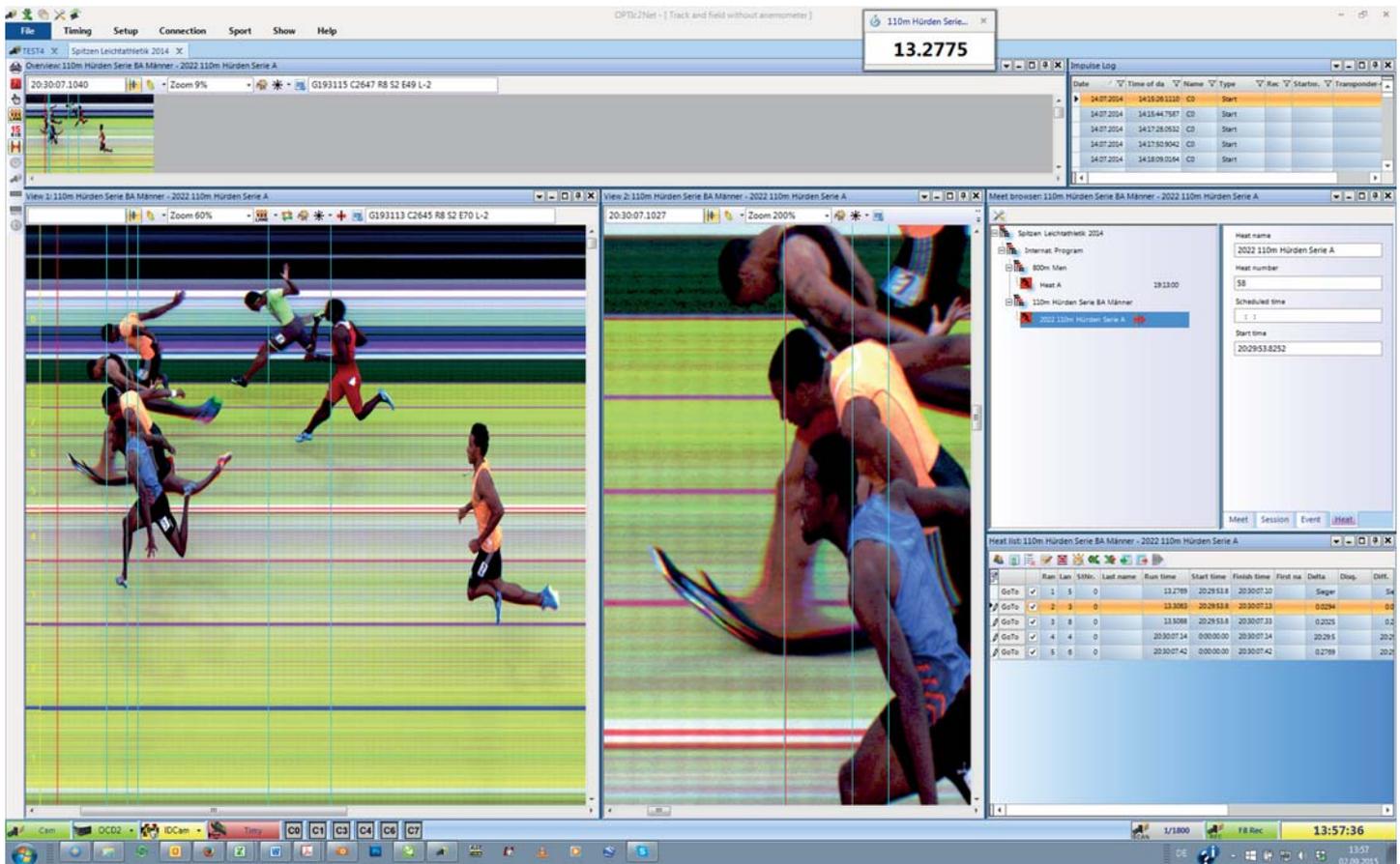


ALGE-TIMING offers with the OPTIc2 a photofinish camera that features the highest standard. The recording time of the OPTIc2 is only limited by the size of the hard disk of the PC. This is possible because the IEEE1394 connection guarantees a real time data transmission from the camera to the PC. An Ethernet or USB connection cannot guarantee a data transmission in real time.

With the software OPTIc2NET it is possible to use all advantages of the OPTIc2 photofinish system. OPTIc2NET is programmed in the modern program language called .NET which allows the operator to use a flexible screen layout, which means he can build the layout according to his needs.

