

Final Results per stage and division
Vepsestikket pistol
2019-05-25

OPEN Results per stage

Stage: 1. st.1

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #.# Name	DIV	CAT	CLS	ICS
1	100.00	40.0000	14.5038	38	2.62	8. Rino olsen	+Open	-	A	rinos
2	89.28	35.7137	12.9496	36	2.78	34. Geir Haavard Jonsfet	+Open	-	A	ghjons
3	80.12	32.0489	11.6208	38	3.27	20. Jon Szulist	+Open	-	U	jonsz
4	68.54	27.4177	9.9415	34	3.42	17. Øivind Johnsen	+Open	S	B	ojoh
5	58.78	23.5120	8.5253	37	4.34	44. Johanne Aspaas	+Open	L	U	johanne
6	57.70	23.0811	8.3691	39	4.66	57. Lars Marius Harang	+Open	-	U	
7	40.48	16.1912	5.8708	30	5.11	24. Stian Johansen	-Open	S	U	mrslow

Stage: 2. St. 2

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #.# Name	DIV	CAT	CLS	ICS
1	100.00	90.0000	8.8865	83	9.34	8. Rino olsen	+Open	-	A	rinos
2	97.95	88.1542	8.7043	88	10.11	34. Geir Haavard Jonsfet	+Open	-	A	ghjons
3	89.68	80.7142	7.9696	84	10.54	17. Øivind Johnsen	+Open	S	B	ojoh
4	69.47	62.5257	6.1737	86	13.93	44. Johanne Aspaas	+Open	L	U	johanne
5	61.42	55.2780	5.4581	84	15.39	24. Stian Johansen	-Open	S	U	mrslow
6	33.98	30.5803	3.0195	76	25.17	57. Lars Marius Harang	+Open	-	U	
7	28.31	25.4817	2.5160	51	20.27	20. Jon Szulist	+Open	-	U	jonsz

Stage: 3. St. 3

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #.# Name	DIV	CAT	CLS	ICS
1	100.00	100.0000	5.6173	91	16.20	8. Rino olsen	+Open	-	A	rinos
2	98.29	98.2943	5.5215	99	17.93	34. Geir Haavard Jonsfet	+Open	-	A	ghjons
3	86.42	86.4184	4.8544	95	19.57	17. Øivind Johnsen	+Open	S	B	ojoh
4	80.50	80.4998	4.5219	96	21.23	44. Johanne Aspaas	+Open	L	U	johanne
5	76.56	76.5587	4.3005	83	19.30	20. Jon Szulist	+Open	-	U	jonsz
6	61.00	61.0044	3.4268	99	28.89	57. Lars Marius Harang	+Open	-	U	
7	58.49	58.4903	3.2856	94	28.61	24. Stian Johansen	-Open	S	U	mrslow

Stage: 4. St.4

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #.# Name	DIV	CAT	CLS	ICS
1	100.00	40.0000	10.3093	40	3.88	34. Geir Haavard Jonsfet	+Open	-	A	ghjons
2	71.21	28.4841	7.3413	37	5.04	20. Jon Szulist	+Open	-	U	jonsz
3	70.71	28.2841	7.2897	39	5.35	8. Rino olsen	+Open	-	A	rinos
4	66.06	26.4229	6.8100	38	5.58	17. Øivind Johnsen	+Open	S	B	ojoh
5	65.52	26.2064	6.7542	36	5.33	44. Johanne Aspaas	+Open	L	U	johanne
6	56.29	22.5179	5.8036	39	6.72	57. Lars Marius Harang	+Open	-	U	

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT CLS		ICS
7	38.34	15.3360	3.9526	30	7.59	24. Stian Johansen	-Open	S	U	mrslow

Stage: 5. St. 5

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT CLS		ICS
1	100.00	160.0000	7.8473	148	18.86	8. Rino olsen	+Open	-	A	rinos
2	84.62	135.3935	6.6405	152	22.89	17. Øivind Johnsen	+Open	S	B	ojoh
3	77.11	123.3815	6.0513	158	26.11	34. Geir Haavard Jonsfet	+Open	-	A	ghjons
4	67.05	107.2734	5.2613	148	28.13	44. Johanne Aspaas	+Open	L	U	johanne
5	63.94	102.3085	5.0178	127	25.31	20. Jon Szulist	+Open	-	U	jonsz
6	61.97	99.1454	4.8626	154	31.67	57. Lars Marius Harang	+Open	-	U	
7	59.23	94.7714	4.6481	142	30.55	24. Stian Johansen	-Open	S	U	mrslow

