

SCIO/ EDUCTOR User Manual

This user manual was created by the SCIO/EDUCTOR manufacturer, Mandelay Kft. and is an official, required reference to the proper use of the device.

Special thanks go to Dr. John Kelsey, PhD, ND, who helped create the first version of this manual on which this current version is based.

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Important Note: It should be noted that the official version of this SCIO/EDUCTOR User Manual 200075 is always the latest revision (as shown by the letter following the title "SCIO/EDUCTOR User Manual control no -*letter*") and always the English language version.

The translated versions of the SCIO/EDUCTOR User Manual are completed as best as possible by qualified translators. However, Mandelay Kft. can only endorse the statements in the English language version of the SCIO/EDUCTOR User Manual. For the definitive statement always refer to the English language version.

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Welcome Letter

Dear Friends of the SCIO/EDUCTOR,

We would like to take this opportunity to welcome you to the newest wave in Universal Electrophysiological Biofeedback Systems. We hope that you are enthusiastic about joining the worldwide family of SCIO/EDUCTOR Users.

It is required to read through these pages before first connecting, turning on, or using your SCIO/EDUCTOR and to always keep this User Manual as a reference for future uses of your SCIO/EDUCTOR. This will assist you in using your SCIO/EDUCTOR.

Please read this User Manual thoroughly. Should you have any questions, please contact the representative from whom you purchased the device.

At the end of the manual you can find the Revision History which tells you what has been changed since the previous version. Please reference this to help you understand what has been changed. Please note the following:

1. The SCIO/EDUCTOR Software is included in your shipment from the Manufacturer, Mandelay Hungary Kft. in Budapest, Hungary on a pendrive. Also, you should get the SCIO/EDUCTOR Software **by downloading and activating the latest version of the software from our website, www.scio-educator.com**. Your Broker can help you through this process if it is your first time.
2. Our experience shows that the USB cable that connects the laptop to the SCIO/EDUCTOR should NOT be more than 2 meters long.
3. All users of the device must be registered on our official website www.scio-educator.com. This ensures that you get the latest information, news and updates regarding your device.

Furthermore, this revision of the SCIO/EDUCTOR User Manual includes the terms of the Warranty Contract. Please take a moment to familiarize yourself with your warranty, which is automatically initiated based on the shipment date of your device.

In our never-ending search for excellence, we work closely with many of our users in the improvement and expansion of the program. If, after you are familiar with the program, you find that the program does not perform a particular function you would like to use, please feel free to drop us a line with a thorough but concise explanation of what you would like us to consider adding to the program. All suggestions will be brought before the Board of Directors for consideration.

Our SCIO/EDUCTOR software is by far the largest and best software package in the field of Energetic Medicine today. However, it is not exempt from a few minor programming errors. Throughout the years we have found that most problems come from a faulty computer, a faulty installation of the Operating System, and in most cases from inappropriate computer maintenance. If you have any problems, please contact your Representative.

We urge you to try to get the best possible training regarding the use and applications of our system. The better you know our system the more benefit your clients are going to have. Please see our website www.scio-eductor.com as well as our conference website www.conference/scio-eductor.com for more information. Our system is the most sophisticated tool in the market but it can only perform as good as the therapist who handles it.

Welcome to the cutting edge in Universal Electrophysiological Biofeedback!!

Yours faithfully,
The Mandelay Kft.'s Team



Part 1 - What is the SCIO/EDUCTOR?

The SCIO/EDUCTOR is a universal electrophysiological biofeedback system. It coordinates a complex electro-modal, biofeedback program with computer software in order to gather bioenergetic information of a client's subconscious. The information is gathered from the body through electrodes in head and limb straps providing an accurate and precise picture of the client's general status. This information is selected and listed by the SCIO/EDUCTOR in order of the highest reaction and the stressors are analyzed in the course of a stress management session.

Part 2 - Scope

This User Manual is created by the manufacturer, Mandelay Kft. It supplies the basic information and operation of the SCIO/EDUCTOR software and device interface. This manual does NOT provide medical interpretation or medical advice in any way.

This is a basic User Manual instructing the user on how to get started with the device and basic important information.

Any statement within the manual is not intended to indicate a medical claim or diagnosis or therapy facility for a specific condition. The use of any facility described should not be considered as approaching or substituting in any way for medical advice, diagnosis or therapy. Clients and users of the SCIO/EDUCTOR should exercise due diligence in ensuring that they are informed and consult with a licensed healthcare practitioner.

Any statement within the manual is not intended to indicate a diagnostic claim. Only a licensed diagnostician can diagnose with any information available under the diagnostician's expertise. The device is for medical biofeedback therapy only. The device is intended for stress detection and stress reduction biofeedback therapy.

In all locations, independent of any specific wording or terminology, the SCIO/EDUCTOR system is designed with the sole purpose of:

- Assisting in facilitating the assessment and evaluation of stress that may be relevant to the client's wellbeing;
- Assisting in facilitating awareness within the organism of stress to help in the mobilization of the client's stress reduction resources.

Stress is a medical disease and concern. The World Health Organization's International Classification of Diseases #9 (ICD#9) lists 308.0 as Acute Reaction to Stress and 308.3 Stress, Acute Situational Disturbance, and the ICD#10 lists F43 Reaction to severe stress, and adjustment disorders and F43.0 Acute stress reaction, F43.1 as Post-traumatic stress disorder, F43.2 as Adjustment disorders, F43.8 as Other reactions to severe stress and F43.9 as Reaction to severe stress, unspecified. The opinion of the word "acute" is to be

made by the therapist or the patient and is not the responsibility of the manufacturer of the SCIO/EDUCTOR, nor this manual, nor the SCIO/EDUCTOR itself.

Part 3 - Indications for Use

The SCIO/EDUCTOR is indicated for use as a Universal Electrophysiological Biofeedback System. The Universal Electrophysiological System is made up of the following six Universal Items which are functions of the SCIO/EDUCTOR:

1. Simple EEG [electroencephalography measuring volts] brain wave stress reduction;
2. Three-pole ECG [electrocardiography measuring amps] simple heart awareness and stress reduction;
3. EMG [electromyography measuring volts and amps] for simple reeducation of muscles;
4. GSR [galvanic skin response measuring resistance] and TVEP [transcutaneous voltammetric evoked potential] (electrophysiological reactivity);

Since GSR requires a microcurrent voltammetric stimulation to measure GSR, then the microcurrent has the following secondary functions:

5. Microcurrent Transcutaneous electro nerval stimulation (MENS) for pain reduction in the cybernetic loop;
6. Pregnancy Stability Imbalance (detection of medical conditions);

The device is primarily designed for generating diadynamic waveforms that affect the special, deeper tissues. These obtainable types of current can be produced from DC and from superimposed pulse stream, but any waveform can be produced. We can get more waveforms by changing these currents to the right direction, by interruption or modulation. These forms:

- a. At initial stage of the various treatments, before applying any other diadynamic power. It serves for treatments of cardiovascular disorders, which are associated with the blood vessel spasm.
- b. To relieve pain
- c. Enhance of deep blood supply
- d. Cure neuralgia
- e. Skeletal muscle electro stimulation
- f. The treatment of the current of thyatron is mainly used for the stimulation of the central nervous system
- g. The interference current treatment irritates the low-lying parts, tissues.

The SCIO/EDUCTOR is for biofeedback use only. All claims are for biofeedback only.

Part 4 - Disclaimer

The SCIO/EDUCTOR is to be used as a universal electrophysiological biofeedback system. It is designed for stress detection and stress reduction.

The device does not diagnose any issue other than stress. Stress can come from many sources; this system uses many multimedia therapies to reduce stress. This device also measures client's electrophysiological reactivity which is another way to represent stress. Only a licensed healthcare practitioner can diagnose a client.

The system is calibrated to measure the very fine and subtle electrical reactions to a group of biological and medical stressors. The sensitivity is set so fine so as to pick up the earliest sign of distress and issues related to distress. Therefore, the results might be below the client recognition. The readings should be evaluated by trained biofeedback technicians. Always consult with a licensed healthcare practitioner. Always use additional tests or referrals. No claims other than stress detection and stress reduction may be made.

Part 5 - Client Safety

The information here is very important and this information should always be readily available. Following these important instructions is vital to ensuring safe use of the device. If you have any questions please contact your Representative.

