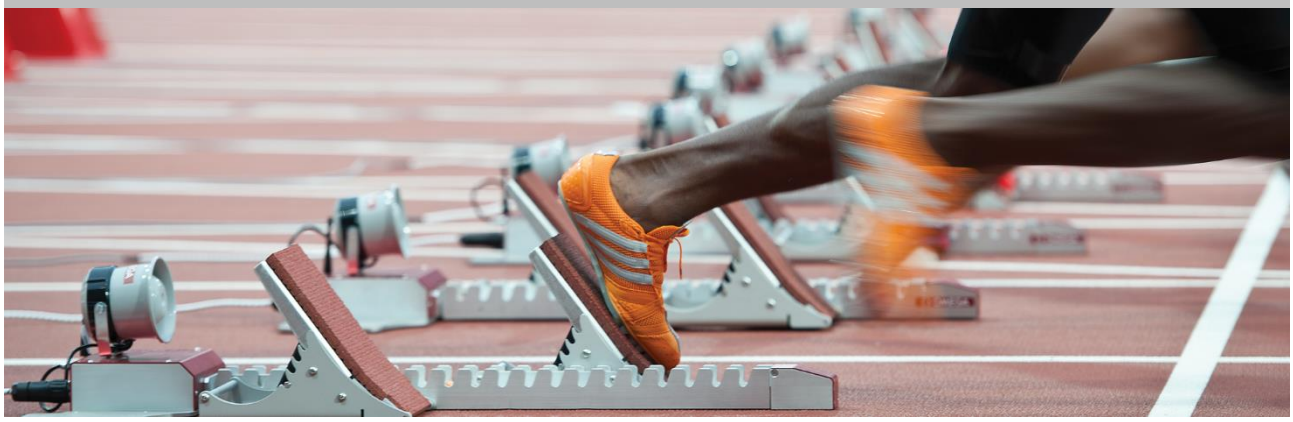

ATHLETICS SWITCHER - INDOOR

USER'S MANUAL

3459.502.02 l Version 1.0 l

Swiss Timing LTD
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Phone +41 32 488 36 11
info@swisstiming.com
www.swisstiming.com

Caution and safety precautions

- Never use any other charger than the supplied or a type approved by Swiss Timing. This could destroy the battery, cause damage to unit, and possible cause personal injury due to fire or/and electrical shock.
- Never bypass a power cord ground lead by breaking off the ground pin, or by using inappropriate extension cords or adapters.
- Never plug a power cord into the AC power source until you have made sure that all installation, cabling and power levels, are proper, and that the applicable procedures in this manual have been followed.
- Protect the equipment against splashing, rain and excessive sun rays.
- Never use the device if it is damaged or insecure.
- Verify the selection of the power distribution.
- Verify that the voltage quoted on the rating plate is the same as your voltage. Connect the appliance only to power sockets with protective earth. The use of incorrect connection voids warranty.
- This program may be modified at any time without prior notification.
- Do not open the case; there is nothing that needs servicing inside it. Nevertheless, if the case must be opened, you must call for some qualified personnel. The power supply cable must be disconnected before opening the case.
- During the transport of all Swiss Timing equipment delivered with a reusable carry case, the said case should be used at all times. This is imperative to limit the damage, such as shocks or vibration that can be caused to the units during transport.
- The same cases should also be used when returning equipment to Swiss Timing for repair. Swiss Timing reserves the right to refuse all guarantees if this condition is not fulfilled.
- If the installation includes a horn, be sure to maintain a sufficient security distance from the public.

Documentation Updates

Swiss Timing SA reserves the right to make improvements in the products described in this documentation at any time without prior notice. Furthermore, Swiss Timing SA reserves the right to revise this documentation in its content at any time and without any obligation to notify any person or organization of such revision.

Disclaimer

The information provided in this documentation has been obtained from sources believed to be reliable, accurate and current. However, Swiss Timing SA makes no representation or warranty, express or implied, with respect, but not limited to, the completeness, accuracy, correctness and actuality of the content of this documentation. Swiss Timing SA specifically disclaims any implied warranty of merchantability, quality and/or fitness for any particular purpose. Swiss Timing SA shall not be liable for errors contained in this documentation or for incidental or consequential damages in connection with the supply, performance or use of this documentation.

Environment

This symbol indicates that this product should not be disposed with household waste. It has to be returned to a local authorized collection system. By following this procedure you will contribute to the protection of the environment and human health. The recycling of the materials will help to conserve natural resources.

Copyright

TABLE OF CONTENTS

1 INTRODUCTION

The **A**thletics **S**witcher **I**ndoor (**ASI**) is a device for advanced competition level distributing input and output data of athletics devices and accessories.
110-240 VAC/15VDC.

It allows to connect and switch 2 photofinish (Primary & Secondary) cameras and laptops in the control room for 60m sprint and 2 photofinish (Primary & Secondary) cameras and laptops for 200m track in the control room or infield with:

False start system, timing scoreboards, finish photocells at 60m and 200m, intermediate photocells at 1500m, headset, additional RS422 output. Power supply: 10-15VDC, external PSU 110-240 VAC/15VDC.

