

## PRODUCT INFORMATION

# F-SCAN®

## DIGITAL FREQUENCY SYNTHESIZER

### F-SCAN MOBILE NT



### F-SCAN3



### F-SCAN4



### F-SCAN COMPACT



### F-SCAN MinDevice



### F-SCAN SOFTWARE



### ACCESSORIES

# General

## Frequency generation

Precise and stable frequencies with sine or square wave forms are digitally synthesized. The most advanced technology is utilized and allows the integration of useful and most comfortable functions into our product line F-SCAN MOBILE, F-SCAN3 and F-SCAN COMPACT. Handling and operation of our devices are explained in detailed operating manuals. Most customers report that it was easy to get started.

## Use of our Frequency Synthesizers

Our devices provide functions compatible to the requirements defined by Dr. Hulda R. CLARK and those attributed to Royal R. RIFE. We must stress however, that any medical claims made in line with the duplication of the methods published by Dr. H. R. CLARK, and of those methods attributed to R. R. RIFE, have not been substantiated or approved by the Authorities. Any such medical claims must be considered anecdotes by nature. Our Frequency Synthesizers are not medical devices.

OUR FREQUENCY SYNTHESIZERS ARE USED UNDER THE SOLE RESPONSIBILITY OF THE OPERATOR WITHOUT LIABILITY OF THE MANUFACTURER.

## DIRP

DIRP (**D**ual **I**ntegration **R**esonance **P**rocedure) is an automated procedure to get a resonance feedback from an applicant if a frequency is fed to him. The results are displayed as a graph, can be edited, stored for reference, or used whole or in part as a base for an application.

The procedure is organized similar to a SWEEP. A frequency is fed to the applicant via an active electrode (anode) connected to the red lead of an application cable. A finger electrode carries the resonance feedback to the device where it is displayed and stored.

The DIRP analysis covers a frequency range defined by the user. He sets an upper and a lower limit of the range and the step size to use between the limits. The routine takes a few minutes depending on the range to cover.

## Basic features of F-SCAN MOBILE and F-SCAN3:

- Operating range between 0.01 Hz and 3 MHz (3'000'000Hz)
- Dedicated SINE on MULTI SIGNAL output port, signal's DC-OFFSET positive.
- Dedicated SQUARE on MULTI SIGNAL output port, signal FULL WAVE with adjustable amplitude
- Input and application of random frequency value within the operating range
- Sequential output of up to 50 frequency values from the operating memory
- WOBBLE – function (Output swings around the target frequency in a range defined by the user)
- SWEEP – function (A wide band application of frequencies in defined steps between limits)
- Capacity to store user defined applications permanently
- Permanent library function with large selection of applications
- Data exchange between all devices with ChipCards
- USB connection for software remote operation
- Warranty: 2 years. Not included in warranty are shipment expenses and import fees and taxes or external expenses courier companies.

No warranty for all kind of application parts. Warranty on cables only if cables have not been used and returned in original packings. Rechargeable batteries are not under warranty if their capacity is more than 50% of the nominal charge.

## Brief Description



The F-SCAN MOBILE offers mobility and comfort. All settings and commands are entered with the display pen on the colored touch screen. The device has a multi signal output port for sine wave, adjustable square waves (full wave and dc-offset), smart wave. All connectors supporting applications are accessible from the front.

The F-SCAN MOBILE is operated from a rechargeable Lithium Ion battery. The operation time with one charge is approximately 4 hours.

## Product highlights

- Fast reaction to commands entered on the touch screen.
- DIRP analysis function with graphic display of results.
- Multi-signal OUTPUT port for sine- and square wave signals and smart wave.
- Dedicated POWER PORT with amplified output to drive accessories.
- Feature to assign amplitudes to square wave signals as a function of the frequency value.
- Feature to store 100 data sets of up to 50 frequency values, with their settings, plus a related set of DIRP results with each data set – if applicable.
- Features to select individually: WOBBLE, SWEEP, AMPLITUDE.
- Frequency range and step size for DIRP and SWEEP defined by the user.
- Operating range for sine wave signals 0.01 Hz to 3 MHz (3'000'000 Hz).
- Operating range for square wave signals 0.01 Hz to 100 kHz (100'000 Hz).
- Individual runtime can be assigned to each frequency value.
- Individual library function with up to 460 entries.
- „Soft ramping“ when switching from one frequency value to the next to avoid discharge phenomena.
- Intelligent AUTO-R function - this function adjusts the signal strength fully automatically when enabled.