Part 5.1 - Operation Instructions

- 1. Read all of these instructions in this User Manual.**
- 2. Save them for later reference.**
- 3. Follow all Warnings and Cautions marked on the product and included below.**
- 4. Unplug the device from the USB cable before cleaning it.**
- 5. DO NOT use this device near water.**
- 6. DO NOT place this device on an unstable cart, stand, or table.**
- 7. DO NOT allow anything to rest on the USB cord.**

Part 5.2 - Warnings

In following with the Essential Requirements of a medical device, Warnings must be clearly worded and stated to ensure the safe use of the device. Therefore, the following Warnings have been established based on our Risk Analysis and must be implemented in your use of the device. If you have any questions, please contact the Quality Manager of the Manufacturer, Mandelay Kft., directly.

- 1. Do not use on patients with epilepsy or a history of epilepsy.**
- 2. Do not use this device with a pacemaker.**
- 3. Do not use on patients with electrical hyper reactivity.**
- 4. Do not use over irritated, inflamed, red or broken skin.**
- 5. Do not use on pregnant women.**
- 6. Do not use on children under 18 years of age.**
- 7. Do not use on patients who are under the influence of drugs or alcohol.**

Part 5.3 - Cautions

In following with the Essential Requirements of a medical device, Cautions must be clearly worded and stated to ensure the safe use of the device. Therefore, the following Cautions

have been established based on our Risk Analysis and must be implemented in your use of the device. If you have any questions, please contact the Quality Manager of the Manufacturer, Mandelay Kft., directly.

- 1. Do not allow the metal part of the limb harnesses to directly touch the skin.**
- 2. Use caution with psychotic clients or clients with histories of electro-shock.**
- 3. Use this device with a computer on battery mode free from wall current or with a medically safe surge protector.**
- 4. Clean the harness after every use (especially when there is a suspicion of infection).**

Part 5.4 – Undesirable Side Effects

Mandelay Kft. has performed a Risk Analysis to mitigate any possible undesirable side effects that may arise from the use of the SCIO/EDUCTOR:

- A slight feeling of light-headedness after a session. Please note that this may be due to the patient's own health such as high blood pressure or the sudden standing up after being in a relaxed, reclined position during the session. If this feeling feels in any way abnormal or of a concern, then the patient should see their primary healthcare practitioner.
- Through biofeedback transcutaneous interaction with the CNS the SCIO/EDUCTOR may induce an autonomic nervous system cascade that can lead to a vasovagal crisis. The patient might sweat excessively, report nausea and dizziness. If this occurs, place a cool wet rag over the eyes gently with light pressure, tell the patient to relax breathe deeply, and wait about 5 to 10 minutes for the vasovagal storm to pass. In extreme cases there might be syncope.
- Some patients are highly sensitive to certain plastics, rubbers, or metals. These are usually people who do not wear a lot of jewellery and who do not use a lot of lotions or perfumes. Some patients could note a slight redness of skin where the harnesses are connected to the patient. If this is of concern, then the patient should consider returning for another session until they see their primary healthcare practitioner.

Part 5.5 - Harness rules and connections

The use of harnesses and/or accessories that are not part of the original registered device are at the user's own risk. Please see Appendix A "Accessories Policy" for a photograph of the original registered device including harnesses.

The connections are as follows:

- Black lead to left ankle
- Blue lead to right ankle
- Red lead to right wrist
- Yellow lead to left wrist



Head harness to forehead (or other body part when doing specific therapies) (with the strips in contact with the client forehead: it is not important which side the cable is- left or right).

It is best if the contact is with the skin: use of an electroconductive spray or lotion is recommended.



Part 5.6 - Harness Check List

Please check each time in the interests of your client the above warnings and cautions.

1. Explain to the client the straps, their position, and how long they will be present.
2. Check if the client has had a previous experience which makes them fearful or uncomfortable with straps (e.g. electroshock therapy).

Part 5.7 - Cleaning the Harness

Wipe clean the harness with a sterilising solution (3 to 5% peroxide dilute, 10% alcohol solution or equivalent) between each use. Avoid the use of strong cleaners that may damage the rubberized material. Periodically clean the harness with warm soapy water.

Part 6 - Electrical Safety

The device has been proven to be safe and effective to all internationally recognized harmonized standards. Here is some basic information on electrical safety to ensure that you are fully aware of how to safely and properly use the SCIO/EDUCTOR.

Part 6.1 - Electrical Safety Elements

It is current (amps) that can kill and not volts. House supply is 115 volts (USA) and 230 volts (Europe) AC (alternating current) but with 1 amp. 3 amps will usually kill a much smaller dose of even .2 amps directed through the heart can do damage.

The SCIO/EDUCTOR works at medically absolutely proven safe micro-current milliamps and has safety devices in the SCIO/EDUCTOR box to stop over-current and volts. The SCIO/EDUCTOR is powered by the USB connection to the computer and thus the possibility of harm from mains power supply is minimal: further measures are indicated below to conform with safety requirements.

Please use the SCIO/EDUCTOR with a computer on battery mode or with a medically safe circuit breaker surge protector.

It is fundamental and part of electrical safety legislation to protect the client from harm. This can come from two sources: that are impossible with proper use of battery or circuit surge breaker:

- (1) A short circuit, where electricity passes directly to earth/ground via the client. (e.g. a knife in the toaster)
- (2) A mains surge or lightning strike.

This cannot occur when the computer is operating on batteries. However batteries don't last for long in the computer (1-2 hours). Therefore, it is practical to work on mains power. This dictates that safety equipment is used. This is what is referred to as a "Medical Transformer". Essentially the protection can be afforded using specific components:

Short Circuit: a RCD (Residual current Device/Detector) or ELB (Earth Leakage Breaker), normally available at 30 ma.

Lightning/Mains Surge: a surge protector board, available from computer shops.

Part 6.2 - Connecting the System

Power supply

- 1 Plug the USB from the computer to the SCIO/EDUCTOR.
- 2 Connect the computer to mains power via the electrical safety devices.
- 3 From the Mains Socket, to the RCD/ ELB, to the Surge Protected Plug Board, to the Computer.

Part 6.3 - Cleaning the device

The device may be cleaned periodically as needed with a similar compound used to clean the harnesses. It is not necessary to clean the device after every client. To clean the device use either peroxide or alcohol. The recommended concentration is 10% alcohol or 3 to 5% peroxide solution for the harnesses and it is recommended to use the same concentration to wipe down the outside of the device. Please **ONLY** use this solution on the plastic sides of the device. The LCD display must be cleaned with special LCD cleaners, solutions or sprays.

Part 6.4 - X-ray Exposure

The device is designed to withstand some X-ray exposure. We estimate about 50 (fifty) normal X-ray checks. We believe that after 50 (fifty) X-ray exposures the device should be refurbished. Customers would notice limited recognition between device and software; lights will be dimmer than before which would suggest that it might be time for refurbishment. For options of refurbishment, please contact an Authorized Service Center under the Service Center Policy, which can be found on www.scio-eductor.com.

Part 7 - Copyright

The right of Mandelay Kft. as the author of this manual has been asserted by the company in accordance with Copyright, Designs and Patents Act, 1988, and all associated international protection.

All rights are reserved independent of the sourcing route. No parts may be reproduced, stored in a retrieval system or transmitted in any form by any means without the prior written permission of the author.

Part 8 - Accuracy

Every effort has been made to ensure the accuracy of the information provided. No information is intended to be used or should be used as a substitute for information from a licensed healthcare practitioner.

Part 9 - A Brief History of Biofeedback

Edmund Jacobson in 1908 developed the progressive muscle relaxation technique (1958). Although most of his research on the conditioning of muscle relaxation was conducted 50 years ago, it remains relevant. For example, most therapeutic applications of biofeedback include the use of a systematic relaxation technique. Although Jacobson's system has been modified over time, his ideas and research methods have much to offer clinicians and researchers. Based on an interview reported by McGuigan, he may have been the first researcher to use medical instrumentation to provide feedback about physiological responses (Jacobson and McGuigan 1978). His procedure, employing a prototype of modern biofeedback instrumentation, involved an individual observing an oscilloscope to determine the level of tension in his forearm extensor muscle. Later, Wolpe (1973)

modified Jacobson's technique and popularized it as part of the systematic desensitization procedure.

In 1958, Kamiya (1969) began to study the changes in Consciousness that accompanied variations in EEG alpha rhythm of human subjects. He developed a discrimination conditioning task in which a bell was rung periodically and the subject was requested to indicate if he had been generating EEG alpha just prior to the auditory stimulus. Many subjects were able to learn this task and this led to further research of alpha rhythm control. Kamiya and his associates later discovered that subjects could suppress alpha when given auditory feedback concerning its presence or absence. Although the initial claims of alpha wave trainers were found to be exaggerated, research by Kamiya and others continues and may eventually lead to the development of more effective clinical methods. Due to the unpredictability of the results so far, the clinical utility of EEG alpha rhythm training remains problematic (Miller, 1974).