The OPTIc2NET software allows to connect and operate all ALGE-TIMING photofinish accessories like Distribution Box OCD2, remote control zoom lens, remote gear head and IDCam (high resolution webcam).



Highlights of the OPTIc2NET:

- Modern software with an identical layout like Microsoft Windows and docking windows
- System works in time of day and all time impulses are stored in system
- If a race is started and the operator was not ready he can retrieve the start time at any time from the impulse list
- Several windows for the evaluation of the picture are available: Overview, Evaluation, Zoom, Preview
- Selection of recording mode: motion detection, photocell detection, manual detection
- Secure recording mode using photocell and motion detection – time shown on display board is used from photocell
- Fast evaluation with lane, ID-number (bib) or manually
- Online import of times from transponder systems (optional software package)
- Optional IDCam (high resolution webcam) can be linked with OPTIc2NET software
- Sport specific adjustments
- Layout of software surface can be adjusted and stored
- Layout of result list header can be adjusted and stored
- Microsoft Excel import and export feature for competitor lists
- Import and export features for most meet management programs

Synchronization of the System:

It is possible to synchronize the OPTIc2 camera with the PC or other timing devices.

Timing:

Once the system is started all timing impulses are stored in an impulse list. Each impulse is marked with date, time of day, timing channel, type of impulse (e.g. start) image and ID-number.

Never Miss a Start Impulse again:

The fact that all timing impulses are stored allows the operator to correct times. This feature is very important for the start. At the start it can happen that the starter does not take care and starts a race without the approval of the timing operator. In this case, the start impulse is stored in the impulse list and the operator can use the time from the timing list as official start time. This is possible during the race.

Datum	Tagesselt	Name	Typ	Rec	Starten	Transponder-Code
24.07.2015	18:40:57.3387	C1	Start			
24.07.2015	18:44:05.2485	VC1	Virtual stop	yes		
24.07.2015	18:44:16.4219	C1	Stop	yes		
24.07.2015	18:44:16.6262	C1	Stop	yes		
24.07.2015	18:44:16.6362	VC1	Virtual stop	yes		
24.07.2015	18:44:22.9394	VC1	Virtual stop	yes		
24.07.2015	18:44:21.4885	C1	Stop	no		
24.07.2015	18:44:33.1724	C1	Stop	no		
24.07.2015	18:44:42.5262	C1	Stop	no		

Recording of Photofinish Pictures:

Recording the finish arrival is possible in several ways. The system is built that it always records the last couple of seconds. The operator can adjust an additional recording time gap at the start and end of the recording impulse.

Manual Recording:

When pressing the key <F8> of the PC-keyboard the recording is started manually. It does not matter if you have a race prepared or not, when the system is running it records the finish arrival with time of day. Another possibility for manual recording is a push button that you connect with the system.

Motion Detection Recording:

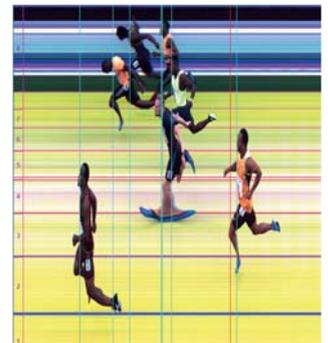
The motion detection works with changes of the picture content of each recorded photofinish line. The camera compares the pixels from recording line to recording line and if there are changes in the pixels it starts to record.

Photocell Recording:

The photocell impulse can be used to record the picture. Here it is important to have the possibility to adjust the time gap before and after the impulse in order to get the complete picture of the competitor. Photocell recording can be combined with motion detection so in case one system does not work the other will take over (double safety).

Transponder Recording:

The transponder impulse can be used to record the picture. Here it is important to have the possibility to adjust the time gap before and after the impulse in order to get the complete picture of the competitor. This function is always used in combination with the motion detection.

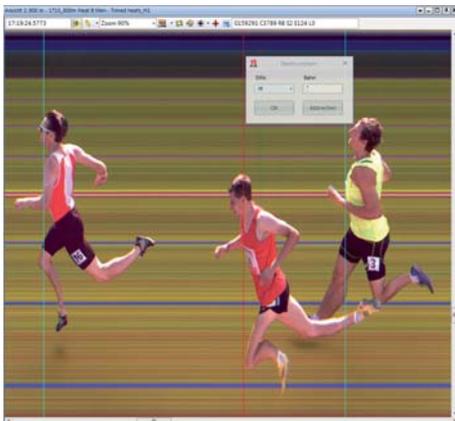


Evaluation of Photofinish Pictures:

With the OPTIcNET software you have several ways to evaluate the recorded pictures. It does not matter if the competitors arrive in lanes or in a big field. You always find an easy way to analyze the result.