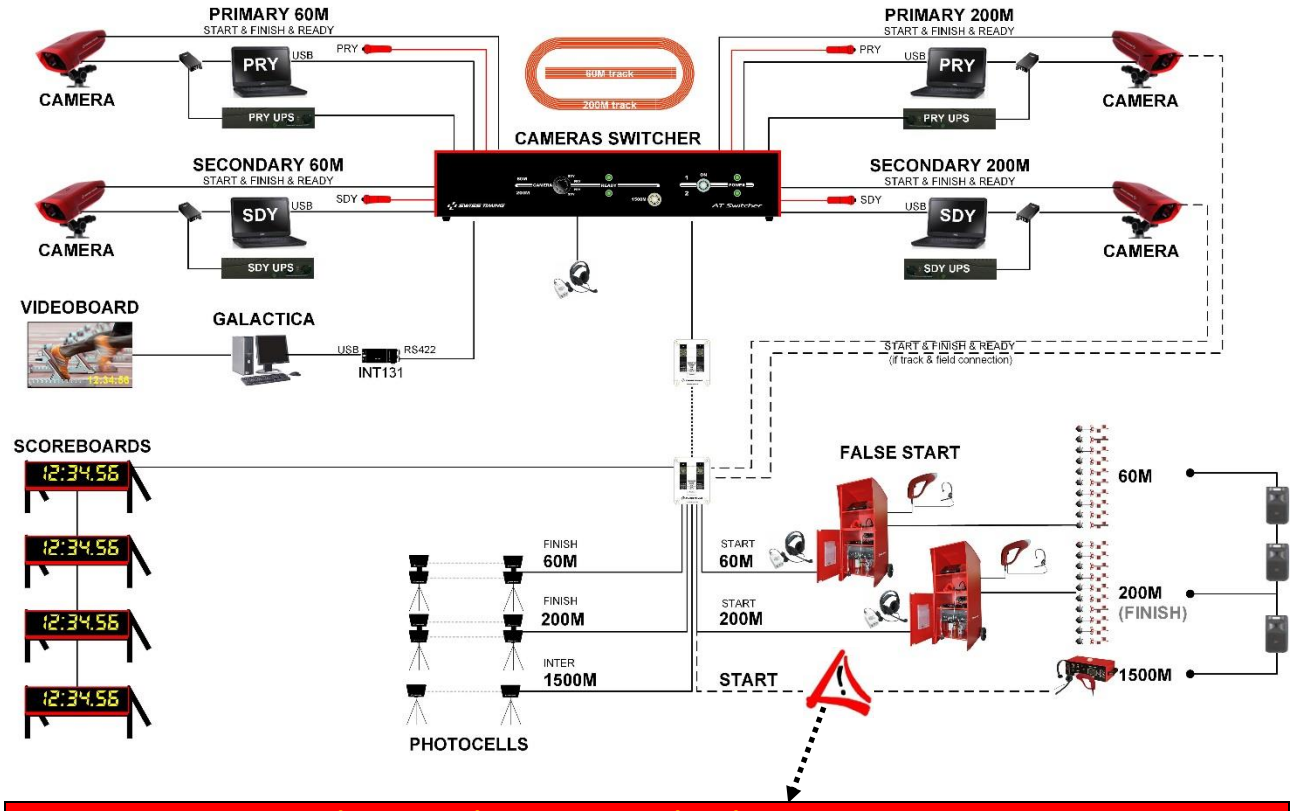
- Possibility to connect 4 OSV cameras
- Data output can be switched between PRY and SDY cameras (60M and 200M)
- Wind speed and false start ASC data dispatched between PRY and SDY cameras (60M and 200M)
- OSV ready monitoring via 2 LEDs on Switcher Unit
- One interface with many functions

1.1 Material delivered

- 1x ATH Switcher Indoor
- 1x UTG cable 10m. (ATH Switcher to fix cabling box)
- 2x DIN cable 10m. (ATH Switcher to PRY & SDY cameras)
- 1x External power supply 100-240VAC / 15VDC
- 3x Power cable (EU / UK / US)

2 CONNECTIONS

2.1 Connections overview



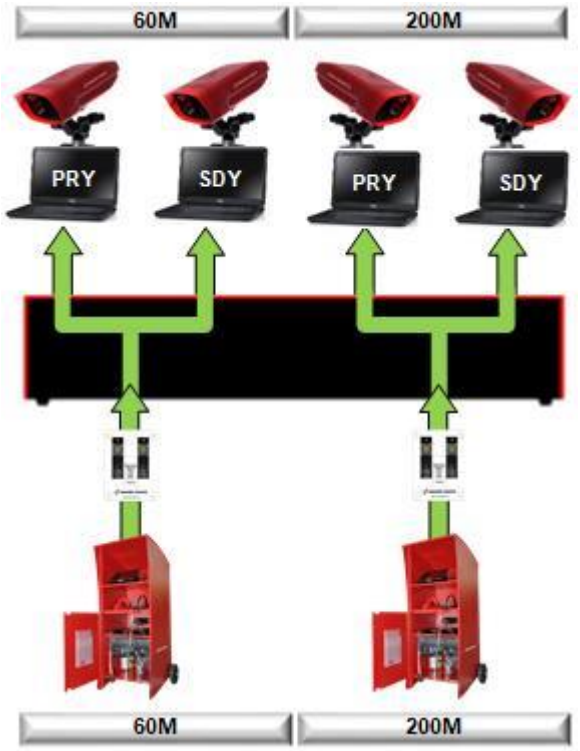
Only one Start (StartTime) or False start (ASC) can be connected on the track.
All unused start systems must be disconnected.
You may only reconnect start system if necessary.

