ALGE TIMING

## THE SPORTS TIMING EXPERTS

Ski Jumping

The handling of ski jumping competitions requires the right technical equipment that is very unique. A system for speed measurement, a start display board D-SDA1S, a wind measuring system, judges terminals and a video width measuring system might be necessary depending on the importance of the event. Further ALGE-TIMING supplies also the connection boxes for all devices that are used all over the jumping hill for a fix cable installation.
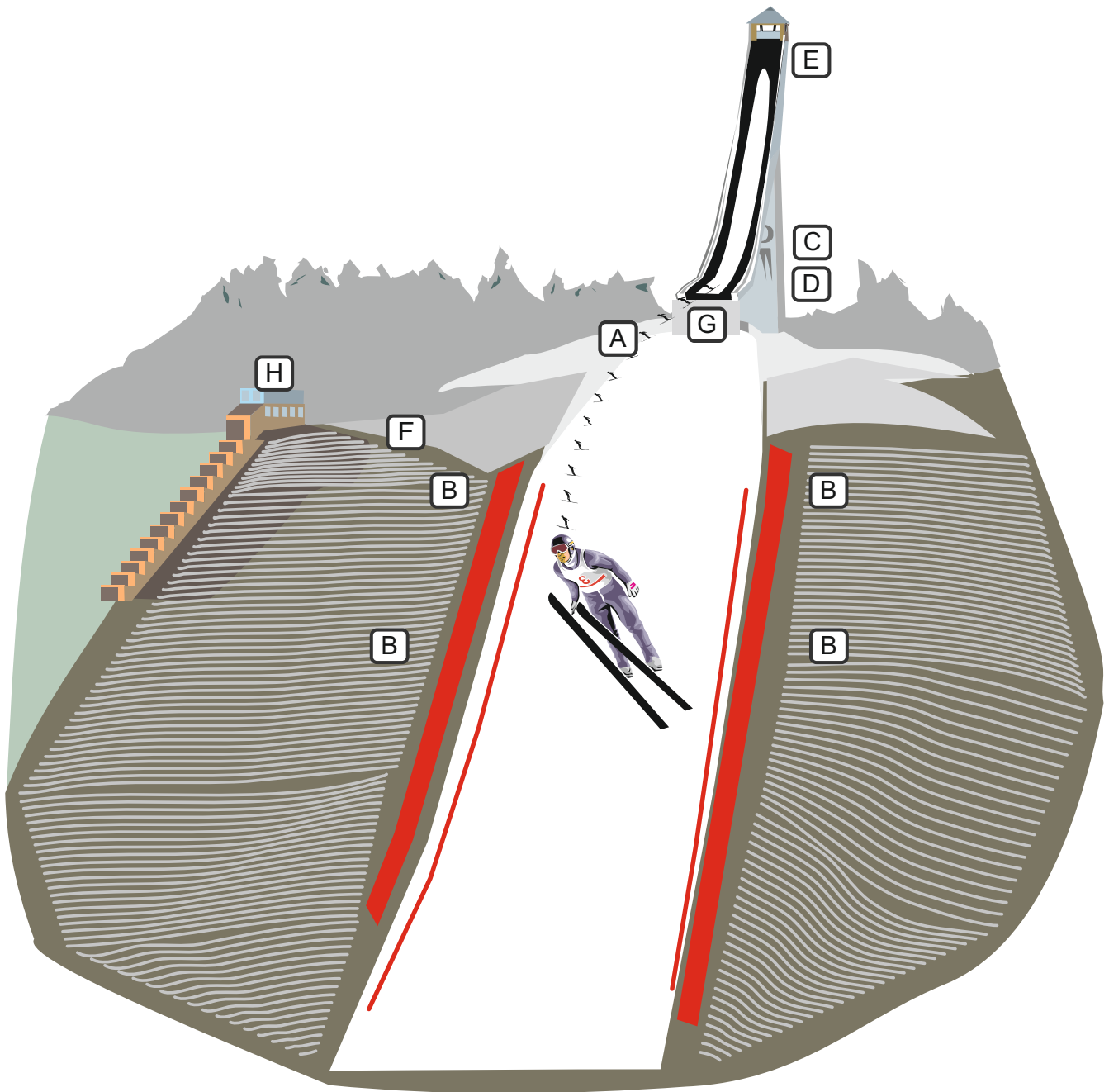