Ancoli and Kamiya (1978) reviewed several areas of controversy surrounding EEG biofeedback. For example, one unresolved issue is whether or not the reported increases in EEG alpha are due to reductions in visual and oculomotor responding. Ancoli and Kamiya reviewed 45 different EEG biofeedback studies from 1968 to 1976 and concluded that a majority of the studies suffered from methodological weaknesses. They believed that many negative results occurred because training times were too short and experimental conditions were not optimum. They suggest that, in the future, researchers should employ at least 4 training sessions, use continuous feedback with quantitative progress scores and use experimental trials which have a duration of at least 10 minutes.

One of the intriguing areas of investigation concerns the search for empirical validation of visceral or smooth-muscle operant conditioning. Since 1938, when Skinner could not demonstrate operant conditioning of the vasoconstrictory responses, researchers have been interested in this area of learning.

Neal Miller and his colleagues most notably, (the late Leo DiCara) have been involved in research on instrumental autonomic conditioning in animals for a number of years. In 1968, DiCara and Miller observed that curarized rats could learn to avoid a shock by lowering their heart rate. Miller's attempts to replicate this finding in subsequent years, however, met with frustration. Nevertheless, during this time other investigators showed that visceral conditioning, through the use of feedback techniques, could be demonstrated in man (Miller and Dworkin, 1974).

Whether or not Miller's original findings were artifactual or due to complex interactions of variables are still undetermined. There is no doubt, however, that the publication of his early research on visceral conditioning in animals did much to stimulate others to investigate similar issues in man, and more sophisticated biofeedback techniques were developed.

Although less well known, H D Kimmel (1960) spent years investigating instrumental conditioning of the autonomic nervous system (ANS) in man. Stimulated by results of earlier experiments in conditioning of the galvanic skin response (GSR), Kimmel and his students found that subjects' GSR's could be conditioned using pleasant odors. Kimmel (1974) summarized the research up to 1967, including 16 studies of GSR, five of heart rate

and three of the vasomotor response. Results of all these studies supported the contention that the ANS could be modified through operant conditioning.

These findings were criticized by Katkin and Murray (1968) who argued that such results may be due to skeletal mediators and have still obtained positive results. For example, Lang and Melamed (1969) were able to condition aversively a 9-month-old child who suffered from ruminative vomiting. In addition, Frezza and Holland (1971) demonstrated that human salivation can be instrumentally conditioned.

Subsequently biofeedback procedures were applied to clinical problems. In 1973, two innovative therapy procedures were developed which are widely used today, with certain technical refinements. Elmer and Alyce Green (1977) developed a clinical protocol for thermal feedback training. They used peripheral skin temperature as a measure of vasodilatation and combined skin temperature feedback with Schultz and Luthe's (1969) "Autogenic Training". Sargent, Green and Walters (1972) applied temperature biofeedback training to treat migraine. Clients were taught to increase the warmth in their fingers (vasodilatation) while decreasing the temperature of their foreheads (vasoconstriction). They found that almost 75 percent of the subjects were able to decrease both the duration and intensity of migraine attacks. Later studies have confirmed these results.

While the Green's were developing their therapy technique for migraine, Thomas Budzynski (1973) and his associates at the University of Colorado developed a feedback technique to treat muscle contraction (tension) headaches. They used EMG training to teach clients to reduce the tension in their frontalis (forehead) muscles. Their results showed that average muscle tension levels dropped from 10 to 3.5 (microvolts) and headaches intensity was reduced over the 16-week training period. Two control groups of headache clients were employed in the experimental design; one group received "false" or pseudofeedback and the other group received no feedback at all. Neither of these groups improved as much as the EMG therapy group. Since then, the results have been somewhat mixed regarding the effectiveness of EMG biofeedback compared with simple relaxation methods.

The clinical research which has been reviewed thus far has involved procedures where feedback is used to reduce muscle and blood vessel contraction ("physiological arousal"); however, a technique to increase muscle contraction (a form of EMG biofeedback training) has existed for almost 25 years. John Basmajian's (1979) early research, first published in 1963, indicated that clients can increase the functioning of single motor units through the use of EMG biofeedback. Even earlier, Marinacci and Horande (1960) demonstrated that EMG feedback could be applied to improve neuromuscular functioning in several disorders. Basmajian and his colleagues have designed specially constructed biofeedback instruments for use in rehabilitation, e.g., a miniature EMG feedback device. They have applied such instrumentation to various disorders including paralytic foot-drop. There is significant difference between the EMG units used in rehabilitation and those adapted for use with psychophysiological disorders. The biofeedback units employed in rehabilitation are designed to transmit information about single motor units or the functioning of a specific muscle. Most of the EMG units used to enhance relaxation, however, summate the bioelectrical information of a particular muscle group. The resulting feedback is somewhat less specific.

Prior to 1970, relatively few studies were conducted using biofeedback techniques. Since then, however, hundreds of investigations have been done and the accumulation of data has been impressive. For this reason, BSA task forces were developed to survey the current literature and summarize the current status of biofeedback as a therapeutic technique in a number of areas including: psychophysiological disorders (Fotopoulos and Sunderland, 1978), gastrointestinal issue (Whitehead, 1978), vasoconstrictive disorders (Taub and Stroebe, 1978), muscle tension headache (Budzynski, 1978) and others.

In 1989 Nelson proposed and proved that biofeedback need not be just a conscious or verbal process. By biofeedback transcutaneous interaction with the body electric or CNS (central nervous system) the system can autofocus TVEP (transcutaneous voltammetric evoked potential) stimulation. The SCIO/EDUCTOR was designed to do biofeedback transcutaneous interaction to the client's CNS.

In summary, individuals in certain circumstances can learn to control various physiologic processes as a result of biofeedback training.

Neuroanatomical and Physiological Basis of Biofeedback

Neurophysiologists and clinical neurologists are aware of the fact that the brain acts as a CNS whole unit and that the functioning of each and every part of it affects the performance of most of the other parts. Clearly, however, certain areas are more closely allied than others by anatomical or physiological links. Also, there is a localization of function such that the different regions of the brain are specialized for certain activities and although their role can be substituted to a certain extent, they operate most effectively only when carrying out their particular function. Broadly speaking, the tasks of the brain can be divided into three great categories:






1. The reception of stimuli (this is the sensory system)
2. The association of stimuli and the analysis of perception of incoming stimuli
3. The motor response to those stimuli, or the autonomic response to internal and external stimuli.

This is the end of a very brief history of Biofeedback. If you are interested in researching this topic further there is numerous information available.


Part 10 - Symbols

As you look at the biofeedback box itself, you will see the following symbols. Here is an explanation of the meaning of the symbols.

On the bottom:

	Symbol for “MANUFACTURER”
[yyyy] 	Symbol for “DATE OF MANUFACTURE” with year of manufacture.
#####-[x]	Control number for the label followed by the revision number.
	Symbol for “CONSULT INSTRUCTIONS FOR USE”: means that it is imperative that users read this SCIO User Manual before using the device for the first time and as a reference for all future uses.
	A CE Mark is issued by a Notified Body, as identified by the four-digit number next to the CE Mark. The four-digit Notified Body number can be found on the CE Certificate.
	The symbol of the crossed out wheeled bin: this is a marking of electrical and electronic equipment.

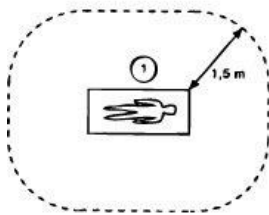
On the back:

	TYPE BF APPLIED PART: It stands for the classification of a permissible filtered current as well as assurance of grounding for safety regarding this current.
---	--


The Serial Number found on the back of the device is in the following format

- SCIO device: SNGxxxxxxxxxx
- EDUCTOR device: EXxxxxxxxxxx.

Only to be included in this User Manual as these are only a recommendations and not requirements:



For the best optimum performance, it is recommended to keep any other electronic equipment such as cell phones, radios, electro-static air cleaner and other such devices, a minimum of 1.5 meters out of the device's radius. This will reduce the potential for outside interference. However, it is possible to keep the operating computer within this 1.5 meter radius, with the recommendation that the Wi-Fi ability of the computer is turned off.

Disturbances are possible near devices with the following symbol: 

Part 11 - Computer Specifications for the 'CLASP64'

This page will inform you about computer memory size, speed, and other requirements that are best compatible with the SCIO/EDUCTOR.

