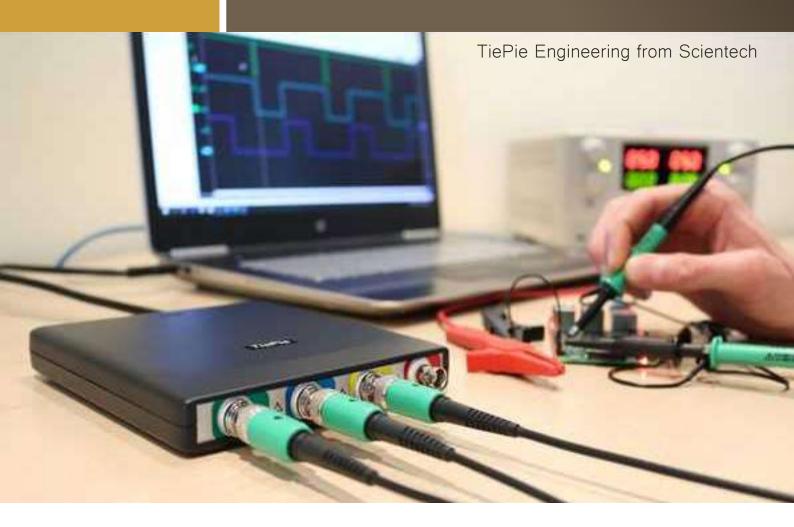
Handyscope HS6 DIFF (USB oscilloscope)



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Speed up your Innovation with a USB oscilloscope

This powerful USB 3.0 super speed oscilloscope combines fast sampling up to 1 GSa/s with high resolutions of 12, 14 and 16 bit and a large memory of 64 Mpoints on all four channels. The oscilloscope supports continuous streaming measurements up to 200 MSa/s and can be synchronized with other oscilloscopes using the CMI interface to form a multi channel combined instrument with synchronized time base. The CMI interface is available by default on the Handyscope HS6 DIFF. Optionally, the Handyscope HS6 DIFF can be delivered with SureConnect connection test and resistance measurement on each channel. Also, the Handyscope HS6 DIFF can be delivered with SafeGround option. With SafeGround you can switch the differential inputs of the Handyscope HS6 DIFF into single ended inputs with ground protection. It allows to make measurements using standard attenuating probes and protects the scope when a short circuit to ground is created.

Do you want to use the Handyscope HS6 DIFF (remotely) via a network connection? Transform the Handyscope HS6 DIFF to a network oscilloscope using an Instrument Sharing Server with TPISS installed.

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SafeGround

SafeGround gives the possibility to use the oscilloscope inputs both as single ended and as differential. When SafeGround is active and you accidentally create a wrong connection that causes a short circuit, SafeGround will disconnect the ground of the input channel without damaging the oscilloscope or PC.

SureConnect

While measuring, the revolutionary SureConnect connection test feature of the Handyscope HS6 DIFF checks in real time whether your test probe or clip actually makes electrical contact with your test subject.

EMI pre compliance testing

The powerful capabilities of the Handyscope HS6 DIFF -1000XMESG EMI analyzer give the user the possibility to quickly perform a good EMI compliance test. With this cost effective test, time and money are saved by avoiding extra visits to expensive EMC testing facilities. The supplied EMI probe set TP-EMI-HS6 contains three magnetic field (H field) probes and one electric field (E field) probe. The tripod ensures that the probes can be positioned properly at the object under test.



Ch1







Multi oscilloscope synchronisation

The Handyscope HS6 DIFF is equipped with a sophisticated CMI synchronization bus, allowing to connect multiple Handyscope HS6 DIFFs to each other by means of TP-C50H Coupling cable CMIs, to use them as a combined oscilloscope. All Handyscopes will measure at the same sample frequency (0 ppm deviation!). Apart from a synchronization bus, the CMI also contains a trigger bus and a detection bus. The maximum number of Handyscopes is only limited by the number available USB ports.