Evaluation by Lane:

If races are executed in lanes (e.g. athletics sprint races), then use this result method. The lane setup is shown in the picture as an overlay and can be adjusted with the mouse. For the evaluation select the correct position for a racer (more the time cursor horizontally to the correct time and vertically to the correct lane). Move the time to the result list by clicking the right mouse button.



Evaluation for Mass Finish Arrival:

The ID-numbers of the competitors are used for the identification of the results. For the evaluation move the time cursor horizontally to the correct time and click the right mouse button. A field appears that allows you to input the ID-number (and class) of the competitor.

Evaluation with a Transponder System:

An optional software from ALGE-TIMING can read the data of the most different transponder systems. A data string of the transponder system automatically produces a photofinish picture. A translation table replaces the transponder number with the ID-number (bib) of the competitor and paint a dashed line (color adjustable) in the photofinish picture. This allows the operator to issue an immediate draft result list. In the photofinish picture it is possible to correct transponder times and take the transponder results as official times.

Evaluation with the help of the IDCam:

The ALGE-TIMING IDCam is a high resolution webcam (2048 x 1536 pixels) and can be controlled from the OPTIc2NET software. The program of the IDCam is installed on the same PC as the OPTIc2NET software or on a separate PC that is connected by Ethernet. A click on a photofinish picture automatically shows the corresponding picture of the IDCam. With the keyboard it is possible to control the IDCam picture from the OPTIc2NET software (e.g. next picture and zoom).

Integrated Results Software:

The OPTIc2NET includes a universal and flexible results software to print start lists, results lists including the photofinish picture of a heat, or photofinish pictures. The data of the competitors can be imported e.g. from Excel or other meet manager systems. After evaluating the photofinish picture it is possible to print the results list. Many sports are supported like athletics, cycling, rowing, horse racing, greyhound races, short track races, cross county, etc.

- The headers of the list columns are selectable. The order of columns and column width are adjustable.
- It is possible to import sponsor logos in the header and/or footer.
- Two separate text fields allow the operator to insert a free text.
- Possibility to print the photofinish picture or important parts of the picture in the results list.
- Possibility to print the photofinish picture or important parts of the picture.
- Classes are possible in the results list (e.g. women and men with separate ranking).
- The data import from Excel is possible.
- The export of a list in pdf-format is possible.

Results List
Masters Cycling Classic
St. Johann im Tirol
Road / Strasse

Date: 29.08.2015
Start time: 13:35:00

Location: St. Johann im Tirol Distance: 130000
Organizer: Radunion Radweltpokal Actual start time: 13:36:39
Session name: Road Race
Number: 0.0.1