STANDARD Results per stage

Stage: 1. st.1

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	40.0000	11.5016	36	3.13	40. Jan Skogli	-Standard	-	U	
2	91.65	36.6603	10.5413	37	3.51	53. Lars Syversen	+Standard	S	M	iceman67
3	66.88	26.7521	7.6923	40	5.20	29. Martin Meltzer	-Standard	-	U	
4	63.16	25.2623	7.2639	30	4.13	52. Joakim Skogli	-Standard	-	U	
5	51.04	20.4175	5.8708	30	5.11	25. Rolf Pedersen	-Standard	-	U	mikeimike
6	45.85	18.3412	5.2738	26	4.93	47. Christian Bjåland	-Standard	-	U	
7	40.62	16.2466	4.6715	32	6.85	45. Anders Høgseth	-Standard	-	U	
8	29.67	11.8664	3.4121	13	3.81	49. Eivind Ballestad	-Standard	-	U	
9	29.50	11.8008	3.3932	17	5.01	6. Jan Georg Lauvåsen	-Standard	-	U	callandor

Stage: 2. St. 2

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	90.0000	8.5896	81	9.43	53. Lars Syversen	+Standard	S	M	iceman67
2	88.07	79.2599	7.5646	82	10.84	40. Jan Skogli	-Standard	-	U	
3	56.76	51.0834	4.8754	90	18.46	29. Martin Meltzer	-Standard	-	U	
4	47.63	42.8668	4.0912	61	14.91	49. Eivind Ballestad	-Standard	-	U	
5	47.18	42.4580	4.0522	59	14.56	52. Joakim Skogli	-Standard	-	U	
6	42.66	38.3977	3.6647	80	21.83	45. Anders Høgseth	-Standard	-	U	
7	42.21	37.9880	3.6256	55	15.17	47. Christian Bjåland	-Standard	-	U	
8	37.78	34.0038	3.2453	59	18.18	25. Rolf Pedersen	-Standard	-	U	mikeimike
9	32.83	29.5439	2.8197	86	30.50	6. Jan Georg Lauvåsen	-Standard	-	U	callandor

Stage: 3. St. 3

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	100.0000	5.8749	93	15.83	53. Lars Syversen	+Standard	S	M	iceman67
2	69.41	69.4139	4.0780	92	22.56	40. Jan Skogli	-Standard	-	U	
3	63.62	63.6186	3.7375	90	24.08	49. Eivind Ballestad	-Standard	-	U	
4	61.05	61.0507	3.5867	84	23.42	52. Joakim Skogli	-Standard	-	U	
5	53.77	53.7739	3.1592	78	24.69	47. Christian Bjåland	-Standard	-	U	
6	53.07	53.0687	3.1177	94	30.15	29. Martin Meltzer	-Standard	-	U	
7	50.26	50.2634	2.9529	96	32.51	25. Rolf Pedersen	-Standard	-	U	mikeimike
8	46.47	46.4654	2.7298	98	35.90	6. Jan Georg Lauvåsen	-Standard	-	U	callandor
9	25.47	25.4728	1.4965	45	30.07	45. Anders Høgseth	-Standard	-	U	

Stage: 4. St.4

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	40.0000	7.4766	32	4.28	40. Jan Skogli	-Standard	-	U	
2	98.39	39.3563	7.3563	32	4.35	53. Lars Syversen	+Standard	S	M	iceman67
3	85.98	34.3929	6.4286	36	5.60	52. Joakim Skogli	-Standard	-	U	
4	80.91	32.3629	6.0491	32	5.29	49. Eivind Ballestad	-Standard	-	U	
5	69.57	27.8283	5.2016	40	7.69	29. Martin Meltzer	-Standard	-	U	
6	66.69	26.6759	4.9861	36	7.22	47. Christian Bjåland	-Standard	-	U	
7	53.79	21.5147	4.0214	30	7.46	25. Rolf Pedersen	-Standard	-	U	mikeimike
8	49.31	19.7235	3.6866	32	8.68	45. Anders Høgseth	-Standard	-	U	
9	34.20	13.6790	2.5568	36	14.08	6. Jan Georg Lauvåsen	-Standard	-	U	callandor