## Multi-signal OUTPUT port

All signal forms are available on this port. The device switches automatically to square wave signals if the frequency value output is below 65'000 Hz and to sine wave signals for frequency values above 65'000 Hz. The user can override this assignment at any time with a touch on the wave form icon on the display.

## Program windows selectable from the touch screen display

The main program windows open at the touch of their header. Each offers settings and functions to change, select or start with a touch. It does not take long to learn their use. A detailed instruction manual is shipped with the device. Default values preset at the factory settings for common applications support a quick start.

## Specials

- The special wave form SMART combines the main wave with a high frequency for best efficiency.
- The ChipCard makes simple data exchange with F-SCAN COMPACT possible.
- The ChipCard PLUS makes simple and fast data exchange between F-SCAN MOBILE NT, F-SCAN3 and F-SCAN4 possible.
- Display VGA 480 \* 272 pixels
- Dimensions: 138mm \* 90mm \* 25mm

## Shipping list for F-SCAN MOBILE NT

- Universal power supply.
- Pair of stainless steel cylinders.
- Application cable for handholds.
- Finger sensor.
- Two sets of gel pad electrodes (sticky pads).
- USB cable.
- Software.

Price: CHF 2'693.- (incl. 7.7% Swiss VAT).

Product design, specifications and prices are subject to change without prior notice.

Weight: 900g

TARIC:90308900



## F-SCAN3

## FTB126

### Brief description

The F-SCAN3 is an excellent model for professional use. It combines functionality with ease and comfort of operation. The large color touch screen display, with an optimized operating routine, offers all functions for frequency applications. A SMART wave frequency can be modulated by a standard frequency to intensify an application. An EAP analysis function is integrated for use by experts as option. An external storage device, the ChipCard, can be used to transfer programs to an F-SCAN COMPACT or a ChipCard PLUS can be used for data exchange between F-SCAN3, F-SCAN4 and F-SCAN MOBILE NT.

### Product highlights

- Adjustable amplitudes for SINE wave signals.
- Individual settings can be assigned to each frequency value used in an application:
  - Amplitude of SQUARE wave signal.
  - WOBBLE with individual setting of the band width around the target frequency.
  - ENVELOPE (oscillates the amplitude between 0 Volt and the assigned value).
  - TIMER – function.
- Large color touch screen display with graphic capability.
- External storage media ChipCard for data management.
- Feature to assign amplitudes to square wave signals as a function of the frequency value.
- Zoom-feature as tool to edit results of a DIRP analysis displayed as a curve.
- Multi signal output port:
  - SINE: Signals 0.01 Hz to 3 MHz, DC-OFFSET.
  - SQUARE 1: Signals 0.01 Hz to 100kHz, adjustable amplitude, FULL WAVE.
  - SQUARE 2: Signals 0.01 Hz to 100 kHz, adjustable amplitude, DC-OFFSET.
  - SMART wave for higher efficiency.
- Extra PowerPort: Amplified signals to drive accessories.
- Individual library function with up to 460 entries.
- Built-in EAP-measurement capability as option. The stylus (option) connects to the SENSOR port. For trained experts only.

### Program windows selectable from the touch screen display

The main program windows open at the touch of their button. Each offers settings and functions to change, select or start with a touch. It does not take long to learn their use. A detailed instruction manual is shipped with the device. Default values preset at the factory for common applications support a quick start.

## Specials

If required, multi signal output and PowerPort can be used simultaneously. Program windows selectable from the touch screen display: The main program windows open at the touch of their header. Each offers settings and functions to change, select or start with a touch. It does not take long to learn their use. A detailed instruction manual is shipped with the device. Default values preset at the factory for common applications support a quick start.