2.2 Front view

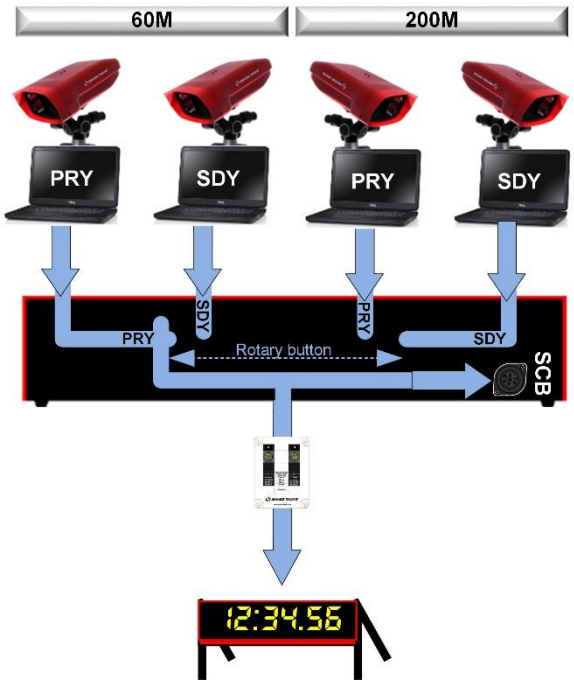
2.3 Rear View

2.4 Distribution of RS422 data

ASC3 False start

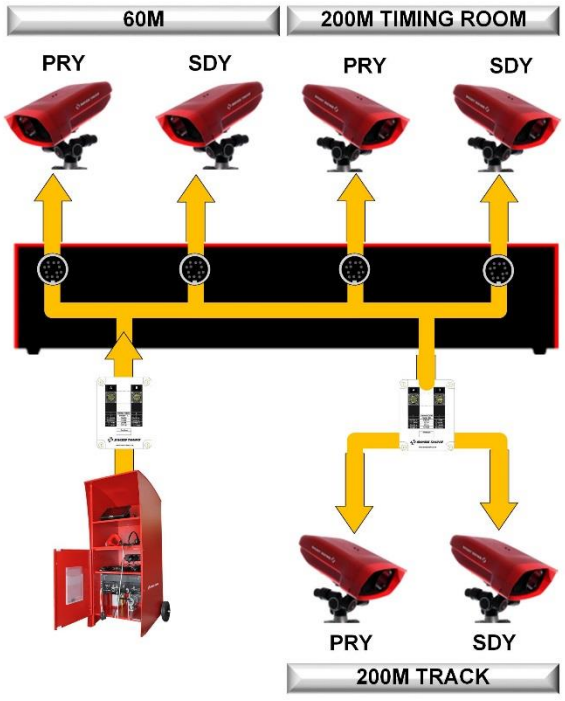


Scoreboard

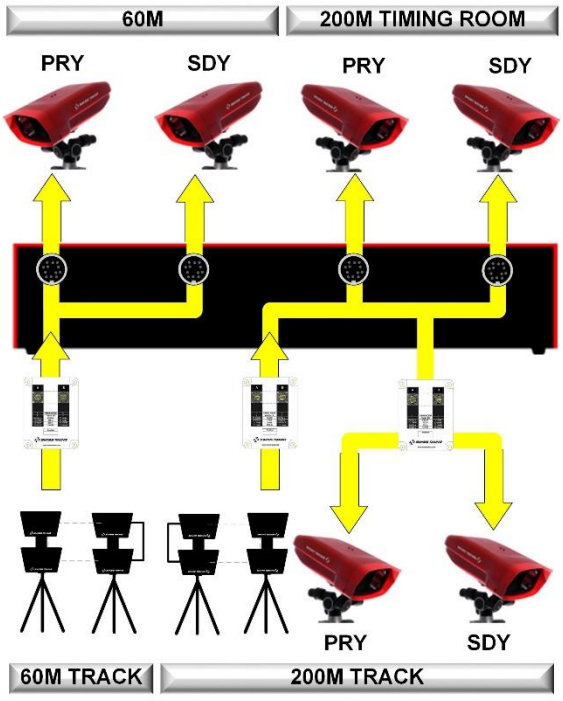


2.5 Distribution of START & FINISH contacts

START



FINISH

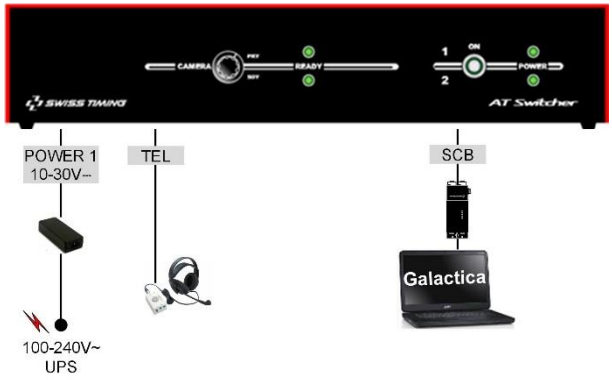


3 CABLING

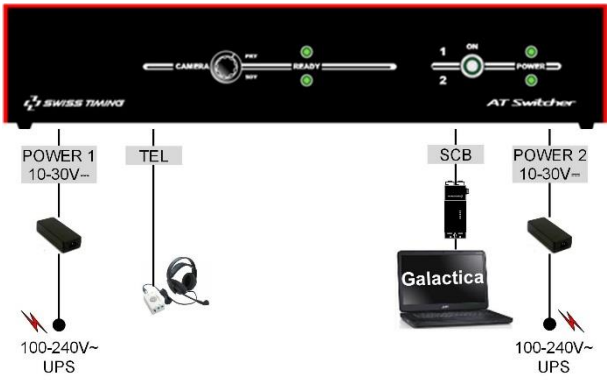
There are several possible cabling solutions and you will find some examples below.