Stage: 5. St. 5

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	160.0000	5.8167	146	25.10	40. Jan Skogli	-Standard	-	U	
2	75.20	120.3216	4.3742	144	32.92	52. Joakim Skogli	-Standard	-	U	
3	71.79	114.8573	4.1756	156	37.36	29. Martin Meltzer	-Standard	-	U	
4	69.09	110.5497	4.0190	127	31.60	47. Christian Bjåland	-Standard	-	U	
5	66.46	106.3428	3.8660	142	36.73	25. Rolf Pedersen	-Standard	-	U	mikeimike
6	66.21	105.9296	3.8510	152	39.47	6. Jan Georg Lauvåsen	-Standard	-	U	callandor
7	65.79	105.2689	3.8270	123	32.14	49. Eivind Ballestad	-Standard	-	U	
8	60.46	96.7432	3.5171	134	38.10	53. Lars Syversen	+Standard	S	M	iceman67
9	59.02	94.4286	3.4329	131	38.16	45. Anders Høgseth	-Standard	-	U	

PRODUCTION Results per stage

Stage: 1. st.1

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	40.0000	9.4241	36	3.82	58. Kurt Tore Flaten	-Production	-	U	
2	90.95	36.3810	8.5714	36	4.20	14. Hugo Zimmermann	-Production	-	C	iceman73
3	90.61	36.2447	8.5393	38	4.45	19. Martin Hjelmerud	-Production	-	U	helmet
4	82.90	33.1597	7.8125	40	5.12	36. Raymond Atterås	-Production	-	U	rayray
5	81.87	32.7465	7.7151	26	3.37	38. Kjell Idar Logan	-Production	-	D	perulv
6	80.27	32.1093	7.5650	32	4.23	50. Kristoffer Kleiv	-Production	-	U	
7	74.23	29.6936	6.9959	34	4.86	59. Petter Platou	-Production	-	U	
8	74.20	29.6814	6.9930	30	4.29	43. Thomas Sirland	-Production	-	D	
9	71.08	28.4317	6.6986	28	4.18	39. Snorre Øien	-Production	S	U	shybert
10	66.32	26.5278	6.2500	36	5.76	30. Ole-Martin Kristoffersen	-Production	-	D	chillywilly
11	65.36	26.1433	6.1594	17	2.76	54. Nils Arne Langeland	-Production	-	U	
12	60.03	24.0118	5.6572	34	6.01	13. Per Ludvigsen	-Production	S	U	sfih
13	56.00	22.3981	5.2770	20	3.79	55. Ove Ørjansen	-Production	-	U	
14	49.17	19.6694	4.6341	19	4.10	23. Sjur Stokke	-Production	SS	U	7rlog
15	32.31	12.9222	3.0445	13	4.27	3. Kevin Hunter Nielsen	-Production	-	U	friendlyfire
16	21.63	8.6528	2.0386	19	9.32	32. Andreas Bjørnseth	-Production	-	U	
17	7.12	2.8486	0.6711	2	2.98	7. Simen Ludvigsen	-Production	-	U	