High accuracy

The Handyscope HS6 DIFF measures with high resolutions of 14 and 16 bit. A signal measured with the Handyscope HS6 DIFF therefore has 256 times more resolution than most standalone oscilloscopes, which usually have a low resolution of 8 or 9 bit. The high resolution of the Handyscope HS6 DIFF precision oscilloscope allows for measuring signals with more accuracy, because the quantization error is much lower.

Large memory

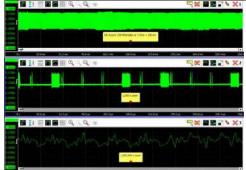
When measuring at high sample rates, a long record length/large memory is necessary to be able to record a complete signal in the acquisition buffer. Where most oscilloscopes have 2.5 kpoints or 100 kpoints memory, the Handyscope HS6 DIFF has up to 256 Mpoints memory per channel, depending on the selected resolution and the number of active channels. When measuring at 14 bit resolution and all four channels, the available memory is 32 Mpoints per channel. This gives the user 300 to 100000 times more memory. An advantage of a large memory is that once-only fast phenomena can be captured accurately or complete serial communication

signal blocks can be measured all at once. For example complete serial communications, like CAN bus signals, can be measured all in one record to be reviewed and analyzed afterwards.

Bandwidth limit

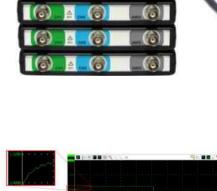
It seems reasonable to assume that more bandwidth is better, but a wider bandwidth gives more noise. To reduce your noise you can switch on a bandwidth limiter for each channel of the Handyscope HS6 DIFF.

| \bigtriangledown Range: \bigtriangleup off \Rightarrow | Probe: |
|---|---------------|
| Range: 150 MHz 1 | Probe: Probe: |
| Range: △ 100 MHz 100 MHz | Probe: |
| Range: A 50 MHz | Probe: |









Software features

Versatile multi channel oscilloscope software

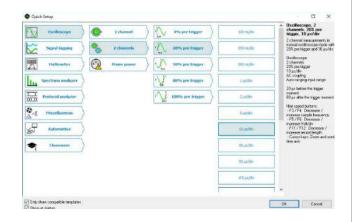
The Handyscope HS6 DIFF is delivered with the versatile multi channel oscilloscope software, which transforms the Handyscope HS6 DIFF into an oscilloscope, spectrum analyzer, data logger, multimeter and protocol analyzer.

Some of the powerful features of the multi channel oscilloscope software are indicated below, for a full description of the multi channel oscilloscope software pages.

Quick Setup

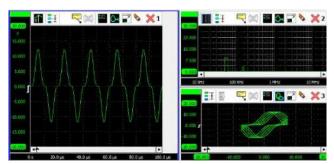
To simplify setting up the measurements, the multi channel oscilloscope software contains a large number of Quick Setups, for almost any application. A Quick Setup contains the basic settings for a specific measurement as well as additional information regarding the selected Quick Setup, like e.g. how your Handyscope and/or accessories need to be connected. Quick Setups can also contain reference signals. After loading the Quick Setup, that specific measurement can be performed and if needed, small adjustments to the setup can be made.

The Quick Setups are carefully organized in a tree structure, ordered by application. Just a few mouse clicks allow to perform a complex measurement.



Flexible signal displays

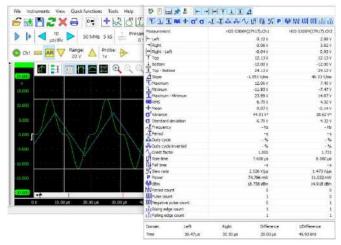
The multi channel oscilloscope software scope, spectrum analyzer and datalogger offer an ultimately flexible way to display all aspects of the measured signals. They can have one or more graphs, each displaying one or more signals, where each graph can display different parts of a signal. Graphs can display the signal(s) of your Handyscope in Yt mode, in XY mode or as frequency spectrum, with or without interpolation. Colors of all items in a graph can be set to any required value. Graph dimensions can be adjusted to any required size, graphs can be located in one single window or in separate windows, which can be located anywhere on the desktop.