Part 11.1 - Cache and RAM (Random Access Memory)

The difference between the different CPUs (Central Processor Unit) is the speed, and the cache (The memory built into the processor itself). An AMD* CPU normally will perform faster than an Intel** CPU at the same speed. The Celeron*** CPU normally has less cache.

The 'CLASP64' software will first look for the space it needs to perform in the cache memory, this is extremely fast. If it does not find enough space it will go to memory built into the memory on the motherboard, slower but still fast (This is the RAM). If it still does not find the space there it has to go the hard drive (Slow) and execute the instructions. This however will only happen with the 'CLASP64' software at very low RAM (e.g. 512 Mb). Thus the program may run but slowly. However, this is NOT recommended at all.

The 'CLASP64' software is a large application program running in real time. The Operating System 'Windows' does not run in real time. The 'CLASP64' software sends a signal to the box then box starts to generate the appropriate frequencies and then this is showed on the LCD screen. The 'SCIO/EDUCTOR' includes its own processor to be able to do this, thus the CPU of the computer is free.

The computer needs a high resource capacity, because the 'SCIO/SCIO/EDUCTOR Software' Database (the core of the program), uses the 'SQ Lite Database engine'. Due to the phenomenal amount of information generated, the database engine has been stretched to its maximum capabilities. Other aspect is the image generated animations, these require a lot of resources. The specifications focus on the RAM but 'Cache' must be taken into consideration.

* **Advanced Micro Devices:** Global supplier of integrated circuits for the personal and networked computer and communications markets headquartered in California, USA.

** **Intel:** American electronic corporation headquartered in California, USA. It is the World's major producer of a variety of electronics and computer components (including semi conductors, microprocessors, chipsets, and more.

*** **Celeron:** New computer processor from the Intel Corp. Slower than the Pentium chip, it was designed for the home computer market in the lower price range.

Part 11.2 - Computer Specifications

- It is advisable to dedicate a laptop to the program. However, if this is not possible then it is highly recommended that no other programs of medical nature be installed as conflicts have been reported in the past. It is advisable to only install the recommended software and to follow the 'Computer preparation' instructions.
- If possible, avoid the cloned types as many problems have been reported due to their architecture, their timer chips and in some cases the cheap components.
- It is recommended to have minimum an Intel core i5 CPU, the optimal running is with Intel core i7. Try to avoid Celeron, because of the less 'cache' factor.
- The program itself requires about 10 GB of hard drive space for installation. Always maintain at least 10 GB free in the hard drive so that regular maintenance can be carried out.
- 8 GB of RAM is recommended.
- The 'SCIO/EDUCTOR' has a USB port. You may be connected directly using a USB cable. To install the USB Cable, please see the page "USB – to – USB Cable Installation Instructions."
- Monitor TFT/XGA****: Pixel size must be set at 1280x1024 or higher for optimum viewing of the 'CLASP64'.
- Video and Sound cards are required with a minimum 128 MB memory available.
- The following Operating Systems are recommended: Windows 7, or Windows 8, Windows 8.1, Windows 10.

NOTE: Due to changes in computer technology, the information above may change without notice.

**** **TFT/XGA:** Thin Film Technology / Extended Graphics Array, which allows displaying up to 65000 colors

Part 12 - Computer Preparations for the 'CLASP64' software

Once the 'CLASP64' software has been installed and activated as well as the recommended programs installed it is advisable to execute this routine so that the computer stays tuned up to better run the 'CLASP64' software.



Part 13 - Installation & Activation

Procedure – SCIO/EDUCTOR

Please read thoroughly before loading the 'CLASP64' software program into your computer. The most current version of the 'CLASP64' software is always available on www.scio-eductor.com. These instructions specifically relate to the most current version of the program. Furthermore, there are numerous Video Tutorials available on www.scio-eductor.com for easy reference on the Installation and Activation Procedures.

Part 13.1 – Registration of the device on the www.scio-eductor.com website

- Go to www.scio-eductor.com and click on “Log in” on the top menu bar
- Login with your email and password
- Click on “Order System” and select “My devices”
- Click on “Assign a Device to my Account”
- Fill in the necessary information in the edit boxes
- Upload the pictures required by drag dropping them into the upload field
- Click “Save”

Your application will be reviewed by our administrators and you will be notified by email when the device assign is complete.

Part 13.2 – Online Activation

In order to provide a more professional service to our customers we are now able to offer 24 hour internet activation. Please follow the instructions below and if you have any difficulties please contact you broker for assistance.

These instructions are for users to activate their own software online. If you do not have internet access please contact your broker.

1. Register on www.scio-eductor.com – **Sign up!**
2. Run the SCIO/EDUCTOR Software by clicking on the 'CLASP64' icon on the desktop.
3. Click 'Close' on the 'SCIO or EDUCTOR Is Working' screen when the program reaches 25%.
4. On the following screen, please click on „Continue”.
5. Then click on „Password”.
6. If this is your first activation on the laptop/desktop, right after the installation, please enter your name and country in the „Password” screen and then click on „I agree to all terms and save”.
7. Read the installation instructions than click on „Close” in the „Biofeedback device installation instruction” screen.
8. On the „Password” screen click on „Activation”.

9. In the 'Activation window' please enter your www.scio-eductor.com Username and Password and click on „Send to the Server". On the following screen will pop up a window with the following message „Your computer is activated, Congratulations". Click on „OK" to proceed.
10. On the next screen will pop up another message “You have entered the right code, congratulations...”. Click „OK" to close the program.
11. The Software is now active and ready to use.

Part 13.3 – Installation

The Software can be installed either directly after downloading it from the www.scio-eductor.com or from the USB memory stick you received in your device package.

1. If you used the 'Mandelay_Downloader.exe' to get the latest version of the software please click on **Download and Install CLASP 64 Software** to start installation.
2. If you install the software from the USB memory stick, please insert it into your computer then locate the CLASP 64 Software on your stick. Find the Install.exe and double-click on it to initiate the installation.

Part 13.3.1 Downloading the Clasp64 software from our official website www.scio-eductor.com

To download the newest version of the Clasp 64 software, we created a simple tool that allows you to download the software for the USB SCIO or EDUCTOR device.

Please follow the steps outlined below to download the Software:

- Open a web browser (Internet Explorer or Mozilla Firefox).
- Go to the www.scio-eductor.com website and log in.
- Click on 'Downloads' on the top menu bar of the website and select 'Software's + tools'.
- Download the 'Mandelay_Downloader.exe'.
- In the pop-up window click on 'Save file' or click 'Run' if the option comes up.
- If you clicked on 'Save File', run the downloaded 'Mandelay_Downloader.exe' file by double clicking on it in the download window.
- Log in with your username and password you are registered on www.scio-eductor.com website, and click on 'Login' button.
- First click on **Download and Install CLASP 64 Software**, after the download is complete the text will change to **Install CLASP 64 Software**.
- When installation is complete, you will have the option to install right away by clicking the Install CLASP 64 Software button. If you wish to install later, just close the program and re-enter when you want to install it. You will see an Install button below the software you downloaded.
- If the Mandelay_Downloader.exe' is closed in the middle of the download for any reason (Internet fails, computer restart etc.) just restart the Mandelay_Downloader.exe' and click on Download again. Installation will proceed from where it left off.

You can proceed to install your Software!

Part 13.3.2 Installing the Clasp64 software from the USB memory stick

- Select **I accept the agreement**, then click 'Next', then on **Next** two more times. After that, please click on **Install** button.
- When the installation is finished, there will pop up another installation window to install the **Borland Database**. Click on the Next button four times and then on the Install button to start the installation (everything is set automatically, please don't make changes). On the next screen it will pop up another window which will show you the directory where the **Borland Engine** will be installed. Click on the OK button, then on the Yes button on the next window to create the directory. After the directory is created click on the Finish button
- On the next screen you will see the automatic installation window for **DivX Codec Setup**. Click five times on the Next button (please don't make changes in the directories) then on the following window on the Yes button to Accept the License Agreement and to initiate the installation. There will pop up two more windows that you will need to close: DivX Player and DivX Codec. Click on the red X on the top right corner of the window to close them. After that click on the Close button to finish the installation of the DivX Codec Setup.
- After this there will pop up one more window to **select the device** you will be using. Select the image with the proper device, then enter the serial number the same way as it is shown on the device and click on the OK button.
- After this will pop up another window which will **install the proper driver for your device**. To start the installation, click on the Next button, on the following pop up window click on the Install button, then on the Finish button.
- There will pop up another window which will show the **end of the installation**. Click on the Finish button to end the procedure.