Stage: 2. St. 2

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	90.0000	8.1918	82	10.01	54. Nils Arne Langeland	-Production	-	U	
2	86.88	78.1963	7.1174	80	11.24	38. Kjell Idar Logan	-Production	-	D	perulv
3	74.88	67.3927	6.1341	86	14.02	19. Martin Hjelmerud	-Production	-	U	helmet
4	67.04	60.3362	5.4918	67	12.20	7. Simen Ludvigsen	-Production	-	U	
5	66.47	59.8239	5.4452	74	13.59	39. Snorre Øien	-Production	S	U	shybert
6	61.64	55.4804	5.0498	76	15.05	36. Raymond Atterås	-Production	-	U	rayray
7	60.24	54.2195	4.9351	76	15.40	58. Kurt Tore Flaten	-Production	-	U	
8	60.17	54.1528	4.9290	59	11.97	14. Hugo Zimmermann	-Production	-	C	iceman73
9	59.65	53.6889	4.8868	82	16.78	59. Petter Platou	-Production	-	U	
10	58.41	52.5731	4.7852	88	18.39	32. Andreas Bjørnseth	-Production	-	U	
11	56.53	50.8766	4.6308	74	15.98	50. Kristoffer Kleiv	-Production	-	U	
12	52.94	47.6473	4.3369	86	19.83	23. Sjur Stokke	-Production	SS	U	7rlog
13	50.94	45.8426	4.1726	88	21.09	13. Per Ludvigsen	-Production	S	U	sfih
14	49.59	44.6350	4.0627	70	17.23	55. Ove Ørjansen	-Production	-	U	
15	46.28	41.6553	3.7915	72	18.99	3. Kevin Hunter Nielsen	-Production	-	U	friendlyfire
16	41.93	37.7382	3.4349	71	20.67	43. Thomas Sirland	-Production	-	D	
17	39.33	35.3967	3.2218	78	24.21	30. Ole-Martin Kristoffersen	-Production	-	D	chillywilly

Stage: 3. St. 3

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	100.0000	5.0847	90	17.70	54. Nils Arne Langeland	-Production	-	U	
2	83.31	83.3148	4.2363	76	17.94	7. Simen Ludvigsen	-Production	-	U	
3	80.20	80.2009	4.0780	92	22.56	14. Hugo Zimmermann	-Production	-	C	iceman73
4	76.53	76.5309	3.8914	86	22.10	39. Snorre Øien	-Production	S	U	shybert
5	71.04	71.0407	3.6122	98	27.13	36. Raymond Atterås	-Production	-	U	rayray
6	64.50	64.4988	3.2796	59	17.99	38. Kjell Idar Logan	-Production	-	D	perulv
7	64.21	64.2121	3.2650	94	28.79	13. Per Ludvigsen	-Production	S	U	sfih
8	62.58	62.5795	3.1820	75	23.57	19. Martin Hjelmerud	-Production	-	U	helmet
9	56.42	56.4183	2.8687	92	32.07	30. Ole-Martin Kristoffersen	-Production	-	D	chillywilly
10	50.54	50.5400	2.5698	69	26.85	50. Kristoffer Kleiv	-Production	-	U	
11	46.00	45.9995	2.3390	61	26.08	58. Kurt Tore Flaten	-Production	-	U	
12	38.84	38.8436	1.9751	46	23.29	59. Petter Platou	-Production	-	U	
13	36.03	36.0305	1.8321	48	26.20	55. Ove Ørjansen	-Production	-	U	
14	32.70	32.7015	1.6628	50	30.07	23. Sjur Stokke	-Production	SS	U	7rlog
15	32.67	32.6710	1.6612	51	30.70	3. Kevin Hunter Nielsen	-Production	-	U	friendlyfire
16	22.06	22.0587	1.1216	32	28.53	32. Andreas Bjørnseth	-Production	-	U	
17	0.00	0.0000	0.0000	0	18.52	43. Thomas Sirland	-Production	-	D	

Stage: 4. St.4

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	40.0000	7.2072	32	4.44	38. Kjell Idar Logan	-Production	-	D	perulv
2	97.87	39.1494	7.0539	34	4.82	14. Hugo Zimmermann	-Production	-	C	iceman73
3	95.69	38.2759	6.8966	30	4.35	54. Nils Arne Langeland	-Production	-	U	
4	89.52	35.8065	6.4516	22	3.41	7. Simen Ludvigsen	-Production	-	U	
5	86.90	34.7599	6.2630	30	4.79	39. Snorre Øien	-Production	S	U	shybert
6	78.64	31.4575	5.6680	28	4.94	55. Ove Ørjansen	-Production	-	U	
7	75.48	30.1920	5.4400	34	6.25	50. Kristoffer Kleiv	-Production	-	U	
8	72.71	29.0830	5.2402	36	6.87	58. Kurt Tore Flaten	-Production	-	U	
9	72.60	29.0407	5.2326	36	6.88	19. Martin Hjelmerud	-Production	-	U	helmet
10	70.65	28.2603	5.0919	36	7.07	36. Raymond Atterås	-Production	-	U	rayray
11	65.22	26.0870	4.7004	40	8.51	13. Per Ludvigsen	-Production	S	U	sfih
12	62.73	25.0931	4.5213	34	7.52	32. Andreas Bjørnseth	-Production	-	U	
13	57.81	23.1250	4.1667	30	7.20	30. Ole-Martin Kristoffersen	-Production	-	D	chillywilly
14	51.74	20.6968	3.7291	38	10.19	23. Sjur Stokke	-Production	SS	U	7rlog
15	39.64	15.8571	2.8571	17	5.95	43. Thomas Sirland	-Production	-	D	
16	32.55	13.0185	2.3457	19	8.10	59. Petter Platou	-Production	-	U	
17	0.00	0.0000	0.0000	0	5.75	3. Kevin Hunter Nielsen	-Production	-	U	friendlyfire