Solid aluminum enclosure. Dimensions 170mm x 130mm x 25mm.

The special wave form SMART combines the main wave with a high frequency for best efficiency.

The ChipCard makes simple data exchange with F-SCAN COMPACT possible.

The ChipCard PLUS makes simple and fast data exchange between F-SCAN MOBILE and F-SCAN3 possible.

**Shipping list for F-SCAN3 FT126** battery operated for more than 4 hours operation.

- USB charger.
- Stainless steel cylinder electrodes.
- Finger sensor.
- Two sets of gel pad electrodes (sticky pads).
- Application cable for cylinder electrodes & gel pad electrodes.
- USB cable.
- Instruction manual on CD for self printing.

CHF 4'089.- (incl. 7.7% Swiss VAT).

Product design, specifications and prices are subject to change without prior notice.

Weight: 1400g

TARIC:90308900

## Brief description

The F-SCAN3 is the top model of our product line. It combines functionality with ease and comfort of operation. The large color touch screen display, with an optimized operating routine, offers all functions for frequency applications. A SMART wave frequency can be modulated by a standard frequency to intensify an application. An EAP analysis function is integrated for use by experts as option. An external storage device, the ChipCard, can be used to transfer programs to an F-SCAN COMPACT or a ChipCard PLUS can be used for data exchange between F-SCAN3, F-SCAN4 and F-SCAN MOBILE NT.



## Product highlights

- Adjustable amplitudes for SINE wave signals.
- OSCA - the new standard for current control
- DIRP for standard scans
- SUB SCAN for specific scans
  
- Individual settings can be assigned to each frequency value used in an application:
  - Amplitude of SQUARE wave signal.
  - WOBBLE with individual setting of the band width around the target frequency.
  - ENVELOPE (oscillates the amplitude between 0 Volt and the assigned value).
  - TIMER – function.
  
- Large color touch screen display with graphic capability.
- External storage media ChipCard for data management
- Feature to assign amplitudes to square wave signals as a function of the frequency value.
- Zoom-feature as tool to edit results of a DIRP analysis displayed as a curve.
- Multi signal output port:
  - SINE: Signals 0.01 Hz to 3 MHz, DC-OFFSET.
  - SQUARE 1: Signals 0.01 Hz to 100kHz, adjustable amplitude, FULL WAVE.
  - SQUARE 2: Signals 0.01 Hz to 100 kHz, adjustable amplitude, DC-OFFSET.
  - SMART wave for higher efficiency.
- Extra PowerPort: Amplified signals to drive accessories.
- **Extra wide band sine wave output up to 15 MHz at 5Vpp** (volt-peak-peak).
- Individual library function with up to 460 entries.
- Built-in EAP-measurement capability as option. The stylus (option) connects to the SENSOR port. For trained experts only.
- Program windows selectable from the touch screen display

## Specials

- If required, multi signal output and PowerPort and WIDE output can be used simultaneously.
- Program windows selectable from the touch screen display: The main program windows open at the touch of their header. Each offers settings and functions to change, select or start with a touch. It does not take long to learn their use. A detailed instruction manual is shipped with the device. Default values preset at the factory for common applications support a quick start.
- Dimensions 205 mm x 140 mm x 30 mm.
- LCD: VGA 800 \* 480 pixels.
- The special wave form SMART combines the main wave with a high frequency for best efficiency.
- **Wide band output for analysis and application of frequencies in the megahertz range.**
- The ChipCard makes simple data exchange with F-SCAN COMPACT possible.
- The ChipCard PLUS makes simple and fast data exchange between F-SCAN MOBILE NT, F-SCAN4 and F-SCAN3 possible.

## OSCA the new standard

OSCA is the abbreviation for "Output Signal Control Algorithm".

OSCA is a procedure that has been developed by TB-Electronics. This feature is being used to adjust output signal to the application in real time. The very sensitive measuring method that is used in this procedure can measure electrical currents in the micro ampere range and control them according to their waveform and impedance.