Part 13.4 Turning off the User Account Control

Part 13.4.1 Turning off the User Account Control in Windows 7

- Log in as an administrator. You must have administrator access in order to change the UAC settings for any account.
- Click the Start menu and type UAC
- Select "Change User Account Control settings" from the list of results.
- Use the slider to adjust the UAC level. There are four UAC levels. The highest will notify you every time a program attempts to make changes to your computer or you change your Windows settings. The second-highest will only notify you when apps attempt to make changes. The third is the same as the second except that your desktop won't dim. The bottom setting won't notify you for anything. Please set the slider to the bottom one in order to turn off UAC.

Part 13.4.2 Turning off the User Account Control in Windows 8 and Windows 10

- Go to the Search Charm and type “Change User Account Settings”
- Use the slider to adjust the UAC level. There are four UAC levels. The highest will notify you every time a program attempts to make changes to your computer or you change your Windows settings. The second-highest will only notify you when apps attempt to make changes. The third is the same as the second except that your desktop won't dim. The bottom setting won't notify you for anything. Please set the slider to the bottom one in order to turn off UAC.



Part 14 - Necessary Programs for the 'CLASP64'

This page details programs you need to have on your operating system. This can be done either before or after installing the CLASP64 Software.

1. Necessary:

- a. **DivX Player and DivX Codec:** Please visit the website www.divx.com and download DivX 7. Please see the page "Installation and Activation Procedure." These are necessary to visualize some of the videos in the 'CLASP64' and in particular those included in the 'Biofeedback' section.
- b. **Microsoft Word.** This program is necessary to visualize the great amount of written information available in the 'CLASP64.' There are some documents that will guide you through the "CLASP64."
- c. **Internet Explorer 4 or later Web browser.** This program is necessary to go through the Online Activation process.
- d. **Adobe Reader 7.0 or later.** The free version can be downloaded from www.adobe.com. This software is the global standard for electronic document sharing. It is the only PDF file viewer that can open and interact with all PDF documents. Use Adobe Reader to view, search, digitally sign, verify, print, and collaborate on Adobe PDF files.
- e. **Notepad.** With this program users can write small notes and open small documents.

2. Not vital but helpful:

- a. **Microsoft Office Suite.** Besides 'Word' (Text editor), it contains 'Access' (Databases), 'Excel' (Spread sheets), 'PowerPoint' (Presentations).
- b. **Norton Utilities.** This program is very useful to maintain the computer 'tuned up'. We have noticed that the great compatibility of this program with the 'CLASP64'.
- c. **Norton Antivirus.** This program is necessary to keep the computer free of viruses. It is important to remember that this program or any other anti virus program must be installed after the CLASP64. It is always necessary to use an anti-virus and a 'utilities' program from the same manufacturer as conflicts may arise. Again, we recommend Norton Anti-Virus and Norton Utilities.

Part 15 - USB-to-USB Cable Installation Instructions

Note that the SCIO/EDUCTOR does not need an external power source as power is drawn directly from the computer.

Note that the MAXIMUM recommended length of a USB cable is 2 meters (6 feet 7 inches). A USB cable longer than this will most likely reduce the communication between the operating laptop and the SCIO/EDUCTOR.

The USB driver is automatically installed with the main software when is installed on the computer. Please follow the next steps in order to set up the USB driver:

1. Plug in the USB-to-USB cable (It is necessary that the SCIO/EDUCTOR is connected at this point).
2. The 'Hardware installation wizard' will advice you of the new hardware and its dialogue box will pop up.
3. The dialogue box will ask you if you want to connect to the Internet. Select the last option 'No, not this time'. The button 'Next >' will activate. Click on it.
4. The 'Found New Hardware Wizard' dialogue box will appear. Select the 'Install from a list or specific location' (Advanced) option. Click 'Next >'.
5. Select 'browse' and search for the folder drive C and inside there for CLASP64 folder. Select the USB driver folder. Click OK. Click 'Next >'.
6. A second dialogue box will pop up to let you know that the software being installed is not a 'Microsoft' production. Click on 'Continue Anyway'.
7. Once the installation is complete click on the 'Finish' button.
8. The 'Hardware installation wizard' will pop up again and its dialogue window will appear again. Please repeat procedure.
9. In the 'Windows task bar' the message 'Your new hardware is installed and ready to use' will appear.

Continue onto the next step, "Configuring the SCIO System's Communication Port (COM Port)."

Part 16 - Configuring the Port

At the Device manager in case of SCIO select COM 1. In case of EDUCTOR this step is not needed. Start the CLASP 64 Software and proceed to activate the software.

Part 16.1 Configuring the SCIO System's Communication Port (COM Port) in Windows 7 or Earlier

Please note this version of the software is not compatible with earlier version of Windows 7.

Before setting up the COM Port, please make sure the driver of the device is properly installed. The following steps will guide you to set the communication port to COM1:

- Right click on the 'Computer' icon on your desktop. If you cannot find this icon on the desktop, open the 'Start menu' and look for the 'Computer' icon there and right click on it.
- From the drop down menu please click on 'Manage'.
- Please click on 'Device Manager' on the left side list.
- On the right side please search for 'Ports (COM & LPT)' and double click on it.
- If you have a SCIO USB to USB , you will see the 'USB Serial Port (COMx)' driver (x is a number). If you have a Serial to USB SCIO, you will see the installed USB to Serial converter cable's driver.
- Please right click on the driver and choose 'Properties' from the drop down menu.
- Choose the 'Port Settings' tab in the next window.
- Click on 'Advanced...' button.
- You will now see a 'COM port number:' label and a COMx next to it in a list box. Please set it to COM1 and click on 'OK'.
- Click on 'OK' again and then close the 'Computer Management' window.

You have now successfully set up your Communication Port!

Part 16.2 Configuring the SCIO System's Communication Port (COM Port) in Windows 8, 8.1 or Windows 10

Please follow the steps below to configure the COM Port:

- Type "Device Manager" in the search function of the Windows
- Click on Ports (COM & LPT)
- Right click on USB Serial Port (COM x)
- Click on Properties
- Click on Port Settings tab
- Click Advanced
- Change the COM Port Number to 1
- Click OK and close the window

You have now set up your COM Port!

Part 17 - Important Procedure before Activation

The Interface program is automatically installed with the main software on the computer. (The Interface Type must be set before the activation).

In case you missed the setting you can find it on your desktop.

The following steps will guide you on how to use this program:

- Double click on the 'Interface Type Selector' icon on your desktop screen.

- Select the device type and write in the serial number of your device, then click 'OK'.
- Now you can move on to the final step, activation of the software!
- You only need to do this one (1) time.
- If you select the wrong type or change your interface box simply repeat this procedure. This is necessary because each interface box uses a different 'Baud' rate.
- In case you purchased SCIO and EDUCTOR as well than you have to repeat this procedure every time you switch between the devices on the same computer.

Part 18 - Getting Started

Please see the steps below how to get started:

1. It is important you have a computer which is purchased according to the specifications given at Part 11.
2. Make sure you have internet connection and enough space on your computer. In case you need remote support please download Team Viewer and install it. (For further instruction please read How do I download TeamViewer for remote support)
3. A. In case you have received a USB memory stick with your purchase please insert it into the computer's USB connection port and locate the software you need to install and start the procedure. (please don't change the automatically set directory) where the software needs to be installed.
B. In case you are downloading the software from www.scio-eductor.com make sure you are registered on our website. If you are not yet, please go to www.scio-eductor.com, click on Login button and on the popup window click on Create an account and follow the steps than download the 'Mandelay_Downloader.exe', run it, start to download and install the software. (please don't change the automatically set directory) where the software needs to be installed.
4. Connect the SCIO or EDUCTOR device to your computer and switch it on.

At the Device manager in case of SCIO select COM 1 (for more help please read **'Configuring the SCIO System's communication port (COM port) in Windows 7 or earlier'** article. In case of EDUCTOR this step is not needed. Start the CLASP 64 Software and proceed to activate the software.