A . . . . SJB-Wind . . . . . . take off area . . . . distribution box for anemometer
B . . . . SJB-Wind . . . . . . landing area . . . . distribution box for anemometer
C . . . . SJB-Speed . . . . . take off area . . . . distribution box for speed- photocell 1
D . . . . SJB-Speed . . . . take off area . . . . distribution box for speed- photocell 2
E . . . . . SJB-SD . . . . tower (start area) . . . . distribution box for start display at take off
F . . . . . SJB-TD . . . . trainer sector . . . . distribution box for trainer display board
G . . . . SJD-Jump . . . . . . take off area . . . . jumping hill distribution box
H . . . . SJD-Cent . . . . . . judges tower . . . . central distribution box
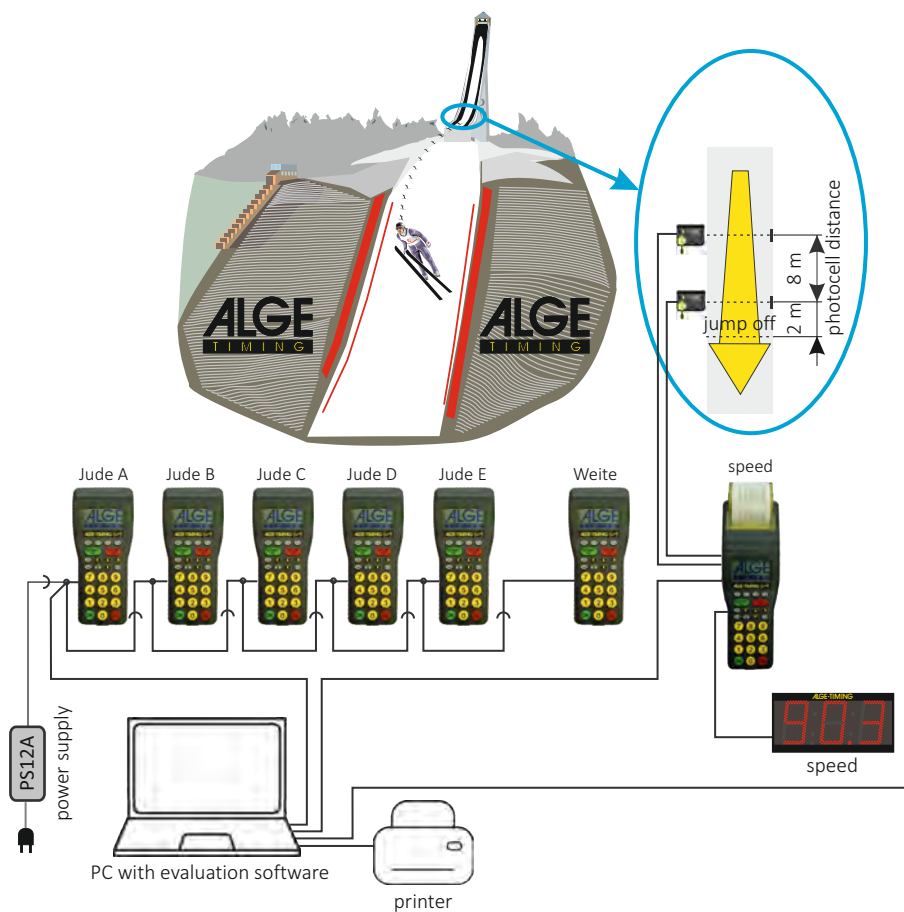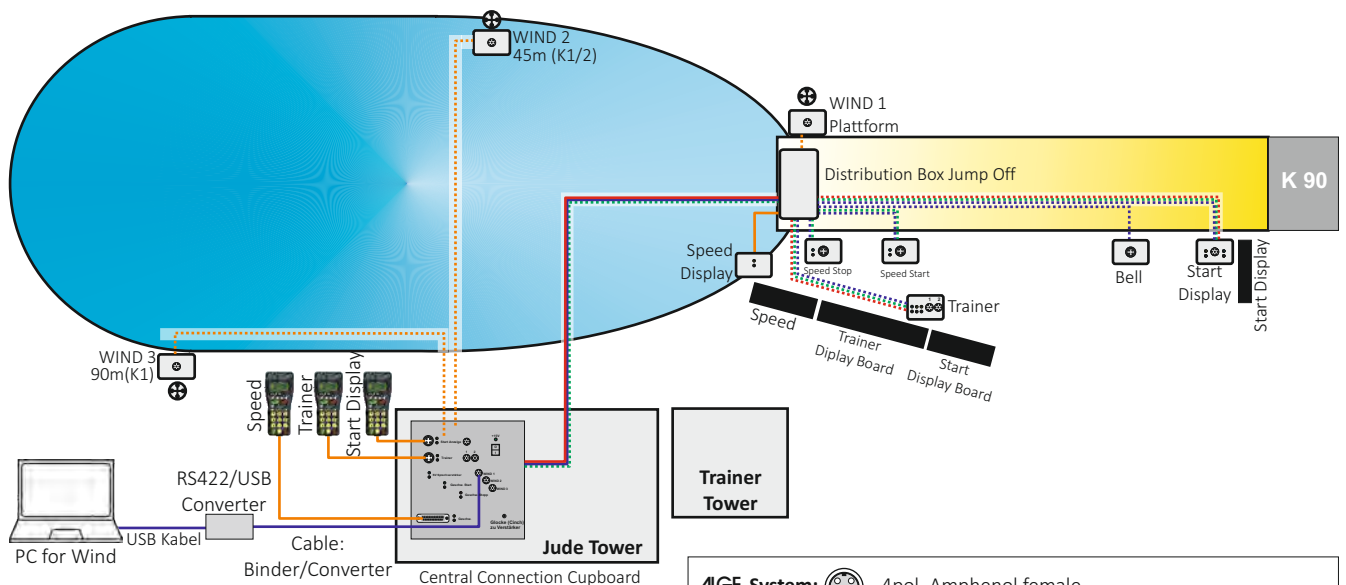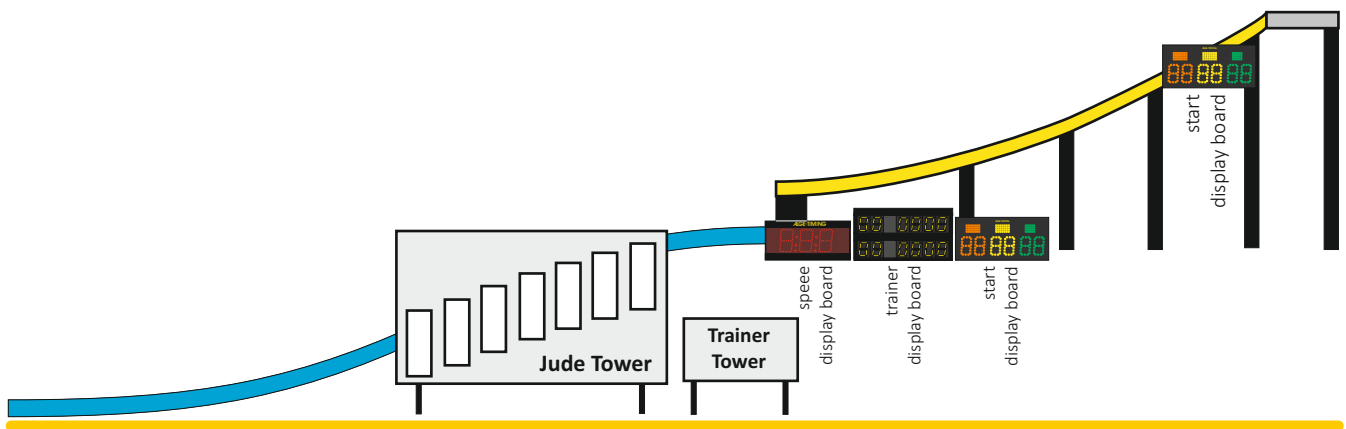
Each judge has a Timy3 W terminal for input of points. The terminals are connected by a Wireless Timing Network (cable free radio network) to each other and the PC. On the PC runs a ski jumping results software. The display boards are controlled directly from the PC.