Electrical currents that are generated by frequency generators, comply themselves with the impedance of the "consumer" or "load". "Load" is what is attached to the output. In this case impedance means that the "load" does not behave linear like an electric resistor but like a combination of resistors and capacitors. Therefore, the "load" is dependent of the frequency and even on the activated waveform.

On F-SCAN devices of the upper class you can choose between square waves and sine waves and a frequency range of 0.01 Hz up to over 3 MHz. For the frequency-dependent "load" this means, that with e.g. low frequencies the impact could be huge, even though the electrical current flow is low. High frequencies on the other hand could only have a small impact, even though the electrical current flow is high. And adding to all this, it matters what wave form you choose.

In order for the application to work ideally with an F-SCAN4, OSCA is being introduced for the first time. OSCA can be activated on different levels. You can choose between "OFF", "SENSITIVE", "STANDARD" and "HIGH"; depending on the sensitivity of the "load".

If OSCA is turned off, the signal strength is — according to the amplitude-setting — activated for all the waveforms. As soon as OSCA is activated, the amplitude is continuously controlled according to the current measurement of the electrical current flow (measured in micro amperes). During application, the measured electrical current as well as the amplitude-settings are displayed in real-time in all the menus of the F-SCAN4.

The combination of the DIRP (to record the feedback) and the OSCA is unique and it is going to optimize frequency application once more.



**Shipping list for F-SCAN4 FT128** battery operated for more than 4 hours operation.

- USB charger.
- Stainless steel cylinder electrodes.
- Finger sensor.
- Two sets of gel pad electrodes (sticky pads).
- Application cable for cylinder electrodes & gel pad electrodes.
- USB cable.
- Instruction manual

Price CHF 5'924 (ind. 7.7% Swiss VAT).

Product design, specifications and prices are subject to change without prior notice.

Weight: 1200g      TARIC:90308900

# F-SCAN COMPACT



## Brief description

The **F-SCAN COMPACT** is a fully fledged frequency synthesizer. Up to 10 (optional 100) sequences of frequencies defined by the user can be stored, repeatedly used, or replaced.

More than 330 standard frequency applications are factory installed and cannot be altered by the user. Their selection was based on years of user experience.

The **F-SCAN COMPACT** has been developed to complement our existing F-SCAN product line with a mobile device devoted to applications.

## Product highlights

- Operation with navigation-keys on a plastic housing.
- More than 330 preset applications.
- 10 memory banks can be filled by the user with individually selected applications. of up to 50 frequencies (optional model with 100 memory banks).
- Rechargeable Li-ion battery for 3.5 hrs operation between charges.
- Battery charged via USB-connection.
- Frequency range 0.01 Hz to 1.7 Megahertz.
- Frequency stability 30ppm.
- Output voltage adjustable up to +/-12V.
- Three wave forms selectable: Sine, square full wave, square DC-Offset positive.
- Application time adjustable.
- SWEEP-function with adjustable upper and lower limits for frequency band covered.
- Unit switches off after 2 minutes of inactivity.
- Optional model with DIRP-function available.
- Battery control.
- LED confirms activity.
- Graphic display with 128 x 64 pixel.
- Acoustic confirmation of inputs and status changes.
- Dimensions: 106mm x 66mm x 29mm.

## Shipment from the factory includes:

- F-SCAN COMPACT.
- Charger with USB to mini-USB cable.
- Stainless steel handholds with application cable.
- Instruction manual.