The SCIO/EDUCTOR is a highly intricate and complex system and time should be taken to learn and understand the system. Here are some suggestions to help you get started, broken down in the following sections:

- Perspectives on Starting with the Program
- Basic Principles for Navigation
- Core Elements to Practice
- Basic Principles for Clients
- Timeframes

Part 18.1 - Perspectives on Starting with the Program

We recommend that you keep in mind that the benefits of the SCIO/EDUCTOR are due to the advances in science and technology. It is important to be comfortable with how to use a computer and navigate through the software. We highly recommend the following steps to success with your SCIO/EDUCTOR:

1. If you have no computer experience we suggest you do a short local course in Windows. Computers are not difficult but the unfamiliar is often a little daunting! Taking time to learn Windows is time very well spent and will accelerate your use of the program.
2. Learn to navigate the program.
3. Practice, practice, practice.
4. Take advantage of the home study and on-line distance learning facilities available from many independent sources.
5. If possible get some live training.
6. There is no learning substitute for real practice.
7. Representatives are authorized to create their own training manuals and multimedia to assist in the learning process, but this User Manual is the top level manual from the Manufacturer and must always be referenced as the official reference for all users.

Part 18.2 - Basic Principles for Navigation

Here are a few suggestions towards understanding some basic principles of navigation:

- Focus on Navigation
- Don't spend hours in one sitting: you will become saturated, fascinating as it will be!
- You can learn the software without having anyone in harness.

Part 18.3 - Core Elements to Practice

We suggest that you take some time to practice these core elements of the SCIO/EDUCTOR. Once you feel comfortable with these then you will be ready to go further with the SCIO/EDUCTOR.

- Opening the program
- Password Screen
- Demographics: lifestyle
- Calibration
- Testing: getting a focus: Themes
- First layer general stress balancing
- Second layer stress balancing
- Third layer stress balancing – specific areas of focus

Part 18.4 - Basic Principles for Clients

When meeting with Clients, here are some **suggested** principles to keep in mind.

1. Always do Demographics. Energetic type therapies will work much better with lifestyle support. Play with the numbers and recalculate the SOC to show the Client the changes needed to get the SOC down to between 100 and 50. Guide your Client to set goals.
2. You can do Fast Track Calibration.
3. More is not better – keep the sessions with your Clients to approximately 50 minutes. But be flexible and use your own intuition and client interaction to finally decide what is best for your client.
4. Here is a suggested session guideline:

Step	Function	Timing
1	Demographics and briefing session on what to expect	7 minutes
2	Calibration	2 minutes
3	Test and assay	6 minutes
4	Stress Reduction muscular Re-education Support	20 minutes
5	Miscellaneous multi-media biofeedback therapy	5-10 minutes
6	Discuss and debrief the Client lifestyle changes and support needed	5-10 minutes
Agree on targets for the next visit(s)		TOTAL TIME 50 minutes

Part 18.5 - Timeframes

These timeframes are suggested and you should decide on an individual basis what is best for you and your Client.

You can do Software Practice with a fictitious client as long as you wish within your comfortable timeframe of learning and practicing.

With Clients for basic stress detection and stress reduction we suggest weekly meetings of 50 minutes per session. During these sessions you can focus on basic therapies such as those listed above under “Basic Principles for Clients.”

With Clients for acute stress, you can meet 2-3 times per week but still keep the sessions at a maximum of 50 minutes per session.

With Clients for chronic stress, we suggest the guidelines of Acupuncturists who see Clients weekly for 6 weeks and then review. Still keep the sessions at maximum of 50 minutes per session.

With all patients discuss lifestyle changes, such as supplement assistance, exercise programs, stress reduction therapy, network and social support themes, guided imagery, yoga, weight loss, smoke reduction, muscular reeducation, diet choices what to use what to avoid, say no to drugs, addiction release, and how to best grow and heal the body naturally.

Part 19 - Practicalities

The following practicalities will be helpful in using the device and also in some troubleshooting solutions.

Part 19.1 - Accessing the Functions

There are several methods of initiating and terminating operations within the device:

- *Buttons*: clicking on these will initiate an action
- *Edit box*: information can be added into these by typing or in some screens by double clicking on an item. Edit boxes can have information altered in them in the same way as any text or word processing i.e. using backspace/delete keys etc.
- In many cases button functions are duplicated in *drop down lists* from the top program toolbar. Moving the mouse to the drop down list will generally open it up. Clicking on an item in the list will initiate the described action i.e. therapy or routing to another screen.
- In some screens single or double clicking on an item will initiate a therapy.
- In many cases the label for an item e.g. test may contain an underscore e.g. T. In these cases typing the letter T (or Alt. T) is an option to initiating the action.
- To further assist when a mouse is moved near a button or a picture on the screen a small hint will often appear for 3 seconds.

Part 19.2 - Frozen Screens

During periods of extended use or with a reduced specification system lock up or screen freezing may occur. It may seem unable to exit a screen.

1. Try minimizing the screen using the “-” at the top right. This may reveal an information panel below. Close this. This appears to happen mainly with Windows XP.
2. If you have minimized a panel it will show as “Consciousness” on the bottom toolbar. Click to restore the view and close the minimized panel.
3. There may be an SCIO/EDUCTOR operation in progress: this will disable Windows. A red Windows Interrupted and/or SCIO/EDUCTOR is Working panel will generally show. Wait until this disappears. At times this stays: if you are sure that the operation has finished then double click in the top right corner to remove the panel or use the close button on the interrupt.
4. You have played with the mouse when there is aN SCIO/EDUCTOR operation (Windows Interrupt). This can confuse the system leading to a lock up. Ctrl-Alt-Del is your only option- this will display Task manager. Select “Consciousness” in the Applications tab and “End Program”. During reloading you will be asked if you want to restore the last client: saying yes will restore all the client information. Enter password details as normal, ensure that the correct client displays in Demographics and proceed from where you left off.
5. If this fails use the task manager to close down the computer.

6. The final port of call is to use the power button to close down the computer (crashing). Hold the power button for 10+ seconds until it shuts down.

Part 19.3 - Restoring a Client

This part is only applicable if the program crashes and is closed by using the closing function of Task Manager. If you then need to restore a client you will be given this opportunity on restarting SCIO/EDUCTOR. As it opens you will be asked if you want to restore the last client: answer yes. Enter password details as normal, ensure that the correct client displays in Demographics and proceed from where you left off.

There are also prompts after calibration just to access the last client data on the info panel. The scores are correctly restored but the colour banding is often considerably altered.

Part 19.4 - Biofeedback and Demonstration Versions

The program as received carries the message *Bio Feedback and Demonstration Version* only. An activation process which uses a code to enable the more extensive facilities to be accessed is available from your Representative.

Part 20 - Checking the SCIO/EDUCTOR Interface

The SCIO/EDUCTOR interface contains the digital interface device, a microprocessor and connects together the necessary cabling. The power for the LCD screen at the EDUCTOR originates from the USB connection, which draws on computer power. The LCD's have a very long life and generally do not fail. If the LCD is not functioning, there may be a problem with the computer settings (and not with the device). Check that the UAC is turned off (as explained in Part 13.3 above) and check that the COM port settings are correct (as explained in Part 16 above). If there is an LCD issue then the device may be sent to an authorized Service Center listed under Policies & Procedure in the Service Center Policy.

Power on: THE LCD screen will display an introduction video and there will be an audible beep when the SCIO/EDUCTOR is powered on.

Program Opening: an SCIO/EDUCTOR found message will display.

Calibration: LCD screen displays the Calibration video.

Test: LCD screen displays the Test video.

Therapy: LCD screen displays the video assigned to the specific therapies.

LCD: will display animations when
The SCIO/EDUCTOR is connected to the computer by the USB cable
The SCIO/EDUCTOR is switched on (rear of unit)

LCD Integrity

The LCD will display the intro video when the SCIO/EDUCTOR is powered on.

Part 21 - Quick Start

This is the basic guide to get your started. It is suggested to follow these steps with every Client. Remember that your training as a certified biofeedback technician, your dialogue with the Client, the Client's reason(s) for the session(s), and the Client's progress should determine your course of action during the session. The following steps are just to get started.