The speed measurement is also carried out via a Timy3, which directly controls the speed display board and therefore can also be used for training.

The jumping distance can be input manually through a terminal Timy3 or directly at the PC. When using a video distance measuring system, the distance is received online from this system (FIS homologated video distance measuring systems on demand).

Jude Tower

Trainer Tower

speed display board
trainer display board
start display board
start display board

WIND 2 45m (K1/2)

WIND 1 Plattform

Distribution Box Jump Off

K 90

Speed Display

Speed Stop

Speed Start

Bell

Start Display

Start Display

WIND 3 90m(K1)

Speed

Trainer

Start Display

Speed

Trainer
Diplay Board

Start
Display Board

Trainer

RS422/USB Converter

Jude Tower

Trainer Tower

PC for Wind

USB Kabel

Cable: Binder/Converter

Central Connection Cupboard

Weltcup: female 7pol.Miniatur Connector Serie 723- IP 67
Pin1..R+, Pin2..T+, Pin3..T-, Pin4..R-,(crossed)
Pin6..+15V, Pin 7..GND

cable 6x2x0.6 drilled (DM 12mm)

cable 20x2x0.6 drilled (DM 19mm)

ALGE System: 4pol. Amphenol female
Pin1..Start, Pin2..Stop, Pin3..GND, Pin4..+5V

Banana Plug

cable 5x0.75 mm² (alternative: 6x2x0.6 drilled)

cable 12x0.75 mm² (alternative: 20x2x0.6 drilled)

cable 2x0,75 mm² for SV speech amplifier)

cable 6x2x0.6 drilled (DM12mm)

4p. Amphenol male
Pin1..+15V, Pin2..GND, Pin4..Data

The Anemometer (Wind Speed Indicator)

A three-dimensional anemometer with PC software that indicates the wind direction is needed for the ski jumping hill. Three to seven points exist where a wind anemometer can be installed.

For events, one to three anemometers are used depending on the size of the ski jumping hill and the event level. A PC reads the anemometer data and displays the wind information. This PC is situated with the chief of race.

The Timy3 is a compact timing device with unique high-quality technology. The Timy3 impresses with an ergonomic design and absolute reliability, thanks to its robust design.
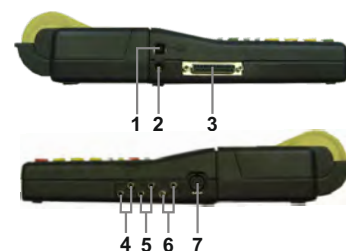
Despite its handy dimensions, the Timy3 has a large and easy-to-use silicone keypad, which can be used in any weather conditions. The printer is integrated into the Timy3 WP and logs times of the entire competition. It has an internal wireless modem of the WTN Wireless Timing Network series and an be connected via radio to all devices of the WTN series. For example, it can receive start impulses, intermediate times and finish impulses, control a display board and send data to a PC with result software. The low power consumption allows it to be used even in cold weather with internal batteries independent from mains.

The Timy3 is equipped with interfaces for communication with external devices, a USB interface, an interface for a display board, an RS232 and an RS485 interface.

