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Institute of Physics
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Order confirmation

Number / Data
30045404 / 27/10/2020
Ref. Number/Date
7720430796 / 23/10/2020
Quotation Number/Date
20025844 / 16/10/2020
Customer no. / VAT-No.
25012 / CZ68378271
Contact / Direct Call
[REDACTED] / 0049 36453 744 0
Email
info@layertec.de

Dear [REDACTED],

Thank you very much for your order. We confirm to our sales conditions to following items:

Currency EUR

Terms of payment Within 30 days without deduction
Terms of delivery (Incoterms 2020) DPU Dolni Brezany

HiLASE Centre of Excellence
Identification Nr.
CZ.02.1.01/0.0/0.0/15_006/0000674

Item	Material	Delivery Date	Qty	Price	Value
10	122634 Laser mirror: Fused silica plane Ø=25.0(-0.1)mm t=3.05(±0.10)mm //<5min S1: commercial polish chamfer 0.2 uncoated S2(^): Øe21 3/-(0.2) [L/10 reg.] 5/2x0.04; L1x0.004 chamfer 0.2 HRu(0-10°,1850-2100nm)>99.9%	30.10.2020	[REDACTED]	[REDACTED]	[REDACTED]
20	106768 Laser mirror: Fused silica (IR) pl-concave Ø=12.7(-0.1)mm te=6.35(±0.10)mm wedge=60min S1: wedge side commercial polish chamfer 1.0 uncoated S2(^): r=1000mm(±1%) CC Øe10 3/-(0.5) [L/4 reg.] 5/1x0.025; L1x0.004 chamfer 0.3 HR(0°,1900-2200nm)>99.9%	30.10.2020	[REDACTED]	[REDACTED]	- [REDACTED]

USt-ID. (VAT-No.): DE 313635443 Geschäftsführer (CEO) Hartmut Heyer	Amtsgericht (Court of Registry): Jena HRB 513793	Sparkasse Mittelthuringen (Germany) IBAN: DE36 8205 1000 0125 0250 17 BIC: HELA DEF 1WEM	UniCredit Bank AG, Jena IBAN: DE38 8202 0087 0015 4132 20 BIC: HYVE DEM M098
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30 112026 30.10.2020

Laser Mirror:

Fused silica | pl-concave | $\varnothing=12.7(-0.1)$ mm | $t_e=6.35(\pm 0.10)$ mm | $//<5$ min

S1: commercial polish | chamfer 0.3

uncoated

S2(\wedge): $r=75$ mm($\pm 0.5\%$) CC | $\varnothing e10$ | 3/-(0.2) [L/10 reg.] | 5/1x0.025;

L1x0.004 | chamfer 0.3

HR(0° , 1850-2200nm) $>99.9\%$

40 105855 30.10.2020

Output Coupler:

Fused silica (IR) | plane | $\varnothing=12.7(-0.1)$ mm | $t=6.35(\pm 0.10)$ mm | $//<5$ min

S1: $\varnothing e10$ | 3/0.2(0.2) [L/10] | 5/1x0.025; L1x0.004 | chamfer 0.3

AR(0° , 1820-2050nm) $<0.3\%$

S2(\wedge): $\varnothing e10$ | 3/0.2(0.2) [L/10] | 5/1x0.025; L1x0.004 | chamfer 0.3

PR(0° , 1820-2050nm) $=85(\pm 1)\%$

50 103062 30.10.2020

Output Coupler:

Fused silica (IR) | plane | $\varnothing=12.7(-0.1)$ mm | $t=6.35(\pm 0.10)$ mm | $//<5$ min

S1: $\varnothing e10$ | 3/0.2(0.2) [L/10] | 5/1x0.025; L1x0.004 | chamfer 0.3

AR(0° , 1820-2050nm) $<0.3\%$

S2(\wedge): $\varnothing e10$ | 3/0.2(0.2) [L/10] | 5/1x0.025; L1x0.004 | chamfer 0.3

PR(0° , 1820-2050nm) $=95(\pm 1)\%$

60 105856 30.10.2020

Output Coupler:

Fused silica (IR) | plane | $\varnothing=12.7(-0.1)$ mm | $t=6.35(\pm 0.10)$ mm | $//<5$ min