Many automatic measurements

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The multi channel oscilloscope software features many automatic measurements, that can be performed on the measured signals of your Handyscope or on a selection of the measured signals. Using the automatic measurements in the oscilloscope, any detail of your signal is revealed. Two sets of cursors, both horizontal and vertical, can be used to indicate a part of the signal that needs to be examined thoroughly. The automatic measurements include e.g.: Mininum, Maximum, Top-Bottom, RMS, Mean, Variance, Standard deviation, Frequency.



The measurement results are shown in a special value window that can be positioned anywhere on your computer screen. A

convenient toolbar allows you to enable or disable a measurement with a single click. The measurement results can be copied to the clipboard e.g. to use them in reports. When printing the graphs, the cursors and measurements results are also included.

High detail spectrum analyzer

The high detail multi channel oscilloscope software spectrum analyzer takes full benefit of the deep memory of the high resolution USB Handyscopes. Not only gives the deep memory an incredible low resolution bandwidth of just 7.45 Hz at a frequency span of 500 MHz, it also gives a vertical dynamic range of 140 dB. The fast and powerful FFT routines with many user selectable window functions

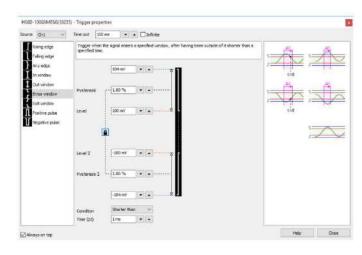


allow you to see the smallest frequency components in your signals.

The multi display option of the multi channel oscilloscope software spectrum analyzer allows viewing multiple parts of the spectrum at the same time, giving a better understanding of the signals that are analyzed.

Advanced triggers

To control the advanced trigger capabilities of your Handyscope, the multi channel oscilloscope software provides for a convenient trigger properties dialog. It allows to view and set all properties of the trigger, like e.g. trigger source, trigger type, all levels and hystereses and optional time conditions. Additionally, it gives an explanation on the selected trigger type and examples that do cause a trigger (left column) and do not cause a trigger (right column).

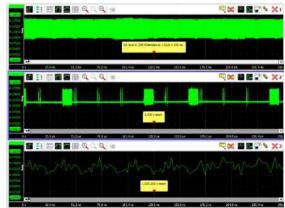


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Unlimited zoom

When measuring at high sample rates, a long record length is a must, otherwise the acquisition buffer is full before the signal is measured. Therefore, our Handyscopes can have up to 256 MSamples record length per channel.

To view all that data conveniently and yet being able to see all details of the signals, the multi channel oscilloscope software scope, spectrum analyzer and data logger support sophisticated signal drawing routines with unlimited zooming capabilities. The full signal can be shown on any display size, without loss of information. Yet, you can zoom in to



any required level, to see the finest details in the signals. Zooming factors of 1 million of even more are no problem, you can zoom in far beyond sample level.

Analyze fast serial communication protocols

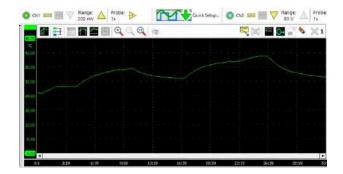
To analyze or debug your serial communications, simply measure the signal(s) transferring the protocol with your Handyscope and have them analyzed and decoded by one of the multi channel oscilloscope software protocol analyzers. The decoded information from the serial communications can be shown in tables, in graphs and in the multimeter.