3.1 Timing Room connections

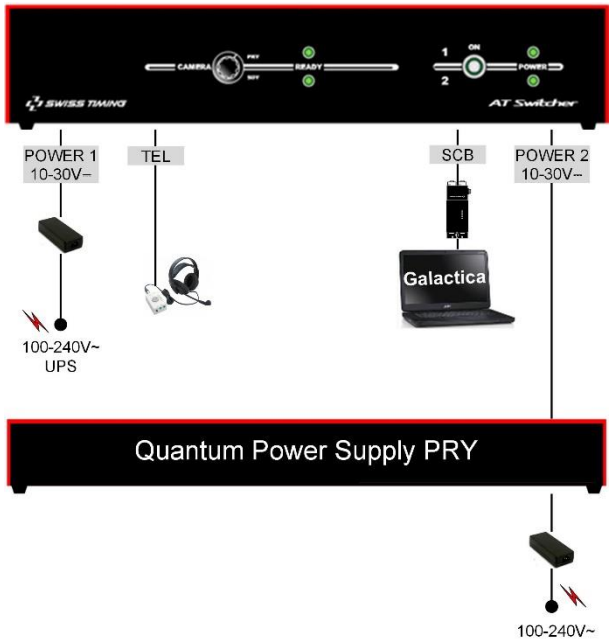
3.1.1 Single power supply



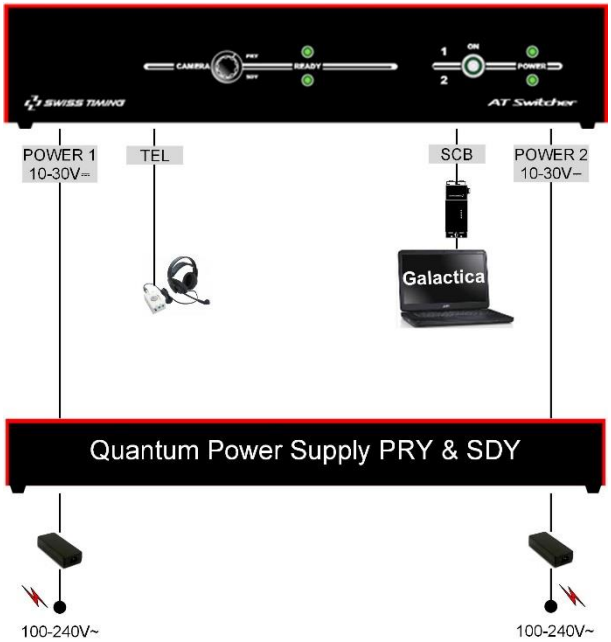
3.1.2 Double power supply



3.1.3 Single power supply and external battery

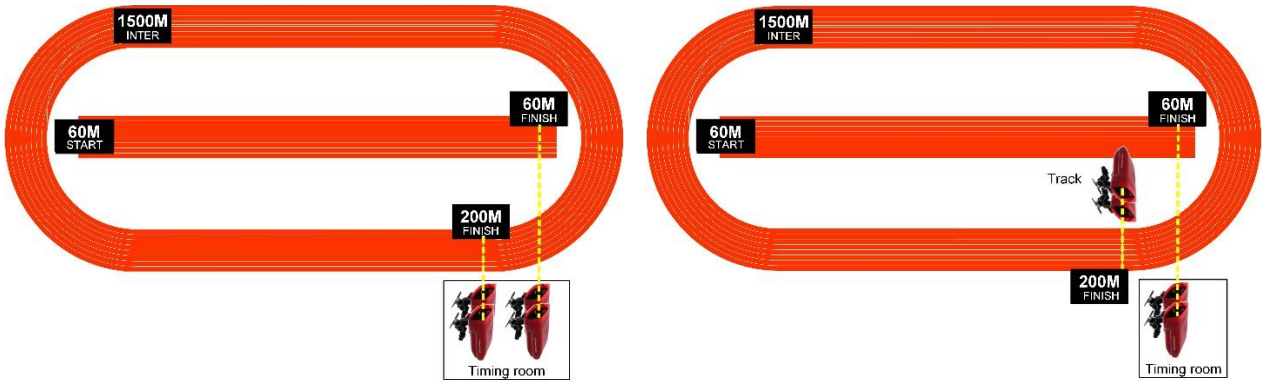


3.1.4 Double external batteries