**Versions of the F-SCAN COMPACT:**

Article id	Description	No. Of memory slots	Language of ABC List	DIRP	Price CHF
FTB113	F-SCAN COMPACT SP10	10	GERMAN	NO	778
FTB114	F-SCAN COMPACT SP10	10	ENGLISH	NO	778
FTB115	F-SCAN COMPACT SP100	100	GERMAN	NO	928
FTB116	F-SCAN COMPACT SP100	100	ENGLISH	NO	928
FTB117	F-SCAN COMPACT SP100	100	GERMAN	YES	1426
FTB118	F-SCAN COMPACT SP100	100	ENGLISH	YES	1426
FTB119	F-SCAN COMPACT SP10	10	GERMAN	YES	1277
FTB120	F-SCAN COMPACT SP10	10	ENGLISH	YES	1277

**Further Options which can be ordered with an F-SCAN COMPACT:**

FTB212      PowerPort for F-SCAN COMPACT      CHF 91.55  
Additional connector for power appliances such like  
magnetic field electrode.

Note: when magnetic field electrode is connected, the  
Operational time will be reduced to approx. 1 hour.

Weight: 700g      TARIC:90308900

Product design, specifications and prices are subject to change without prior notice.

Prices incl. 7,7% Swiss VAT.

# F-SCAN MinDevice FTB121a



## Brief description

The **F-SCAN MinDevice** is a frequency generator which can be used for one sole pre-programmed application. It can be loaded with a user specific sequence of frequencies with the ChipCard FTBFTB313. The device is battery operated. A sequence which has been loaded into the device remains there for use until it is overwritten with a new application. One application sequence can include 1 to 50 frequencies.

## Product highlights

- Operation with power switch
- Plastic enclosure
- Memory for individual applications with up to 50 frequencies
- Battery operated up to 4.5 hours
- Charge of battery via USB with charger (included) or computer
- Frequency bandwidth 1 Megahertz
- Frequency stability 30ppm
- Output level adjustable in 3 steps up to 12Vpp with on-off switch multiple functionality
- Output signal square dc-offset
- Time for application set by master (3 minutes per frequency default)
- Auto power-off after the application is finished
- Battery control
- LED for signal output
- Dimension: 106mm x 66mm x 29mm

## Shipment from the factory includes:

- F-SCAN MinDevice.
- Charger with USB to mini-USB cable.
- Sticky pads one set (4 pads) with application cable.
- Instruction manual.

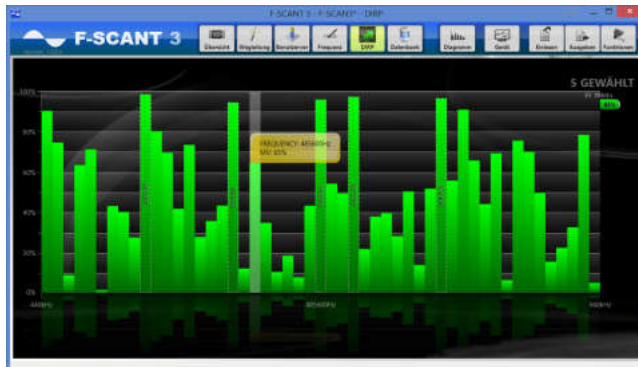
Weight: 260g                      TARIC:90308900

Price: CHF 382.45 (ind. 7,7% Swiss VAT).

Product design, specifications and prices are subject to change without prior notice.



## F-SCANT Software V3.x FTB318



### Brief description

All F-SCAN models are equipped with a serial communications port. If connected to a PC or Notebook, which has the software **F-SCANT** installed, the devices can be remotely controlled and operated. Computer display, keyboard and mouse substitute the input means of the devices. The **F-SCANT** software offers functions to manage customer data and frequency lists,

also comfortable search functions and tools to edit and analyse DIRP results. The computer adds its capability to print data and its almost unlimited storage capacity as a most welcome side effect.

### Highlights

- An on-screen info area provides a brief description of each active area of the program window when it is touched by the mouse pointer.
- Frequency lists from other sources (i.e. CAFL), and home made ones, can be imported into the software to broaden the data base to select applications from.
- A search function helps to identify items on all lists available if a frequency or a name is input as base for the search. Search results can be selected individually - or assembled as a group - for application.
- Results from several DIRP runs (DIRP-Layer) can be displayed simultaneously for comparison purposes. Each layer uses a different colour.
- All data can be printed on the system printer.
- An application prepared within the software can be transferred to an F-SCAN COMPACT attached to the system.
- The command "Read data from device" displays the content of the operating memory of an F-SCAN COMPACT attached to the system.
- Each step of a DIRP analysis can be displayed with its data and corrections made if wanted. All steps of the DIRP analysis are shown in a table.
- Zoom-functions may be used to evaluate the results of a DIRP-analysis.
- The run-time remaining for a DIRP analysis or an application is displayed.
- Client data can be stored conveniently or send to the system printer.