Connections:
1- 1 x USB
2- 1 x power supply 8- 22 VDC
3- 1 x D-Sub 25-pin
4- 1 x pair of banana sockets- scoreboard
· 9 time measuring channels
· RS232 (PC connection)
· display board
· RS485 (network)
· power supply (8- 24 VDC in/out)
5- 1 x pair of banana sockets- start input
6- 1 x pair of banana sockets- finish input
7- 1 x DIN socket for photocell

Display
The Timy3 has a monochrome LCD graphic display with 128 x 64 pixels and back light. With this, displaying up to 8 lines of text is possible. Different character sizes, and also graphic symbols for easier operation, can be displayed.

Keypad
Despite its compact dimensions, the Timy3 has a large and easy-to-use silicone keypad, with 26 keys. Even with gloves on, an easy use is ensured.

Accuracy
The Timy3 works on a time of day basis and records it with an accuracy of 1/10,000 seconds. That means that calculated net times of a precision of 1/1,000 seconds are exactly calculated. Highest accuracy at any temperature is guaranteed by a temperature-compensated quartz.

Printer
The Timy3 WP has an integrated thermal printer. This quiet and extremely fast printer allows easy and simple paper change.

Memory
Approximately 30,000 times can be stored with the corresponding bib and timing channels. Updates of the software are available free of charge, via the Internet.

Radio Network - Wireless Timing Network WTN
An integrated WTN module allows to communicate with all devices of the WTN series (WTN wireless radio, WTN-PB wireless push button, PR1aW photocell, WTN-DB and Windspeed WTN-WS scoreboard).

Software
There is a great number of programs for the Timy3. The device is able to cover the entire spectrum for time measurement starting from a hand timer up to the main timer at major events.

Technical Data

Crystal frequency:	TCXO, +/-1 ppm (+/-0.00036 s/h)
Time resolution:	1/10,000 s
Timing:	9 timing channels
Program memory:	flash memory with 16 Mbit
Data memory:	RAM with 4 Mbit (about 30,000 times)
Display:	monochrome LCD graphic display with backlight, 128 x 64 pixels
Keypad:	silicone keypad, 26 keys
Radio module WTN:	built-in 2.4 GHz radio, 15 adjustable frequencies and power output from 10 to 100 mW, 5 timing channels, for distances up to 350 m
Power supply:	internal: NiMH power pack 7.2 V/2 Ah or 6 x AA alkaline (Timy3 W) external: power supply PS12A, 12 V battery or 8- 22 VDC
Power consumption:	without printer about 100 hours with printer about 47 hours
Printer:	graphic thermal printer, max. 5 lines per second
Temperature range:	-20°C to +60°C
Measurements:	Timy3 W: 204 x 91 x 50 mm Timy3 WP: 307 x 91 x 65 mm

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Start Display Board D-SDA1-S

The LED display board D-SDA1 shows the red, yellow and green phase, each with a two-digit countdown with a digit height of 9 cm and a start light.

The system consists of a controller Timy3 W and one or two display boards, which are usually set up at the start and at the coach platform. The time of the countdown phases can be set individually in the controller and stopped at any time. The operation of the lights corresponds with the FIS-specifications.

Trainer Display Board D-LINE80-2x7-E2-RO

The trainer display is mounted at the trainer platform and alternative at the start ramp and finish area. It shows the most important data like bib, rank, speed, total points and width.

It is offered with a figure height of 150 mm (5.9 in) or 250 mm (9.8 in). Alternative we offer custom designed boards.

Display Board D-LINE

The D-LINE is an universal display board to show numerical data. It can be used to show the bib, rank, speed, total points points of a judge and width.

It is offered with figure height of 85 mm (3.3 in), 150 mm (5.9 in) or 250 mm (9.8 in), 450 mm (17.7 in), 600 mm (24.6 in) or 1000 mm (39.4 in). The D-LINE is available with 3 digits or 6 digits.

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