3.2 Cameras connections

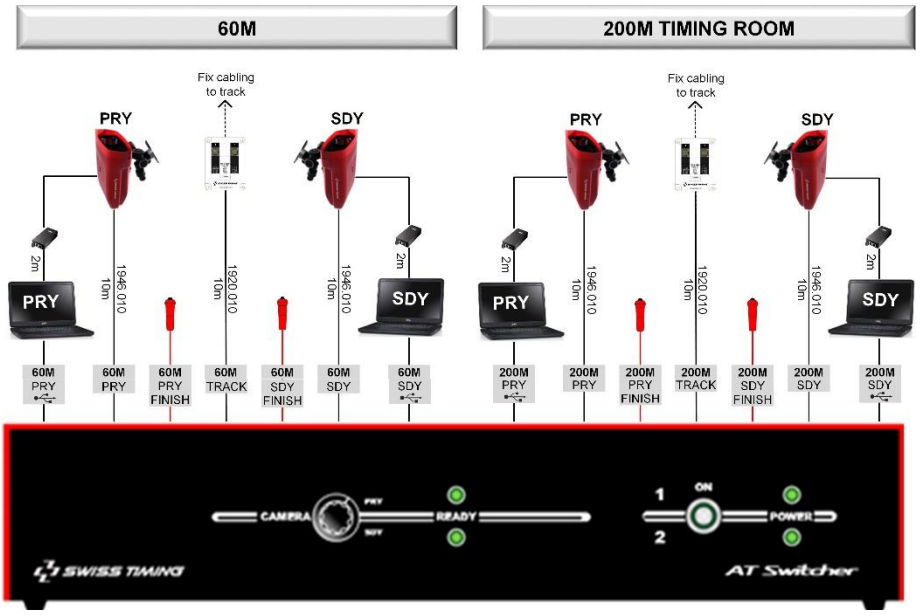
All cameras can be positioned in the timing room or 2 in timing room & 2 on the track :



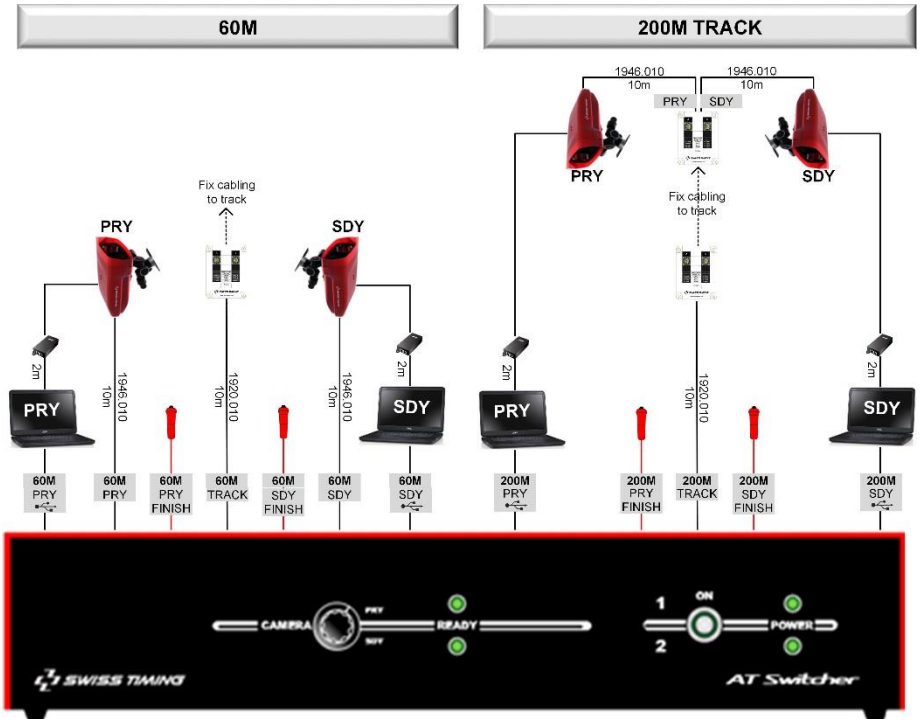
The selection of the PRY-200M and SDY-200M switch CELL MAN. is valid for Track and Timing room cameras.