### Remarks

F-SCAN MOBILE, F-SCAN3 and F-SCAN COMPACT connect to a PC or Notebook with the USB cable shipped with the devices. The F-SCANT software searches for an F-SCAN device and connects to it automatically.

Price: License FTB318 for each device CHF 179.50 as Download (ind. 7,7%Swiss VAT).

Price: License FTB319 for each device CHF 199.25 on Pen-Drive FTB320 (ind. 7,7% Swiss VAT).

## F-SCAN Accessories

### Sticky pads

**FTB041**



For local application. Washable and re-usable. Size: 50 mm x 50 mm.  
Weight 25g, TARIC: 90189000

Price: CHF 20.00 (incl. 7,7% Swiss VAT).

### Imprinter

**FTB200**



The Imprinter can be used to transfer frequencies to water or globule. It can either be placed in the line between the F-SCAN and the user during an application, or, be attached with a single cable to the device. The Imprinter transfers frequencies up to 1 MHz (1.000.000 Hz).

Weight:115g, TARIC: 85444993

Price: CHF 156.20 (incl. 7,7% Swiss VAT).

### Stainless Steel electrodes

**FTB202A**



Handheld electrodes made of stainless steel for use with cable FTB208 or FTB308.

Weight: 200g, TARIC: 72209000

Price: CHF 81.00 (incl. 7,7% Swiss VAT).

### Finger sensor

**FTB203**



Interconnection cable finger sensor with dip for DIRP

Weight: 20g. TARIC: 85444221

Price: CHF 156.20 (incl. 7,7% Swiss VAT).



## Wrist- & Ankle band

**FTB205**

Wrist and ankle band electrodes are made from conductive textiles. They are adjustable and washable. They are less conductive than metal electrodes and application times should be about doubled compared to the ones used for metal electrodes.

Weight: 18g. TARIC: 85444993

Price: CHF 31.55 (incl. 7,7% Swiss VAT).



## Foot plate electrodes

**FTB207**

For applications in combination with other electrodes. Can be used together with handheld electrodes.

Weight: 750g, TARIC: 72209000

Price set of two: CHF 274.65 (incl. 7,7% Swiss VAT).



## Cable CINCH to 2x2mm

**FTB208**

For F-SCAN3. Weight:45g, TARIC: 85444221

Price: CHF 59.25 (incl. 7,7% Swiss VAT).



## Cable CINCH to 4x2mm

**FTB209**

For F-SCAN3. Weight:70g, TARIC: 85444221

Price: CHF 81.00 (incl. 7,7% Swiss VAT).

## EAP Measurements

## with EAP Set FTB211

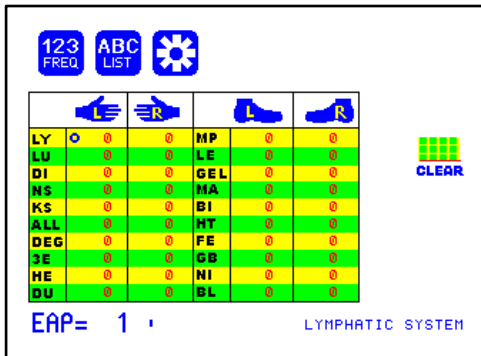


### EAP – measurements - electroacupuncture

The F-SCAN3 devices have a built-in EAP-measurement capability. The EAP STYLUS connects to the SENSOR port with a special cable. The conductivity value of Electro Acupuncture Points (Terminal Points identified by MORELL) can be measured with the STYLUS.