Part 21.1 - Program Opening: Client Data Entry

Step	Action	Notes/ Options
-------------	---------------	-----------------------

1	CLASP64 Icon: Dbl Clk	Program loads: stops at 25% to look for DEVICE: if found displays connection check facility. Close to continue.
2	Continue	Either large or small button
3	Password >OK>0210>OK	
4	Demographics	
4.1	New Client	For a more detailed description how to add a new client, see below of this table
	Enter Name, Sex, SOC table info	
	Patient Data (Load New or Previous Patient)	
	New Patient>OK>Enter DoB>Save Current Patient>Close	
4.2	Old Patient (second visit):	For a more detailed description how to load a previous client, see below of this table
	Patient Data (Load New or Previous Patient)	
	Select Client in List>Previous Patient	
5	Demographics Has client SOC Changed? <ul style="list-style-type: none"> ○ NO>Close ○ YES>Change values> Patient Data (Load New or Previous Patient)>Modify>Save>Close 	

Point 4.1 How to add a New Client:

- Enter the Person's Name to be tested in the edit box. Select the Gender by clicking on Male/Female/Both.
- Check the Pregnant box if pregnant.
- Check the Top Class Athletes if the client is a professional athlete.
- If you feel the client is negative, enter a number from 1 to 10, depending on how you appreciate their negativity.
- If you feel that the patient is overweight, enter the approximate number of kilograms in the appropriate tab.
- Go through the questions of the SOC panel with the patient. They must give a number for each question
- Enter the answers as numbers. You do not need to enter a 0, if you leave the box empty, the program will automatically know it is a 0
- Click on Patient Data (Load New or Previous Patient) button
- Click OK on the pop up message
- Click on New Patient button (highlighted in red)
- Click OK on the pop up message

- Enter client birth date, place of birth, country of birth and current address.
- If you do insurance, enter the Patient's Insurance Company
- To add more data into the system, we can enter the approximate date of birth on a geographical map, as this will activate a button later in the software.
- Click on Geography on the top menu bar. Select continent of birth.
- Click on Birth Time and Place on the top menu bar.
- On the new screen that appears, enter the time of birth, if known. If not known, you can click on If Unsure of Birth Time, Calculate. Based on electrical measures, this will give an approximate answer. Copy the answer into the box.
- On the map, double click on the approximate place of birth (This activates the Medical Astrology button in the Biorhythm panel)
- Click OK on the pop up message
- Click Save Current Patient
- Click Close to exit

Point 4.2 How to load a Previous Client:

- Inside Demographics, click the Patient Data (Load New or Previous Patient) button
- Scroll through the list and select the name of the patient by clicking on it.
- Click on the Previous Patient button
- Click Yes twice on the two questions that come up
- The Patient data is now loaded in the Demographics panel

Point 4.3 Modifying Client data:

Inside Demographics, load the patient, then modify the SOC values. It is important to assign a few minutes at every session to go through the SOC questions and monitor the progress of the patient.

Click on the Patient Data (Load New or Previous Patient) button

- Click OK on the pop up message
- Select the name of the patient from the list.
- Click Modify Patient
- Click Save Current Patient
- Click Yes on the pop up message

Part 21.2 – Calibration

The Calibration is a virtual handshake between the system and the client.

<i>Step</i>	<i>Action</i>
--------------------	----------------------

- | | |
|---|-----------------------------------|
| 1 | <i>Main Screen>Calibration</i> |
| 2 | <i>FAST Track Calibration</i> |

When Calibration is complete, the following message is displayed: 'Calibration Complete, proceed to Test'. Click OK and then click 'Yes' to exit the Calibration or 'No' to stay in the Calibration panel.

After the test there are options according to needs and expertise.

Calibration Messages

Difficulty/Extreme Difficulty in Calibration- dangerous to proceed

This may appear during calibration or early in Test. It indicates that the signals dialogue with the client is not clear or clean. History indicates the most likely reason is a high level of activity/stress within the client. The message is thus probably a real indicator of the client stress condition. The following actions can be considered:

1. Dialogue with client to elicit potential origins of apparent current high stress.
2. Consider general stress reduction approach e.g. Biofeedback>Biofeedback>Reduce Stress in nerves.

Part 21.3 – Test

- Click Test on the main panel to enter the panel
- Click Prepare Test – this starts a few second protocol
- Click Test (the Prepare Test button becomes the Test button)
- Click Close when the Test is over.
- Click Please Load New Info Report for the results to load

Part 22 - Saving Patient Data

It is prudent to have back ups of any important information as a matter of course and as security before updating the software.

In order to ensure that you will not lose your client records, it is recommended to back up your data regularly, depending on the number of patients seen monthly. Please follow the steps below to backup your Client Files:

- Start the Clasp64 and go to Demographics
- Click on „Patient Data (Load New or Previous Patient)”
- Click on „Export/Import” menu in the top menu bar
- Click on „Export Patient data”
- Select the location to save to, preferably an external memory stick
- Click „OK”
- Click „OK” on the confirmation message that pops up

You have now successfully made a backup!

Unfortunately, the patients file in the older versions are encrypted differently and are not compatible with Clasp 64 software to be used.

Part 23 - Restoring Client Data

In order to restore a backup, please follow the steps below:

- Start the Clasp64 and go to Demographics
 - Click on „Patient Data (Load New or Previous Patient)”
 - Click on „Export/Import” menu in the top menu bar
 - Click on „Import Patient data”
 - Select the location of the backup file
 - Click on Clasp 64 PatientExport folder to open it than select ‘patient.xml’ file and click on „Open”
 - The program will inform you that the patients have been restored.
 - Click „OK” on the confirmation message that pops up.
- You have now successfully restored a backup!

Unfortunately, the patients file in the older versions are encrypted differently and are not compatible with Clasp 64 software to be used.

Part 24 – Repairing or Refurbishing Your Device

For various reasons, your device may need to be sent in for repair. If you find that your device is not functioning as it normally way, then you can send it in for repair or refurbishment to an Authorized Service Center. For more information on Service Centers, please see the Service Center policy under DOWNLOADS - Policies & Procedures on the website www.scio-eductor.com.

Part 25 - Glossary

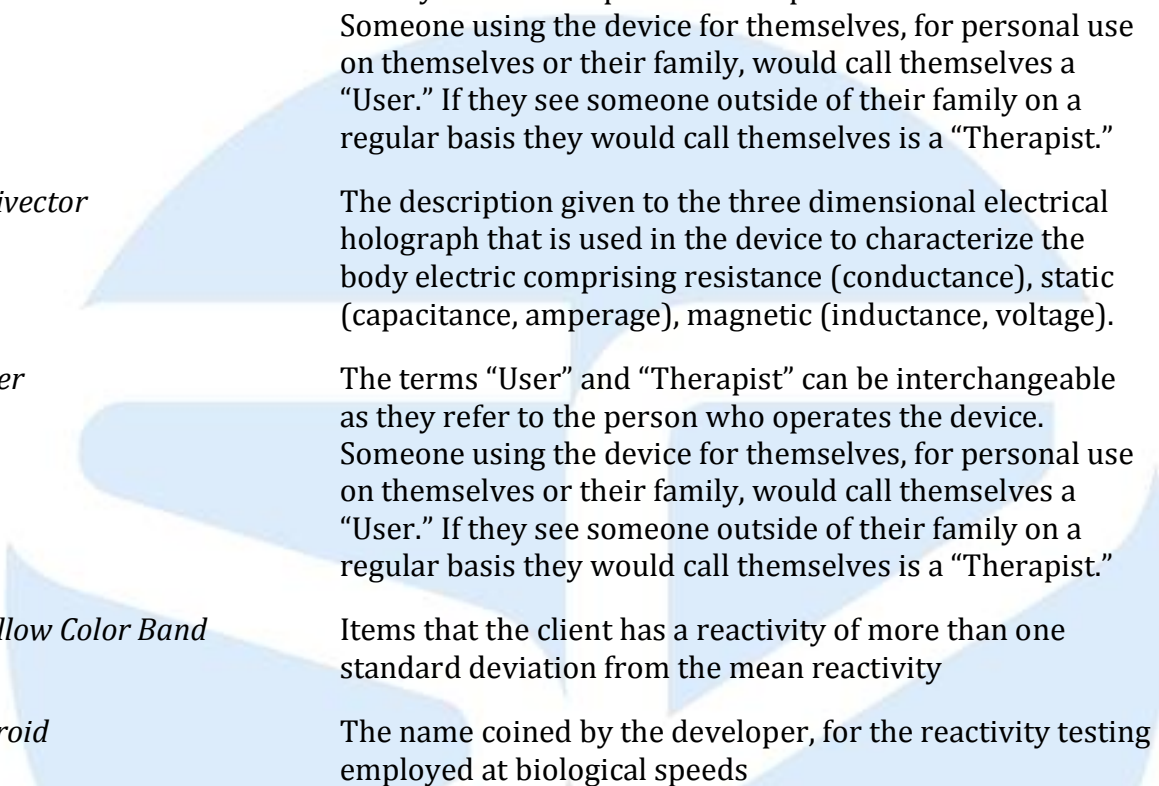
<i>Allersode</i>	Energetic pattern of food, inhalant etc. at the sensitizing potency of 30C.
<i>Body Capacitance</i>	The ratio of charge to potential, being an indicator of the body’s energy storing characteristics
<i>Calibration</i>	The initial process of establishing interface with the client, where the clients optimum reactivity response (time of exposure) is established to a variety of items (approximately 20)
<i>Client</i>	The terms “Patient” and “Client” can be interchangeable as they refer to the person who is connected to the device. If the Therapist has a license then the therapist can refer to the person connected to the device as a “Patient.” If the therapist does not have a license, then the therapist can refer to the person connected to the device as a “Client.”
<i>Coherence</i>	A measurement of the percentage of how close the return signal is to the original input signal. Generally increases if

there is a harmonic reaction of the client, with numbers above 75 indicating a positive reaction