S1: $\varnothing e10$ | 3/0.2(0.2) [L/10] | 5/1x0.025; L1x0.004 | chamfer 0.3

AR(0° , 1820-2050nm) $<0.3\%$

S2(\wedge): $\varnothing e10$ | 3/0.2(0.2) [L/10] | 5/1x0.025; L1x0.004 | chamfer 0.3

PR(0° , 1820-2050nm) $=90(\pm 2)\%$

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70 101319 30.10.2020

Output Coupler:

Fused silica (IR) | plane | $\varnothing=25.0(-0.1)$ mm | $t=6.35(\pm 0.10)$ mm | $//<5$ min

S1: $\varnothing e21$ | 3/0.2(0.2) [L/10] | 5/2x0.04; L1x0.004 | chamfer 0.3

AR(0°, 1700-2700nm)<0.5%

S2(^): $\varnothing e21$ | 3/0.2(0.2) [L/10] | 5/2x0.04; L1x0.004 | chamfer 0.3

PR(0°, 1700-2700nm)=70(±5)%

80 103566 30.10.2020

Pump Mirror:

Fused silica (IR) | plane | $\varnothing=12.7(-0.1)$ mm | $t=6.35(\pm 0.10)$ mm | $//<5$ min

S1: $\varnothing e10$ | 3/0.2(0.2) [L/10] | 5/1x0.025; L1x0.004 | chamfer 0.3

AR(0°, 770-1050nm)<0.25%

S2(^): $\varnothing e10$ | 3/0.2(0.2) [L/10] | 5/1x0.025; L1x0.004 | chamfer 0.3

HR(0°, 1800-2075(±20)nm)>99.9% + R(0°, 808+980nm)<2%

90 101068 30.10.2020

Laser Mirror:

Fused silica | plane | $\varnothing=12.7(-0.1)$ mm | $t=6.35(\pm 0.10)$ mm | $//<5$ min

S1: commercial polish | chamfer 0.3

uncoated

S2(^): $\varnothing e10$ | 3/0.2(0.2) [L/10] | 3/0.2(0.2) [L/10] | 5/1x0.025;

L1x0.004 | chamfer 0.3

HR(0°, 1400-1700nm)>99.8%

100 101175 30.10.2020

Output Coupler:

Fused silica (IR) | plane | $\varnothing=12.7(-0.1)$ mm | $t=3.0(\pm 0.1)$ mm | $//<5$ min

S1: $\varnothing e10$ | 3/0.2(0.2) [L/10] | 5/1x0.025; L1x0.004 | chamfer 0.2

AR(0°, 1280-1520nm)<0.25%

S2(^): $\varnothing e10$ | 3/0.2(0.2) [L/10] | 5/1x0.025; L1x0.004 | chamfer 0.2

PR(0°, 1280-1520nm)=99.0(±0.3)%

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110 106929 30.10.2020

Output Coupler:

Fused silica (IR) | plane | $\varnothing=25.0(-0.1)$ mm | $t=3.0(\pm 0.1)$ mm | $//<5$ min

S1: $\varnothing e21$ | $3/-(0.2)$ [L/10 reg.] | $5/2 \times 0.04$; $L1 \times 0.004$ | chamfer 0.3

AR(0° , 1000-1500nm) $<0.5\%$

S2(\wedge): $\varnothing e21$ | $3/-(0.2)$ [L/10 reg.] | $5/2 \times 0.04$; $L1 \times 0.004$ | chamfer 0.3

PR(0° , 1000-1500nm) $=97.50(\pm 0.75)\%$

120 100717 30.10.2020

Turning Mirror:

Fused silica | plane | $\varnothing=25.0(-0.1)$ mm | $t=6.35(\pm 0.10)$ mm | $//<5$ min

S1: commercial polish | chamfer 0.3

uncoated

S2(\wedge): $\varnothing e21$ | $3/0.2(0.2)$ [L/10] | $5/1 \times 0.04$; $L1 \times 0.004$ | chamfer 0.3

$\varnothing e10$ | $5/1 \times 0.016$

HRu(45° , 1030-1064nm) $>99.9\%$ (High Power)

130 110925 30.10.2020

Short Wave Pass Filter:

Fused silica | plane | $\varnothing=25.0(-0.1)$ mm | $t=6.35(\pm 0.10)$ mm | $//<5$ min

S1: $\varnothing e21$ | $3/0.2(0.2)$ [L/10] | $5/2 \times 0.04$; $L1 \times 0.004$ | chamfer 0.3