NOTE: WE RECOMMEND THE USE OF THIS OPTION ONLY AFTER EXTENSIVE TRAINING UNDER SUPERVISION OF AN EXPERT IN THIS FIELD OF DIAGNOSTICS.

One set includes stylus, special cable and one tray for swabs.



Price: License für F-SCAN3 including enable-code CHF 387.75 (incl. 7,7% Swiss VAT).

Weight: 205g, TARIC: 85444221

## Magnetic field electrode

## FTB214



The special round and flat Magnetic Coil Adapter generates a weak magnetic field which can be used to carry frequency signals generated by the Frequency Synthesizer from TB-ELECTRONICS into deeper regions of the body. The properties of the magnetic field promote the stimulation of the cell bodies where it penetrates the tissue. Since the magnetic field is modulated by the activated frequency, the stimulation is not global but selective. The Magnetic Coil Adapter handles frequencies up to 1MHz (1 Million cycles per second). The electrode may only be used on devices with PowerPort.

Price: CHF 91.55 (incl. 7,7% Swiss VAT).

Weight: 86g, Weight:45g, TARIC: 85059090



## USB-Cable

**FTB223**



For charge and data transfer. USB-(A) to 5-pole Mini-USB, length 1.2m.

Price: CHF 13.50 (incl. 7,7% Swiss VAT).

Weight:40g, TARIC: 85444221.

## Power-supply-charger

**FTB224**



For F-SCAN COMPACT , F-SCAN MOBILE and F-SCAN3 (Battery version) with EURO plug.

Price: CHF 21.55 (incl. 7,7% Swiss VAT).

Weight: 23g, TARIC: 84732990.

## Power-supply-charger

**FTB224U**



For F-SCAN COMPACT , F-SCAN MOBILE and F-SCAN3 (Battery version) with US plug.

Price: CHF 21.55 (incl. 7,7% Swiss VAT).

Weight: 20g, TARIC: 84732990.

## Laser Pen for Acupuncture

**FTB230**



For PowerPort connection only.

Price: CHF 194.40 (incl. 7,7% Swiss VAT).

Weight: 40g.

## Finger sensor

**FTB303**



Interconnection cable for F-SCAN MOBILE, finger sensor Clip for DIRP.

Price: CHF 156.20 (incl. 7,7% Swiss VAT).

Weight: 30g, TARIC: 85444221.



## Cable 3.5mm to 2x2mm **FTB308**

For F-SCAN COMPACT, F-SCAN MOBILE and MinDevice.  
Price: CHF 59.25 (incl. 7,7% Swiss VAT).  
Weight: 30g, TARIC: 85444221.



## Cable 3.5mm 5mm to 4x2mm **FTB309**

For F-SCAN COMPACT, F-SCAN MOBILE and MinDevice.  
Price: CHF 80.80 (incl. 7,7% Swiss VAT).  
Weight: 45g, TARIC: 85444221.



## DIRP Electrode **FTB311**

Interconnection cable for für F-SCAN COMPACT with DIRP.  
Price: CHF 134.65 (incl. 7,7% Swiss VAT).  
Weight: 145g, TARIC: 72209000.



## Silver Set **FTB312**

With the silver set it is possible to make your own colloidal silver with F-SCAN COMPACT or F-SCAN MOBILE or F-SCAN3. The glass (included) can be used for 100ml fluid. The silver rods are pure and inserted into a plastic support. Cable types FTB208 (F-SCAN3) or FTB308 (F-SCAN COMPACT and F-SCAN MOBILE) must be used. These cables are not included.  
Price: CHF 134.65 (incl. 7,7% Swiss VAT).  
Weight: 84g



## ChipCard **FTB313**

For program transfer to/from F-SCAN COMPACT, MinDevice, F-SCAN MOBILE and F-SCAN3.  
Price: CHF 27.00 (incl. 7,7% Swiss VAT).  
Weight: 7g, TARIC: 8542.3261.