If CELL is selected, both PRY or SDY cameras will record when Finish photocell is activated.
If MAN is selected, both PRY or SDY cameras will record when pushbutton is activated.

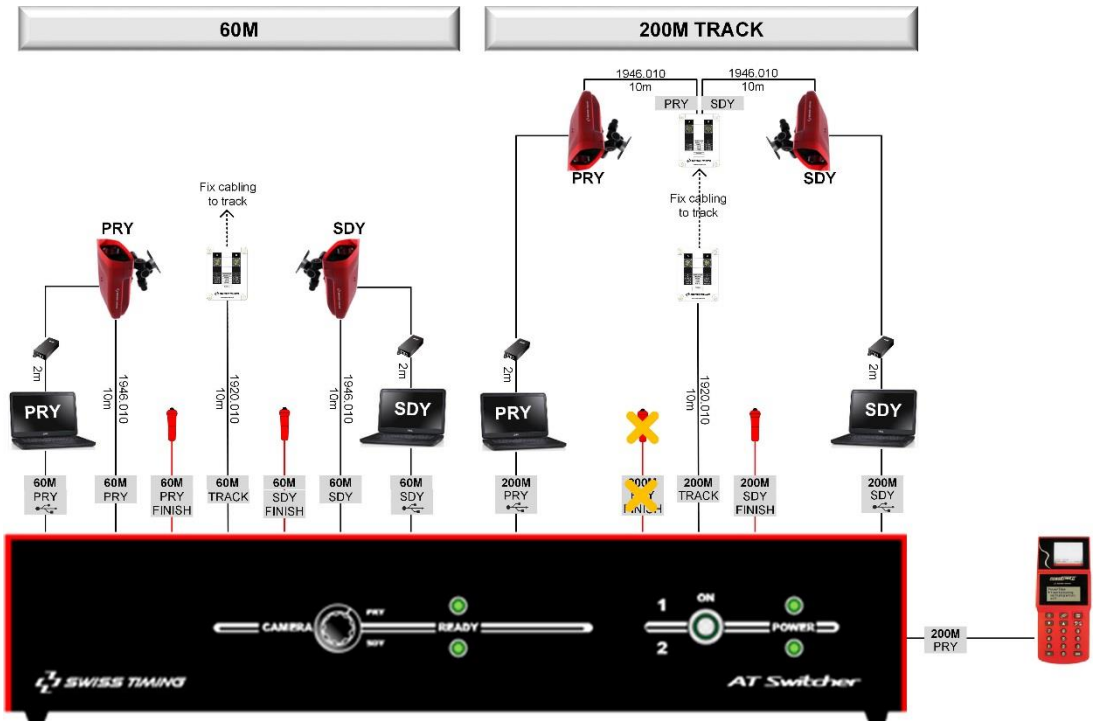
3.2.1 Cameras PRY-60M, SDY-60M, PRY-200M- TimingRoom, SDY-200M-TimingRoom



3.2.2 Cameras PRY-60M, SDY-60M, PRY-200M-Track, SDY-200M-Track



3.2.3 Cameras PRY-60M, SDY-60M, PRY-200M-Track, SDY-200M-Track, Timer

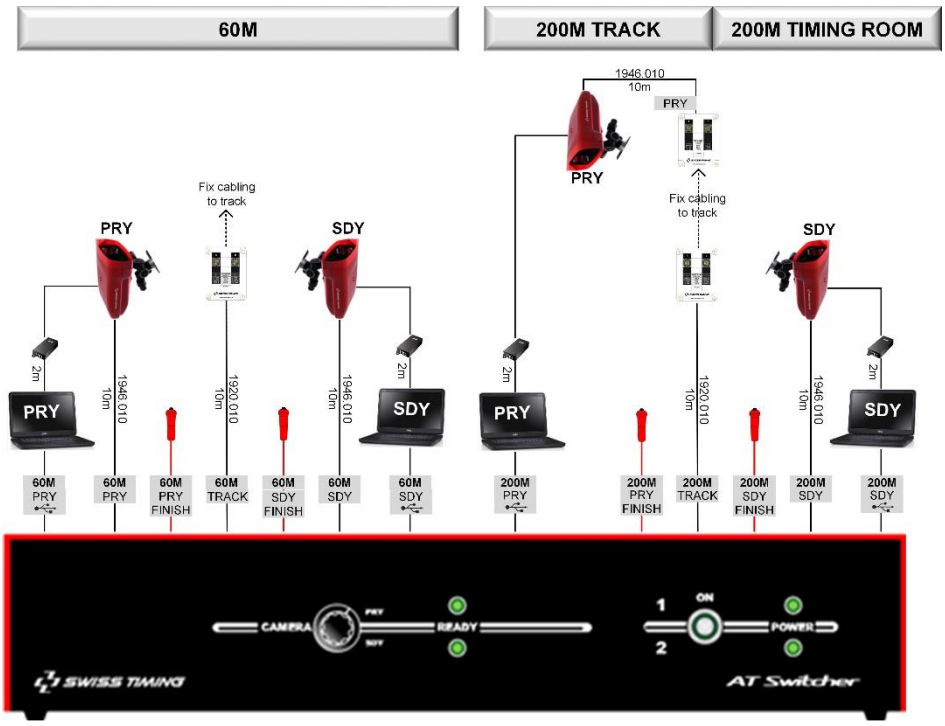


An additional timer can be connected to the START and FINISH contacts trough the 200M PRY or SDY camera connector. A specific cable is needed according to the timer model.