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| .500 | | | | | | | | | | | | | |
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| 250 500 | | Begin 0.s 1.252 ms 2.952 ms 3.324 ms | End 188 ps 1 442 mi 3 195 mi 3 958 mi | 0 0x00003651 0x00003470 0x0000320 0x0000230 | RTR 8 0 | 10E 0 0 0 0 | R1 0 0 0 | R0 0 0 0 0 | DLC 6 8 8 8 | C0 03 50 AF 25 47 00 04 46 00 10 20 01 16 01 08 08 00 82 11 8A 00 00 28 00 28 28 | 0x2425 0x503F 0x2505 0x7152 | () () () () () () () () () () | |
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| .250 | | Begin 0 s 1 252 mi 2 952 mi 3 324 mi 3 599 mi | End 188 ps 1 442 mi 3 195 mi 3 958 mi 3 814 mi | 0 0x0000851 0x0000470 0x0000320 0x00003290 0x0000290 | RTR 8 0 0 0 9 | 10E 0 0 0 0 0 | R1 0 0 0 | R0 0 0 0 0 0 0 0 | DLC 5 8 8 8 8 8 8 | C0 03 50 AF 25 47 00 04 46 00 10 20 01 16 01 08 08 10 82 11 8A 00 00 28 00 28 28 8F AS 31 00 00 46 30 AF | 0x242E 0x50.9F 0x250E 0x71E2 0x0F15 | () () () () () () () () () () | |
| .000 .250 .750 .750 .750 | 24 ms | Begin 0 s 1.252 ms 2.952 ms 3.324 ms 3.529 ms 8.977 ms | End 188 ps 1 442 ms 3 195 ms 3 958 ms 2 814 ms 10.211 ms | 10 0x00000451 0x00000470 0x00000320 0x00000280 0x00000295 0x00000057 | RTR 8 0 0 0 9 | IDE 0 0 0 0 0 0 0 0 | 81 | R0 0 0 0 0 | DLC 6 8 8 8 8 8 8 8 8 8 1 | C0 00 50 AF 25 47 00 04 46 00 10 20 01 16 01 08 08 00 82 11 8A 08 00 28 00 28 38 8F AS 31 00 00 45 90 AF 11 08 60 67 00 00 00 00 | 0x242E 0x2009F 0x260E 0x71E2 0x0F15 0x5EA0 | (| * 747 |

A protocol analyzer is a useful tool when developing a hardware and/or software implementation of a communication bus. It can also be used when debugging device or bus failures.

24/7 Data logging

Measuring long term signal changes with your Handyscope is done with the multi channel oscilloscope software Data logger. The data logger logs your signal, continuously uninterrupted at high speed, 24 hour a day, 7 days a week. Results are immediately shown on the screen and all data can be stored to disk. A convenient toolbar lets you navigate through the stored files to find the important moments in the measurement.