## ChipCard PLUS **FTB313P**

For program transfer to/from F-SCAN MOBILE and F-SCAN3.  
Price: CHF 27.00 (incl. 7,7% Swiss VAT).  
Weight: 7g, TARIC: 8542.3261.



## Pen Drive **FTB320**

Multifunktions-Tool „Pen Drive“ mit 2 Gigabyte Speicher, Touch-Stylus für F-SCAN3, Kugelschreiber. Wird mit Software F-SCANT V3.x geliefert jedoch ohne F-CODE für Software License.  
Price: CHF 21.55 (incl. 7,7% Swiss VAT).  
Weight: 31g, TARIC: 85235110

# Comparison Table

- = not available
- ◐ = some limitations or optional
- = ok
- ∞ = Infinite
- = not applicable

\* F-SCANT software: The comparison table shows the potential of the software - the actual functions available depend upon the F-SCAN model connected to it.

	F-SCAN COMPACT	F-SCAN MOBILE	F-SCAN3	F-SCANT Software*
<b>Main Features</b>				
Aluminum housing	○	●	●	○
Color display	○	●	●	●
DIRP analysis	●	●	●	●
Application table integrated	○	○	●	○
EAP analysis on graphic display	○	○	●	○
Touch screen display	○	●	●	○
Acoustical confirmation of input and progress	●	●	●	●
POWER PORT for magnetic coil assembly – or light adapter	○	●	●	○
Number of integrated permanent storage positions	10/100	100	100	○
Number of external permanent storage positions (i.e.: MEMOSTICK)	10/100	100	100	∞
<b>Basic functions</b>				
WOBBLE (signal swings in narrow band around target frequency)	○	●	●	●
ENVELOPE (amplitude oscillates between 0 V and value of setting)	○	○	●	●
Input of random frequency	○	●	●	●
SWEEP (wide band application of frequencies)	○	●	●	●
Amplitude of SQUARE wave signals adjustable	●	●	●	●
Timer for complete application	●	●	●	●
Individual timer for each frequency of a sequence	○	●	●	●
Choice between FULL WAVE and DC-offset square wave signals	●	●	●	○
Graphic DIRP display	○	●	●	●
Automatic transfer of DIRP results to the operating memory	○	●	●	●
Automatic calculation of amplitude for square wave signals	○	●	●	●
<b>Special functions</b>				
Compare several DIRP results as overlays	○	○	○	●
Import of external frequency tables	○	●	●	●
DIRP-zoom	○	○	●	○
Store EAP data	○	○	●	○
Automatic transfer of DIRP values to application	○	●	●	●
Generate own frequency sequence	○	●	●	●
Select frequencies from a sequence manually	○	●	●	●
Number of output ports useable in parallel	1 (2)	2	2	○
<b>Accessories included</b>				
Application cable for electrodes	○	●	●	○
Gold plated electrodes (instead of stainless steel)	○	○	○	○
DIRP sensor cable	○	●	●	○
Touch screen pen	○	●	○	○
Application cable with 2mm pin connectors	○	●	●	○
5cm x 5cm pad electrodes	○	○	○	○
ChipCard	○	○	○	○
<b>Optional Accessories</b>				
UV-light adapter	○	○	○	○
Flat magnetic coil assembly	○	○	○	○
Foot electrodes (stainless steel)	○	○	○	○
<b>Technical data</b>				
SINE wave signal, min. frequency value in Hz	0,01	0,01	0,01	0,01
SQUARE wave signal, min. frequency value in Hz	0,01	0,01	0,01	0,01
SINE wave signal, max. frequency value in MHz	1,7	3	3	-
SQUARE wave signal, max. frequency value in kHz	100	100	100	-
POWER PORT, max. frequency value in MHz	○	1	1	-
Weight in kg (without accessories)	0,15	0,7	1,2	-
Max. peak – to – peak amplitude in Vd <sub>t</sub>	24	24	24	-
Operating power in Volt	BAT	BAT	15/ BAT	-
Current consumption in mA	220	350	350	-
Classification: Class 1, Type B, EN60601, Req. 93/42EWG	na	●	●	-