In this configuration, select the INFIELD switch 

in position CELL. Do not use pushbutton in position MAN.

3.2.4 Cameras PRY-60M, SDY-60M, PRY-200M-Track, SDY-200M-TimingRoom



3.3 Rear panel description

3.3.1 Power 10-30VDC

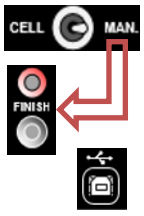
There are 2 DC power inputs, the second one is used as Backup. You can connect:

- 1 external power supply or 1 external battery 12VDC (POWER 1 or POWER 2)
- 2 external power supplies (POWER 1 and POWER 2)
- 1 external power supply and 1 external battery 12VDC (POWER 1 and POWER 2)
- 2 external batteries 12VDC (POWER 1 and POWER 2)
-

If only power supplies are connected to the ASO, add an Uninterruptable Power Supply (UPS).

3.3.2 Cameras

4 cameras can be connected to the ASO unit.
Primary-60M & Secondary-60M cameras are positioned in the timing room Primary-200M & Secondary-200M cameras could be installed in the track or in the timing room.
.

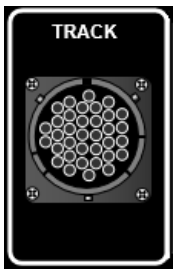


Select CELL if recording is started by FINISH photocell or MAN if started by a pushbutton.
The pushbutton is connected in the two bananas plugs.

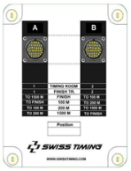
USB computer connection.

Myria connection (START & FINISH)
To connect OSV STAR camera, please use adapter cable 3503.628.

3.3.3 Track



Connect the ASO to the track with the cable 1920.010.

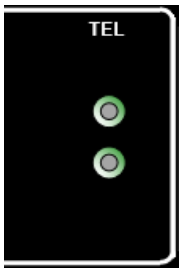


3.3.4 Galactica

+Connect the Galactica computer (INT131) with the cable 1871.xxx (xxx= cable length in meters / 010, 025).

Only the running time is transferred (same information as track scoreboards).

3.3.5 Telephone

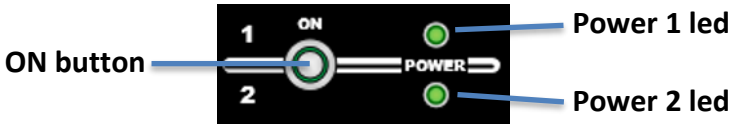


Connect the telephone unit to the track with the cable 1878.xxx (xxx= cable length in meters / 010, 050,100).

4 OPERATING

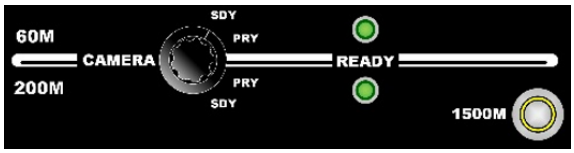
4.1 Power on

When cabling is done as specified in previous chapters, switch on the unit by pressing the ON button. The POWER leds will light up if power is connected.



4.2 Primary & Secondary Selection

Before the first race, select the switch in position Primary-60M or Primary-200M (PRY). When a problem appears during the event, select the switch in position Secondary-60/200M (SDY). Data will be immediately switched.



When camera Primary-60M or Secondary 60M is READY, the corresponding led will light up.
When camera Primary-200M or Secondary 200M is READY, the corresponding led will light up.

4.3 Intermediate and Finish time

4.3.1 Intermediate time 1500M

When the first racer arrives near the intermediate photocell, press and hold the intermediate button (1500M) until the racer crosses the photocell, then release the button.

4.3.2 Finish time

The 

switch of the camera managing the running time should be selected on CELL.

5 USB CONNECTION

5.1 Install drivers

1. Power on your computer and boot to Windows.
2. Put the driver CD in the CD-ROM then run the PL-2303 driver (See *Fig.1* and *2*)

Fig. 1

Fig. 2

3. Connect Athletics Switcher PRY or SDY with your computer by USB cable.
4. Windows will auto detect four "new USB devices" and start **InstallShield** Wizard (See *Fig.3*)

Fig. 3

5. After driver installation, please follow the below process to verify whether the device was properly installed. Click Start – Setting -- Control panel -- double click system icon – Hardware Device Manager -- Double click on ports (COM&LPT) (See *Fig. 4*).