Technical Specification

| Acqu | isition system | | | | | | | | | | |
|--------------------------|-------------------------------------|---|--|----------------|-------------|-------------|---------|--|--|--|--|
| Number of input channels | | | 4 analog | | | | | | | | |
| CH1, CH2, Ch3, CH4 | | | Isolated Female BNC | | | | | | | | |
| | Туре | : | Differential input | | | | | | | | |
| | Resolution | : | 8, 12, 14, 16 bit user selectable | | | | | | | | |
| | DC Accuracy | : | 0.25 % (0.1 % typical) of full scale \pm 1 LSB at 20°C to 25 | | | | | | | | |
| | Ranges (Full scale) | : | ±200mV | ±2V | ±20V | | | | | | |
| | | | ±400mV | ±4V | ±40V | | | | | | |
| | | | ±800mV | ±8V | ±80V | | | | | | |
| | Coupling | : | AC/DC | | | | | | | | |
| | Impedance | : | 2 MOhm / 1 | 2 pF ± 1 % | | | | | | | |
| | | | 1 MOhm / 2 | 0 pF ± 1 % wl | hen SafeGro | und enabled | | | | | |
| | Maximum voltage | : | 200 V (DC + | AC peak < 10 | kHz) | | | | | | |
| | Maximum Common Mode voltage | : | 200 mV to 8 | 00 mV range | s : 2 V | | | | | | |
| | 2 V to 8 V ranges | : | 20 V | | | | | | | | |
| | 20 V to 80 V ranges | : | 200 V | | | | | | | | |
| | Common Mode Rejection Ratio | : | -47 dB | | | | | | | | |
| Bandv | vidth | : | HS6D-1000 | HS6D-500 | HS6D-200 | HS6D-100 | HS6D-50 | | | | |
| | -3dB at 75 % of full scale input | : | 250 MHz | 250 MHz | 250 MHz | 100 MHz | 100 MHz | | | | |
| | Limit, selectable per channel (MHz) | : | Off 250 | Off 250 | Off 250 | Off 100 | Off 100 | | | | |
| | | | 150 MHz | 150 MHz | 150MHz | 75 MHz | 75 MHz | | | | |
| | | | 100 MHz | 100 MHz | 100 MHz | 50 MHz | 50 MHz | | | | |
| | | | 50 MHz | 50 MHz | 50 MHz | 25 MHZ | 25 MHZ | | | | |
| AC co | upling cut off frequency (-3dB) | : | ±1.5 Hz | | | | | | | | |
| SureC | onnect | : | Optionally a | vailable (opti | on S) | | | | | | |
| | Maximum voltage on connection | : | 200 V (DC + | AC peak < 10 | kHz) | | | | | | |
| | Resistance measurement | : | Optionally a | vailable (opti | on S) | | | | | | |
| | Ranges (Full scale) | : | 100 kΩ | 1 kΩ | 10 kΩ | 100 kΩ | 1 MΩ | | | | |
| | | | 200 kΩ | 2 kΩ | 20 kΩ | 200 kΩ | 2 MΩ | | | | |
| | | | 500 kΩ | 5 kΩ | 50 kΩ | 500 kΩ | | | | | |
| | Accuracy | : | 1 % of full so | ale | | | | | | | |
| | Response time (to 95%) | : | < 10 µs | | | | | | | | |
| SafeG | round | : | Optionally available (option G) | | | | | | | | |
| | Maximum voltage on connection | : | 200 V (DC + | AC peak < 10 | kHz) | | | | | | |
| | Maximum switch off current | : | 500 mA | | | | | | | | |
| | Response time | : | < 100 ns | | | | | | | | |

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Handyscope HS6 DIFF (USB oscilloscope)