AR(0° , 808-985nm) $<0.25\%$

S2(\wedge): $\varnothing e21$ | $3/0.2(0.2)$ [L/10] | $5/3 \times 0.04$; $L1 \times 0.004$ | chamfer 0.3

HR(0° , 1025-1100nm) $>99.9\%$ + R(0° , 808-985nm) $<2\%$

140 103611 30.10.2020

Laser Mirror:

Fused silica | pl-concave | $\varnothing=25.0(-0.1)$ mm | $t_e=6.35(\pm 0.10)$ mm | $//<5$ min

S1: $\varnothing 21$ | $3/0.2(0.2)$ [L/10] | $5/1 \times 0.04$; $L1 \times 0.004$ | chamfer 0.3

uncoated

S2(\wedge): $r=300$ mm($\pm 0.5\%$) CC | $\varnothing 21$ | $3/-(0.2)$ [L/10 reg.] | $5/1 \times 0.04$;

$L1 \times 0.004$ | chamfer 0.3

$\varnothing e10$ | $5/1 \times 0.016$

HR(0° , 1000-1110nm) $>99.98\%$ (low loss)

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150 105257 30.10.2020

Laser Mirror:

Fused silica | pl-concave | Ø=25.0(-0.1)mm | te=6.35(±0.10)mm | //<5min

S1: commercial polish | chamfer 0.3

uncoated

S2(^): r=2000mm(±1%) CC | Øe21 | 3/-(0.2) [L/10 reg.] | 5/1x0.04;

L1x0.004 | chamfer 0.3

Øe10 | 5/1x0.016

HR(0°,1010-1070nm)>99.9% (High Power)

160 100693 30.10.2020

Laser Mirror:

Fused silica | pl-concave | Ø=25.0(-0.1)mm | te=6.35(±0.10)mm | //<5min

S1: commercial polish | chamfer 0.3

uncoated

S2(^): r=500mm(±0.5%) CC | Øe21 | 3/-(0.2) [L/10 reg.] | 5/1x0.04;

L1x0.004 | chamfer 0.3

Øe10 | 5/1x0.016

HR(0°,1020-1070nm)>99.95% (High Power)

170 112445 30.10.2020

Laser mirror:

Fused silica | pl-concave | Ø=25.0(-0.1)mm | te=6.35(±0.10)mm | //<5min

S1: commercial polish | chamfer 0.3

uncoated

S2(^): r=4000mm(±1%) CC | Øe21 | 3/-(0.2) [L/10 reg.] | 5/1x0.04;

L1x0.004 | chamfer 0.3

Øe10 | 5/1x0.016

HR(0°,1030(±30)nm)>99.98% (high power for ps pulses)

180 108612 30.10.2020

Laser mirror:

Fused silica | pl-concave | Ø=25.0(-0.1)mm | te=6.35(±0.10)mm | //<5min

S1: Commercial polish | chamfer 0.3

uncoated

S2(^): r=1000mm(±1%) CC | Øe21 | 3/-(0.2) [L/10 reg.] | 5/2x0.04;

L1x0.004 | chamfer 0.3

HR(0°,1030-1064nm)>99.9%

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190	104290	30.10.2020	■	■	■
<p>Laser Mirror: Fused silica pl-concave Ø=25.4(-0.1)mm te=6.35(±0.10)mm //<5min S1: commercial polish chamfer 0.3 uncoated S2(^): r=1500mm(±1%) CC Øe21 3/-(0.2) [L/10 reg.] 5/1x0.04; L1x0.004 chamfer 0.3 Øe10 5/1x0.016 HR(0°,1030-1064nm)>99.9% (high power)</p>					
200	100352	30.10.2020	■	■	■
<p>Laser Mirror: Fused silica pl-concave Ø=25.0(-0.1)mm te=6.35(±0.10)mm //<5min S1: commercial polish chamfer 0.3 uncoated S2(^): r=3000mm(±1%) CC Øe21 3/-(0.2) [L/10 reg.] 5/1x0.04; L1x0.004 chamfer 0.3 Øe10 5/1x0.016 HR(0°,1030-1064nm)>99.9% (high power)</p>					
210	108343	30.10.2020	1 ■	■	■
<p>Laser mirror: Fused silica pl-convex Ø=25.0(-0.1)mm tc=6.35(±0.10)mm //<5min S1: Commercial polish chamfer 0.3 uncoated S2(^): r=5000mm(±1%) CX Øe21 3/-(0.2) [L/10 reg.] 5/2x0.04; L1x0.004 chamfer 0.3 HR(0°,1010-1060nm)>99.9%</p>					
220	112737	30.10.2020	■	■	■
<p>Laser Mirror: Fused silica pl-convex Ø=25.0(-0.1)mm tc=6.35(±0.10)mm //<5min S1: commercial polish chamfer 0.3 uncoated S2(^): r=7000(±1%)mm CX Øe21 3/-(0.5) [L/4 reg.] 5/1x0.04; L1x0.004 chamfer 0.3 Øe10 5/1x0.016 HR(0°,1020-1070nm)>99.9% (High Power)</p>					