Fig. 4

6. If the device has been correctly installed, you may see 4 ports new COM devices listing. This means Windows has assigned the device to the COM# port.

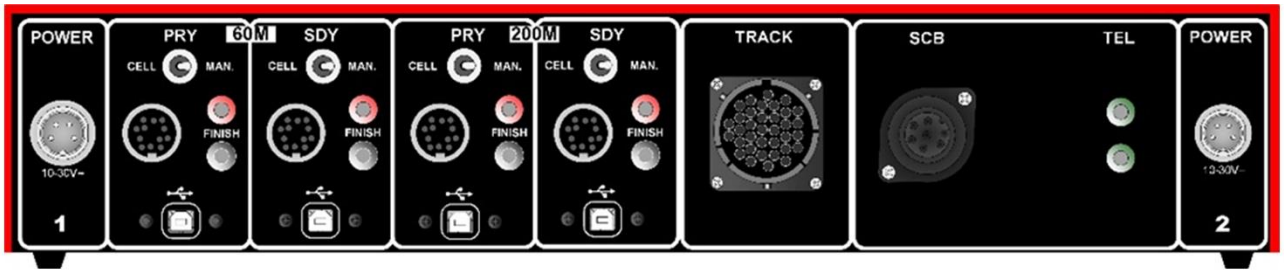
*There could be a difference in the port numbers of the Device Manager window, as the PL2303 driver will auto assign a COM number from your system.

1.2 Remove drivers

Use the **DRemover98_2k to remove INT131 driver.** Double click **DRemover98_2k.** If INT131 driver software has already been installed, the modify, repair or remove the program window will appear, then select “Remove” to clean INT131 driver completely.

It is necessary to update the driver when INT131 adds new features or functions. Use the **DRemover98_2k to remove old version INT131 driver.** Double click **DRemover98_2k.** If an older version of the INT131 driver software existed in the system, the modify, repair or remove the program window will appear, then select “Remove” to clean INT131 driver completely. Once the software has been removed, install the new software.

6 CONNECTORS DESCRIPTION



POWER 1 10-30VDC	
DC Input	
DIN 4pMT	
1	+10-30V
2	GND
3	
4	

PRY /SDY INFIELD	
Contacts	
DIN 12pFT	
A	
B	READY +
C	FINISH +
D	FINSH -
E	START +
F	START -
G	
H	
J	
K	
L	READY -
M	

SCB	
RS422	
Tuchel 7pFT	
1	POWER OUT +
2	
3	TX-
4	TX+
5	
6	
E	GND

POWER 2 10-30VDC	
DC Input	
DIN 4pMT	
1	+10-30V
2	GND
3	
4	

TRACK											
Contacts / RS422											
UTG 35pFT											
A	←	ASC.60M -	L	←	CELL.FINISH.200M +	X	→	PRY.200M.FINISH +	h	→	TEL Line a
B	←	ASC.60M +	M	←	CELL.FINISH.200M -	Y	→	PRY.200M.FINISH -	i		TEL Line b
C	←	ASC.200M -	N	→	SDY.200M.FINISH +	Z	←	PRY.200M.READY +	j		
D	←	ASC.200M +	P	→	SDY.200M.FINISH -	a	←	PRY.200M.READY -	k		
E	←	READY.200M +	R	←	SDY.200M.READY +	b	→	PRY.200M.START +	m		
F	←	READY.200M -	S	←	SDY.200M.READY -	c	→	PRY.200M.START -			
G	→	SCB RS422 +	T	→	SDY.200M.START +	d	→	READY.60M +			
H	→	SCB RS422 -	U	→	SDY.200M.START -	e	→	READY.60M -			
J	←	CELL.INTER.1500M +	V	←	CELL.FINISH.60M +	f	←	START +			
K	←	CELL.INTER.1500M -	W	←	CELL.FINISH.60M -	g	←	START -			

→	To TRACK
←	From TRACK

CELL	Photocell
PRY	Primary
SDY	Secondary
SCB	Scoreboard

7 TECHNICAL SPECIFICATIONS

7.1 Mechanical characteristics

Dimensions: ***Dimensions:*** ***Abmessungen:***	440 x 300 x 55 mm
Weight: ***Poids:*** ***Gewicht:***	4.5 kg
Protection: ***Protection:*** ***Schutzklasse:***	IP42 (indoor use)
Working temperature: ***Température de fonctionnement:*** ***Betriebstemperatur:***	0°C to 50° C
Temperature range storage: ***Température de stockage:*** ***Lagertemperatur:***	-30 to 85°C

7.2 Electrical characteristics

Power supply: ***Alimentation:*** ***Speisung:***	*External power supply :* 110 - 240 VAC / 15VDC Athletics Switcher : 10 - 30VDC
Power consumption: ***Consommation électrique:*** ***Stromverbrauch:***	Max. 90 VA
CE Standards:	CE

8 APPENDICE

8.1 Index figures

No table of figures entries found.

8.2 Version history

Version	Modifications since last version
1.0	Initial version

NOTES

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