| Maximum sampling rate : | HS6D-1000 | HS6D-500 | HS6D-200 | HS6D-100 | HS6D-50 |
|------------------------------------|--------------|---------------|------------|-----------|-------------|
| 8 bit | 1000 1000 | 1000 000 | 1000 200 | 1000 100 | 11000 00 |
| measuring one channel : | 1 GSa/s | 500 MSa/s | 200 MSa/s | 100 MSa/s | 50 MSa/s |
| measuring two channels : | 500 MSa/s | 200 MSa/s | 100 MSa/s | 50 MSa/s | 20 MSa/s |
| measuring three or four channels : | 200 MSa/s | 100 MSa/s | 50 MSa/s | 20 MSa/s | 10 MSa/s |
| 12 bit | , | , | | | , |
| measuring one channel : | 500 MSa/s | 200 MSa/s | 100 MSa/s | 50 MSa/s | 20 MSa/s |
| measuring two channels : | 200 MSa/s | 100 MSa/s | 50 MSa/s | 20 MSa/s | 10 MSa/s |
| measuring three or four channels : | 100 MSa/s | 50 MSa/s | 20 MSa/s | 10 MSa/s | 5 MSa/s |
| 14 bit : | 100 MSa/s | 50 MSa/s | 20 MSa/s | 10 MSa/s | 5 MSa/s |
| 16 bit : | 6.25 MSa/s | 3.125 MSa/s | 1.25 MSa/s | 625 kSa/s | 312.5 kSa/s |
| | | | | | |
| Maximum streaming rate 1 : | HS6D-1000 | HS6D-500 | HS6D-200 | HS6D-100 | HS6D-50 |
| 8 bit | | | | | |
| measuring one channel : | 200 MSa/s2 | 100 MSa/s2 | 40 MSa/s | 20 MSa/s | 10 MSa/s |
| measuring two channels : | 100 MSa/s3 | 50 MSa/s3 | 20 MSa/s | 10 MSa/s | 5 MSa/s |
| measuring three or four channels : | 50 MSa/s4 | 25 MSa/s4 | 10 MSa/s | 5 MSa/s | 2.5 MSa/s |
| 12 bit | | | | | |
| measuring one channel : | 100 MSa/s3 | 50 MSa/s3 | 20 MSa/s | 10 MSa/s | 5 MSa/s |
| measuring two channels : | 50 MSa/s4 | 25 MSa/s4 | 10 MSa/s | 5 MSa/s | 2.5 MSa/s |
| measuring three or four channels : | 25 MSa/s5 | 12.5 MSa/s5 | 5 MSa/s | 2.5 MSa/s | 1.25 MSa/s |
| 14 bit | | | | | |
| measuring one channel : | 100 MSa/s3 | 50 MSa/s3 | 20 MSa/s | 10 MSa/s | 5 MSa/s |
| measuring two channels : | 50 MSa/s4 | 25 MSa/s4 | 10 MSa/s | 5 MSa/s | 2.5 MSa/s |
| measuring three or four channels : | 25 MSa/s5 | 12.5 MSa/s5 | 5 MSa/s | 2.5 MSa/s | 1.25 MSa/s |
| 16 bit : | 6.25 MSa/s6 | 3.125 MSa/s | 1.25 MSa/s | 625 kSa/s | 312.5 kSa/s |
| Sampling clock source | | | | | |
| Internal : | ТСХО | | | | |
| Accuracy : | ± 0.0001 % | | | | |
| Stability : | ± 1 ppm ove | r 0°C to 55°C | | | |
| Time base aging : | ±1 ppm/yea | r | | | |
| External : | LVDS, on CM | ll connectors | | | |
| Input frequency : | 10 MHz ± 1 9 | % | | | |
| | 16.369 MHz | ±1% | | | |

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Handyscope HS6 DIFF (USB oscilloscope)

| Memory : | Standard model | XM option |
|-----------------------------------|----------------------|----------------------|
| 8 bit resolution | | |
| Measuring one channel : | 1 Mpts per channel | 256 Mpts per channel |
| Measuring two channels : | 512 Kpts per channel | 128 Mpts per channel |
| Measuring three or four channels: | 256 Kpts per channel | 64 Mpts per channel |
| 12, 14, 16 bit resolution | | |
| Measuring one channel : | 512 Kpts per channel | 128 Mpts per channel |
| Measuring two channels : | 256 Kpts per channel | 64 Mpts per channel |
| Measuring three or four channels: | 128 Kpts per channel | 32 Mpts per channel |

Trigger

| System | : | Digital, 2 levels |
|--------------------------|---|--|
| Source | : | CH1, CH2, CH3, CH4, OR, digital external |
| Trigger modes | : | Rising edge, falling edge, any edge, inside window, outside window, enter window, exit window, pulse width |
| Level adjustment | : | 0 to 100 % of full scale |
| Hysteresis adjustment | : | 0 to 100 % of full scale |
| Resolution | : | 0.006 % (14, 16 bits) / 0.025% (12 bits) |
| Pre trigger | : | 0 to selected record length, 1 sample resolution |
| Post trigger | : | 0 to selected record length, 1 sample resolution |
| Trigger hold-off | : | 0 to 63 MSamples, 1 sample resolution |
| Trigger delay | : | 0 to 8 GSamples, 1 sample resolution |
| Digital external trigger | | |
| Input | : | Extension connector pins 1 and 2 |
| Range | : | 0 to 2.5 V (TTL) |
| Coupling | : | DC |
| Jitter | : | \leq 1 sample |