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230 111438 30.10.2020

Laser Mirror:

Fused silica | pl-convex | $\varnothing=25.0(-0.1)$ mm | $tc=6.35(\pm 0.10)$ mm | $//<5$ min

S1: commercial polish | chamfer 0.3

uncoated

S2(\wedge): $r=800$ mm($\pm 0.5\%$) CX | $\varnothing e21$ | 3/-(0.2) [L/10 reg.] | 5/1x0.04;

L1x0.004 | chamfer 0.3

$\varnothing e10$ | 5/1x0.016

HR(0° , 1030-1064nm) $>99.9\%$ (High Power)

240 102505 30.10.2020

Laser Mirror:

Fused silica | pl-convex | $\varnothing=25.0(-0.1)$ mm | $tc=6.35(\pm 0.10)$ mm | $//<5$ min

S1: commercial polish | chamfer 0.3

uncoated

S2(\wedge): $r=1000$ mm($\pm 1\%$) CX | $\varnothing e21$ | 3/-(0.2) [L/10 reg.] | 5/1x0.04;

L1x0.004 | chamfer 0.3

$\varnothing e10$ | 5/1x0.016

HR(0° , 1030-1064nm) $>99.9\%$ (High Power)

250 142818 30.10.2020

Laser Mirror:

Fused silica | pl-convex | $\varnothing=25.0(-0.1)$ mm | $tc=6.35(\pm 0.10)$ mm | $//<5$ min

S1: commercial polish | chamfer 0.3

uncoated

S2(\wedge): $r=1500$ mm($\pm 1\%$) CX | $\varnothing e21$ | 3/-(0.2) [L/10 reg.] | 5/1x0.04;

L1x0.004 | chamfer 0.3

$\varnothing e10$ | 5/1x0.016

HR(0° , 1030-1064nm) $>99.9\%$ (High Power)

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260 107069 30.10.2020

Laser Mirror:

Fused silica | pl-convex | Ø=25.0(-0.1)mm | tc=6.35(±0.10)mm | //<5min

S1: commercial polish | chamfer 0.3

uncoated

S2(^): r=2000mm(±1%) CX | Øe21 | 3/-(0.2) [L/10 reg.] | 5/1x0.04;

L1x0.004 | chamfer 0.3

Øe10 | 5/1x0.016

HR(0°,1030-1064nm)>99.9% (High Power)

270 100733 30.10.2020

Laser mirror:

Fused silica | pl-convex | Ø=12.7(-0.1)mm | tc=6.35(±0.10)mm | //<5min

S1: commercial polish | chamfer 0.3

uncoated

S2(^): r=500mm(±0.5%) CX | Øe8 | 3/-(0.2) [L/10 reg.] | 5/1x0.016;

L1x0.004 | chamfer 0.3

HR(0°,1030-1064nm)>99.9% (high power)

280 105259 30.10.2020

Laser Mirror:

Fused silica | pl-concave | Ø=25.0(-0.1)mm | te=6.35(±0.10)mm | //<5min

S1: commercial polish | chamfer 0.3

uncoated

S2(^): r=5000mm(±2%) CC | Øe21 | 3/-(0.2) [L/10 reg.] | 5/1x0.04;

L1x0.004 | chamfer 0.3

Øe10 | 5/1x0.04

HR(0°,1010-1070nm)>99.9% (High Power)

290 106816 30.10.2020

Turning Mirror:

Fused silica | plane | Ø=25.0(-0.1)mm | t=6.35(±0.10)mm | //<5min

S1: commercial polish | chamfer 0.3

uncoated

S2(^): Øe21 | 3/0.2(0.2) [L/10] | 5/2x0.04; L1x0.004 | chamfer 0.3

HRu(45°,1000-1090nm)>99.9%

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300 108286 30.10.2020

Laser Mirror:

Corning 7972 (ULE) | pl-convex | Ø=25.0(-0.1)mm | tc=6.35(±0.10)mm | //
<5min

S1: commercial polish | chamfer 0.3
uncoated

S2(^): r=1500mm(±1%) CX | Øe21 | 3/-(0.2) [L/10 reg.] | 5/1x0.04;
L1x0.004 | chamfer 0.3

Øe10 | 5/1x0.016

HR(0°,1030(±30)nm)>99.98% (high power for ps pulses)

310 108279 30.10.2020

Laser Mirror:

Corning 7972 (ULE) | pl-concave | Ø=25.0(-0.1)mm | te=6.35(±0.10)mm | //
<5min

S1: commercial polish | chamfer 0.3
uncoated

S2(^): r=3000mm(±1%) CC | Øe21 | 3/-(0.2) [L/10 reg.] | 5/1x0.04;
L1x0.004 | chamfer 0.3

Øe10 | 5/1x0.016

HR(0°,1030(±30)nm)>99.98% (High power for ps pulses)

320 108063 08.12.2020

Turning Mirror:

Corning 7972 (ULE) | plane | Ø=25.0(-0.1)mm | t=6.35(±0.10)mm | //<5min

S1: commercial polish | chamfer 0.3
uncoated

S2(^): Øe21 | 3/0.4(0.2) [L/10 reg.] | 5/1x0.04; L1x0.004 | chamfer 0.3
Øe10 | 5/1x0.016

HRu(45°,990-1070nm)>99.98% (high power for ps pulses)

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330	108060	30.10.2020			
Laser Mirror:					
Corning 7972 (ULE) plane Ø=25.0(-0.1)mm t=6.35(±0.10)mm //<5min					
S1: commercial polish chamfer 0.3					
uncoated					
S2(Λ): Øe21 3/0.4(0.2) [L/10 reg.] 5/1x0.04 L1x0.004 chamfer 0.3					
Øe10 5/1x0.016					
HR(0°,1000-1060nm)>99.98% (high power for ps pulses)					
340	104776	08.12.2020			
Pump Mirror:					
Fused silica plane Ø=12.7(-0.1)mm t=6.35(±0.10)mm //<5min					
S1: Øe10 3/0.2(0.2) [L/10] 5/1x0.025; L1x0.004 chamfer 0.3					
AR(0°,870-1050nm)<0.25%					
S2(Λ): Øe10 3/0.2(0.2) [L/10] 5/1x0.025; L1x0.004 chamfer 0.3					
HR(0°,1420-1720nm)>99.9% + R(0°,870-1050nm)<2%					
GDD-R(0°,1450-1650nm) <50fs ²					
350	105080	08.12.2020			
Output Coupler:					
Fused silica plane Ø=12.7(-0.1)mm t=6.35(±0.10)mm //<5min					
S1: Øe10 3/0.2(0.2) [L/10] 5/1x0.04; L1x0.004 chamfer 0.3					
AR(0°,1400-1700nm)<0.2%					
S2(Λ): Øe10 3/0.2(0.2) [L/10] 5/1x0.04; L1x0.004 chamfer 0.3					
PR(0°,1450-1670±10nm)=99.35(±0.20)%					

Items total	13.507,75
UPS Standard EU	25,00
Net Amount	13.532,75
Output Tax	0,00
Final amount	13.532,75

USt-ID. (VAT-No.): DE 313635443
Geschäftsführer (CEO)
Hartmut Heyer

Amtsgericht (Court of Registry):
Jena HRB 513793

Sparkasse Mittelthuringen (Germany)
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Institute of Physics of the AS CR
Na Slovence 2
182 21 PRAGUE 8
TSCHECHISCHE REPUBLIK

Ship-to address

Inst. of Physics ASCR, v.v. i.
HiLASE Centre
Za Radnici 828
252 41 DOLNI BREZANY
TSCHECHISCHE REPUBLIK

Please note, during the period from 21th December 2020 until 4th of January 2021 LAYERTEC GmbH cannot accept or deliver any shipments.

USt-ID. (VAT-No.): DE 313635443
Geschäftsführer (CEO)
Hartmut Heyer

Amtsgericht (Court of Registry):
Jena HRB 513793

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