Rank	BIB	Code	Name	Nation	Time	Av. Speed
Seniors III Men						
1	126	GER19740527	WEBER JAN	GER	2:51:01.29	45.61 [km/h]
2	143	ITA19710309	MAGGIOLI ROBERTO	ITA	--	45.61 [km/h]
3	145	ITA19710126	ZANCHI MARCO	ITA	4:18.49	44.49 [km/h]
4	139	IRL19750421	CHRISTIAN JOE	IRL	4:33.01	44.43 [km/h]
5	137	ITA19710927	FRESCHI ALESSIO	ITA	5:33.13	44.17 [km/h]
6	133	NED19730222	EPPING ALLARD	NED	5:45.89	44.12 [km/h]
7	153	AUT19750509	GROLLER RICHARD PETER	AUT	--	44.12 [km/h]
8	146	POL19720303	PIYZIK PAWEŁ KAZIMIERZ	POL	--	44.12 [km/h]
9	123	GER19751128	JAHN MARIO	GER	--	44.12 [km/h]
10	147	SUI19720506	MONBARON PASCAL	SUI	--	44.12 [km/h]
11	142	CZE19741011	BOESE MARTIN	CZE	--	44.12 [km/h]
12	149	GER19750523	RAIEN NEJAD MOJTABA	GER	--	44.12 [km/h]
13	128	GBR19710609	MORRIS SIMON	GBR	--	44.12 [km/h]
14	135	POL19740815	LUKASZ ZAKIELARZ	POL	5:55.86	44.08 [km/h]
15	151	SUI19720819	JENAL ROBERTO	SUI	--	44.08 [km/h]
130	NED19710913	VAN DER WERF THEO	NED	DNS	--	--
148	ITA19731130	CLAUDIUS CRAZDO	ITA	Disq.	--	--
Seniors III Men						
1	24	BEL19760824	MERCKEN KENNETH	BEL	2:52:36.52	45.19 [km/h]
2	22	POL19770905	CHADZYNSKI DANIEL	POL	14.15	45.13 [km/h]
3	21	ITA19800405	SOSNOVSHCHENKO DENIS	ITA	1:44.98	44.74 [km/h]
4	4	POL19800407	SWIDERSKI ADRIAN	POL	--	44.74 [km/h]
5	5	FRA19800908	MARTZ FABRICE	FRA	3:05.69	44.39 [km/h]
6	23	POL19770619	RUBIN SEBASTIAN	POL	--	44.39 [km/h]
7	17	AUT19760715	TAUCHER JÖRG	AUT	3:50.67	44.20 [km/h]
8	15	GER19800906	VOEGDING DENNIS	GER	--	44.20 [km/h]
9	16	AUT19800208	HALBMAJY HANNES	AUT	--	44.20 [km/h]
10	19	ITA19780822	LUCHETTA VITTORIO	ITA	3:56.73	44.18 [km/h]
11	10	SUI19790928	LANG GREGOR	SUI	5:10.14	43.87 [km/h]
12	18	BH19790119	ZEC DALBOR	BH	14:14.33	41.79 [km/h]
13	3	USA19850913	LEA DYD	USA	32:20.98	38.06 [km/h]
12	12	POL19840909	JONROZIC MATEUSZ	POL	DNF	--

Cominque: #148 disqualified because of leaving the race track - ÖRV §12.4.134
 Entries: 31
 Finished: 28
 Nations: 13
 DNS: 1
 DNF: 1
 DSQ: 1
 Weather: Sunny, 25°C

Timing: ALGE-TIMING OPTIc2
 Data: ALGE-TIMING OPTIc2.NET
 2015-09-07 / 16:08
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Result List for Cycling

Results list
Spitzen Leichtathletik 2014
Luzern
800m Men Heat A

Date: 15.07.2014
Start time: 19:13:00

Location: Allmend Luzern Distance: 800 m
Organizer: Spitzen Leichtathletik Luzern Actual start time: 19:13:10.010
Session name: Internat. Program
Number: 2.15.1

Rank	Bib	Lane	Name	Run time	Difference	Disq.
1	404	10	ROWE Alexander	1:45.74	Winner	
2	208	4	BALLA Mubareb	1:45.79	0.05	
3	416	8	RISELEY Jeffrey	1:46.23	0.49	
4	362	7	MUTAI Jeremiah	1:46.28	0.54	
5	364	11	TORRANCE David	1:46.72	0.97	
6	149	5	SANTACRUZ Hugo	1:46.95	1.20	
7	434	12	REPOK Jozsef	1:47.07	1.32	
8	383	1	JAMES Jamaal	1:47.20	1.45	
9	148	13	HOCHSTRASSER Jan	1:47.95	2.20	
10	147	9	CHRISTEN Roland	1:50.38	4.63	
11	152	2	CURTI Michael	1:51.31	5.56	
12	397	3	KAWAMOTO Sho	1:51.66	5.91	
354	6	BENITZ Timo				DNS
350	14	SCHERRER Matthew				DNF

Timing: ALGE-TIMING OPTIc2
 Data: ALGE-TIMING OPTIc2.NET
 2014-11-25 / 12:26
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Result List for Track and Field

Data Import and Export:

OPTIc2NET can be used to generate results lists at different sports events. For more complex lists, like for track and field meetings, but also if you prefer to use meet management software, it has several import and export functions. Data exchange is e.g. possible with XML, Excel, Lynx data and OPTIc data.

Export of Photofinish Picture for Publication:

With one mouse click you can export the present photofinish picture that you see on your screen as a bitmap. This picture might be used for publication (press or internet) or to insert in the TV production.



Examples of Pictures from the Photofinish OPTIc2nNET