Multi-instrument synchronization

| Maximum number of instruments | : | Limited by number of available USB ports |
|-------------------------------|---|--|
| Synchronization accuracy | : | 0 ppm |
| CMI interface | : | 2x, CMI 1, CMI 2 |
| Required coupling cable | : | TP-C50H Coupling cable CMI |
| Maximum coupling cable length | : | 50 cm |

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Probe calibration

Output Extension connector Signal

Level Frequency

Interface

Interface

Network support

Power Requirements

Power Consumption External power

Physical

Instrument Height Length Width : Weight USB cord length :

I/O connectors

Channel 1, 2, 3, 4 USB Extension connector Power CMI I/O connectors

System requirements

PC I/O connection Operating system

Environment conditions

Operating

Ambient temperature 20°C to 25°C (10°C to 40°C without specifications) : Relative humidity : 10 % to 90 %, non condensing Storage Ambient temperature -20°C to 70°C : Relative humidity

- pins 3 (signal) and 6 (ground) :
- Square wave :
- : -1 V to 1 V
- 1 kHz
- : USB 3.0 SuperSpeed (5 Gbit/s); (USB 2.0 HighSpeed compatible)
- : Yes, via TPISS Instrument Sharing Server
- : From USB port or external input
- : 5 VDC 1200 mA max
- From second USB port or power adapter :
- : 25 mm (1 inch)
- : 170 mm (6.7 inch)
- 140 mm (5.2 inch)
- : 500 g (17.6 ounce)
- 1.8 m (70 inch)
- : Isolated BNC
- : Fixed cable with USB 3.0 type A connector, 1.8 m
- : D-sub 9 pins female
- 3.5 mm power socket
- 2 x HDMI type C socket
- : USB 2.0, USB 3.0 or USB 3.1
- : Windows 10, 32 and 64 bits Linux (via LibTiePie SDK)

5 % to 95 %, non condensing

Certification and Compliances

| CE mark compliance | : | Yes |
|--------------------|---|-----|
| RoHS | : | Yes |

Package contents

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The Handyscope HS6 DIFF is delivered with:

- Carry case
- Instrument
- Measure leads

Differential attenuator

- Alligator clips, large
- Alligator clips, medium
- Alligator clips, small
- Accessories
- Software
- Soltwale
- Drivers Software Development Kit
- Manuals

: Carry case BB391

:

- : Handyscope HS6 DIFF
- : 4 x Measure lead TP-C812B, Differential BNC -> 4 mm banana plug
- 4 x Differential attenuator TP-DA10
- Alligator Clip TP-AC80I Set, 8 large alligator clips
- : Alligator Clip TP-AC10I Set, 8 medium alligator clips
- : Alligator Clip TP-AC5 Set, 8 small alligator clips
- : Handyscope / WiFiScope power supply, external power cable for USB port, Probe compensation cable TP-DB9-BNC-30 (only with option SafeGround)
- : for Windows 10, via website
- for Windows 10, via website
- : for Windows 10 and Linux, via website
- : instrument manual and software user's manuals color printed and digital, via website





Related Products



Differential Probe SI-9002



Current clamp TP-CC80



Current clamp TP-CC600



Current clamp TP-CC400



Back Probe TP-BP85



Alligator Clip TP-AC50B Set



Measure Lead TP-C812B



Measure Lead TP-C1812B



Alligator Clip TP-AC80I



Test Probe TP-TP90 Set



Accelerometer TP-ACC20



Differential attenuator TP-DA10



Handyscope HS6 DIFF (USB oscilloscope)



TP-C50H Coupling cable CMI



Rubber Protector TP-RP-HS



Differential attenuator TP-DA25



Alligator Clip TP-AC101



Alligator Clip TP-AC5



Oscilloscope Probe 1:1-1:10-HP-3250I



Measure lead TP-BNCI-100



Milliohm Meter TP-MM3000



Carry case Bb391



Probe compensation cable TP-DB9-BNC-30



Handyscope/WiFiScope Power supply