,  
especially on  
it's fiber  
output /  
connector  
type?

I could then  
offer you a  
LightHUB-6  
or LightHUB+  
for up to 6  
wavelengths.

Do you prefer  
a basic laser  
combiner like  
LightHUB®  
or a plug &  
play laser  
engine like  
LightHUB+®:

<https://www.omicron-laser.de>



[laser.de/english/light-engines/light-hub-laser-combiner/light-hub-laser-combiner.html](https://www.omicron-laser.de/english/light-engines/light-hub-laser-combiner/light-hub-laser-combiner.html)  
|  
<https://www.omicron-laser.de/english/light-engines/light-hub-laser-engines/light-hub-laser-engines.html>

All the best,  
Ralf

On 17. Apr 2023, at  
20:04, Ralf Dietzel  
<[R.Dietzel@omicron-laser.de](mailto:R.Dietzel@omicron-laser.de)> wrote:

Hi Jamie,

You may need to install the Coherent Obis USB driver which is present on the USB stick. Then it should also appear in the software.

It is definitely in there...

It should also be mentioned in the final test sheet of the Lighthub+ unit.

Best, Ralf

Ralf Dietzel

- Produkt Manager –

Omicron Laserage  
Laserprodukte GmbH  
[Raiffeisenstr. 5e](#)  
[63110 Rodgau](#)  
[Germany](#)

Tel: [+49-\(0\)6106-8224-26](#)

Fax: [+49-\(0\)6106-8224-10](#)

e-mail: [r.dietzel@omicron-laser.de](mailto:r.dietzel@omicron-laser.de)

web: [www.omicron-laser.de](http://www.omicron-laser.de)

Registergericht:  
Amtsgericht Offenbach  
HRB 22785

Geschäftsführer:  
Sönke Baumann  
Dieter Dinges  
Wolfgang Fürstenberg

Am  
17.04.2023  
um 19:08  
schrieb  
Jamie White  
<[jwhite@mpi-cbg.de](mailto:jwhite@mpi-cbg.de)>:

Hi Ralf,

Our  
LightHUB+  
arrived on  
Friday. I  
attached the  
quote so you  
don't have to  
hunt for it. It  
is a very nice  
unit.  
However, I

cannot find  
the 594 laser.  
There is no  
Final Test  
Sheet for the  
594 laser,  
and it does  
not show up  
in Omicron  
Control  
Center. The  
445, 488, and  
515 lasers  
show up and  
work as  
expected.

I could think  
of two  
reasons:  
Either 1) the  
594nm laser  
is present but  
not  
recognised,  
or 2) the 594  
laser was not  
in fact  
installed.  
Any  
thoughts?

Best wishes,

jamie

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Mobile  
BRD: +49 151  
72145067  
Mobile USA:  
+ 1 575 621  
7879

<Quotation  
MPI Dresden  
LightHUBplus  
20221212  
RD.pdf>