Stage: 5. St. 5

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	160.0000	5.8570	136	23.22	38. Kjell Idar Logan	-Production	-	D	perulv
2	99.13	158.6051	5.8060	152	26.18	54. Nils Arne Langeland	-Production	-	U	
3	90.86	145.3711	5.3215	144	27.06	19. Martin Hjelmerud	-Production	-	U	helmet
4	85.31	136.4900	4.9964	139	27.82	36. Raymond Atterås	-Production	-	U	rayray
5	80.71	129.1345	4.7271	136	28.77	39. Snorre Øien	-Production	S	U	shybert
6	75.79	121.2699	4.4393	133	29.96	59. Petter Platou	-Production	-	U	
7	71.30	114.0791	4.1760	93	22.27	7. Simen Ludvigsen	-Production	-	U	
8	63.25	101.2021	3.7046	146	39.41	13. Per Ludvigsen	-Production	S	U	sfiH
9	63.24	101.1765	3.7037	156	42.12	30. Ole-Martin Kristoffersen	-Production	-	D	chillywilly
10	60.73	97.1615	3.5567	121	34.02	14. Hugo Zimmermann	-Production	-	C	iceman73
11	57.64	92.2289	3.3762	134	39.69	50. Kristoffer Kleiv	-Production	-	U	
12	56.28	90.0418	3.2961	121	36.71	23. Sjur Stokke	-Production	SS	U	7rlog
13	53.80	86.0766	3.1510	129	40.94	43. Thomas Sirland	-Production	-	D	
14	53.76	86.0210	3.1489	144	45.73	58. Kurt Tore Flaten	-Production	-	U	
15	37.79	60.4666	2.2135	73	32.98	3. Kevin Hunter Nielsen	-Production	-	U	friendlyfire
16	36.18	57.8903	2.1192	106	50.02	55. Ove Ørjansen	-Production	-	U	
17	28.98	46.3687	1.6974	93	54.79	32. Andreas Bjørnseth	-Production	-	U	

PRODUCTION OPTICS Results per stage

Stage: 1. st.1

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	40.0000	6.1017	36	5.90	12. Geir Kvam	-Production Optics	-	U	czy

Stage: 2. St. 2

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	90.0000	3.7376	49	13.11	12. Geir Kvam	-Production Optics	-	U	czy

Stage: 3. St. 3

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	100.0000	3.9778	86	21.62	12. Geir Kvam	-Production Optics	-	U	czy

Stage: 4. St.4

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	40.0000	6.5934	36	5.46	12. Geir Kvam	-Production Optics	-	U	czy

Stage: 5. St. 5

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	160.0000	5.6567	146	25.81	12. Geir Kvam	-Production Optics	-	U	czy

PRODUCTION OPTICS LIGHT Results per stage

Stage: 1. st.1

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	40.0000	8.5586	38	4.44	31. Rune Westerby	-Production Optics Light	S	D	ekin

Stage: 2. St. 2

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	90.0000	5.8537	84	14.35	31. Rune Westerby	-Production Optics Light	S	D	ekin

Stage: 3. St. 3

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	100.0000	3.6261	90	24.82	31. Rune Westerby	-Production Optics Light	S	D	ekin

Stage: 4. St.4

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	40.0000	6.0423	40	6.62	31. Rune Westerby	-Production Optics Light	S	D	ekin

Stage: 5. St. 5

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	160.0000	3.5803	144	40.22	31. Rune Westerby	-Production Optics Light	S	D	ekin