<i>EPR</i>	Electro Physiological Reactivity
<i>Floating</i>	Each time a screen is entered a retest of the item occurs. The basis is that some interactions are quantic and do not repeat
<i>Fourier Number</i>	A dimensionless number that characterizes heat conduction.
<i>Hyperreactivity</i>	Clients body energetic is reacting too quickly or an hyper-immune mediated response
<i>Hyporeactivity</i>	Clients body energetic is weakly reacting
<i>Impedance</i>	The ability of a medium to conduct current, being the ratio of an induced voltage to injected current in a conductive media and having the two components of resistance and reactance
<i>Imponderable</i>	A non physical substance's energetic pattern. They include emotions, geopathics. Essentially anything that is not substantial.
<i>Interface Value (Calibration)</i>	Indicative of an accuracy of interface facilitating the testing of the majority of clients. At 98% 1 in 50 could be tested, at 95% 1 in 20, at 90% 1 in 100. At 85%, nominal target in the test process, 49 out of 50 can be tested
<i>Isode</i>	Energetic pattern of toxic material
<i>Major Resonant Frequency</i>	The predominant frequency of the clients energetic body
<i>Muscle Disturbance</i>	A high number indicates a disturbance but not necessarily intrinsic in the tissue. Especially if the sarcode resonance is sound then there is likely to be a secondary external source
<i>Muscle Tension</i>	The higher number indicating a higher tension or tightness.
<i>Nosode</i>	Energetic pattern of issue tissue or pathogens
<i>Patient</i>	The terms "Patient" and "Client" can be interchangeable as they refer to the person who is connected to the device. If the Therapist has a license then the therapist can refer to the person connected to the device as a "Patient." If the therapist does not have a license, then the therapist can refer to the person connected to the device as a "Client."
<i>Phase Angle</i>	Time delay between a stimulating current and the voltage generated by an alternating current of 50 KHZ in the

conductive media, expressed in degrees of phase shift. One complete cycle of current represents 360 degrees, so a phase shift of 6 degrees represents a shift of 6/360ths of a cycle or 1.67%

<i>Phase Contrast</i>	A method of viewing blood for disturbances under a specialized microscope system
<i>Proton Pressure</i>	An indication of the pressure exerted by the proton content of the clients body electric. Normal target is 65 to 70. Below 65 is considered acidic and above 70 alkaline. There is no correlation between this body electric measurement and urine, saliva, other body fluids
<i>Purple Color Band</i>	Items that the client has a reactivity to of more than two standard deviations from the mean reactivity
<i>Reactance</i>	The component of impedance related to the storage of energy in a conductive media
<i>Reactance Speed Index</i>	The number of times that the device has had to adjust the testing speed downwards in order to get an optimum reaction from the clients body electric
<i>Reactivity</i>	The client energetic response resulting in a score relating to the significance that a client may place on an item after an exposure of between 1/80 th and 1/110 th of a second
<i>Reactivity Dysfunction</i>	See hypo/hyperreactivity above
<i>Rectified</i>	An indication that an energetic disturbance has been repaired according to the way the device measures. It does not indicate how long this rectification will hold
<i>Red Value Color Band</i>	Reflect items that the client has a high reactivity to of three or more standard deviations from the mean reactivity
<i>Resistance</i>	The component of impedance related to the dissipation of energy in a conductive media
<i>Resonance</i>	The client reactivity to an item after 1 second exposure. Indicative of ongoing significance of an item
<i>Sarcode Resonance</i>	Indicates how much resonance there is to a healthy energetic pattern. High values indicate over functioning, too much energy, probably healthy but stressed from outside source. Below 50 indicates under functioning, too little energy, with a possibility of unhealthy or disturbed tissue
<i>Selye Stress Scale</i>	A stress scale rating that indicates where the client body electric is in terms of alarm, adaptation and exhaustion



<i>SOC</i>	Suppression and obstruction to cure, as calculated in the demographics panel
<i>Test Matrix Item</i>	These are energetic patterns of stressors, prepared as a homeopathic prior to measurement of their energetic characteristics in an electrical way
<i>Therapist</i>	The terms “User” and “Therapist” can be interchangeable as they refer to the person who operates the device. Someone using the device for themselves, for personal use on themselves or their family, would call themselves a “User.” If they see someone outside of their family on a regular basis they would call themselves is a “Therapist.”
<i>Trivector</i>	The description given to the three dimensional electrical holograph that is used in the device to characterize the body electric comprising resistance (conductance), static (capacitance, amperage), magnetic (inductance, voltage).
<i>User</i>	The terms “User” and “Therapist” can be interchangeable as they refer to the person who operates the device. Someone using the device for themselves, for personal use on themselves or their family, would call themselves a “User.” If they see someone outside of their family on a regular basis they would call themselves is a “Therapist.”
<i>Yellow Color Band</i>	Items that the client has a reactivity of more than one standard deviation from the mean reactivity
<i>Xrroid</i>	The name coined by the developer, for the reactivity testing employed at biological speeds

Appendix A - Accessories Policy

ACCESSORIES POLICY

All of the company Policies and Procedures are found on our official website www.scio-educator.com. However, as mentioned in this User's Manual under Client Safety: Harness Rules and Connections, this Accessories Policy is included here as well.

The Budapest Home Office can only support the safety and effectiveness of the limb harness (LH) and head harness (HH) that is part of the registered device as made by us.

The **only** accessories that are registered as part of the original device is the head and limb harnesses that are shipped directly to the customer from the Budapest Home Office. These are marked with the batch number LHxxxxxx and HHxxxxxx. They look like the head and limb straps below:



SCIO head harness



SCIO limb harness



EDUCTOR head harness



EDUCTOR limb harness

The use of any other accessory including head or limb harness is at the risk of the user. Please be aware that only the above pictured head and limb harnesses are tested for safety and effectiveness and are registered with the SCIO/EDUCTOR.

Please note that the Budapest Home Office cannot take any responsibilities for use of any other harnesses and/or accessories made by a Third Party. Using such harnesses and/or accessories are at the user's own risk.

Please always note that the Third Party is responsible for getting their harnesses and/or accessories safety tested by a proper testing body.

The user has the right to ask the Third Party for a safety certificate of the harnesses and/or accessories. Third Parties are given six (6) months to get the safety certificate. Therefore the user should be asking for a safety certificate of harnesses and/or accessories.

LIMB HARNESS

The limb harnesses are designed to be comfortable and flexible to use, while maintaining a high quality level. This harness is unique in the market today, not only because it offers you simpler ways of working with a patient, but because it is using the highest quality in materials and further maintenance.

In our 20 years of experience in the field of energetic medicine and biofeedback, volcanic rubber has proved to be the safest and the most conductive material for the harness therefore we have kept the same material in manufacturing the new harnesses.



SCIO limb harness

The metal part is covered so the risk of bruises, sore or blisters when working with patients with electrical hyper reactivity is eliminated.

The new design of the harness will make it more comfortable for you to deal with the patient during the biofeedback session. The cables that connect the plug to the straps are now made from a flexible, more resistant and soft material. Also, you will notice that the bananas are painted the four colors that you have become very familiar with, red, blue, yellow and black, colors that indicate which extremity to connect the strap to. In the past, that was indicated by the small colored buckle located on the straps. In order to prevent tangling of the harness and provide easy handling, the cables have been tied together at an appropriate length, so you can connect your patient with no effort. The length can be adjusted according to your needs.

The connection of the straps to the cables is made through banana plugs. This way, if during the session your patient needs to be disconnected from the harness for any reason, you can do so with a simple click.



You can either remove the strap or unplug it, as seen in the pictures below.



When your patient returns and is ready to go back on the device, you simply re-connect the patient in the correct way, following the colored hints.



SCIO harness plug



EDUCTOR limb harness plug

Appendix B – Good Manufacturing Practice (GMP) Information

The following general information is required in following with Good Manufacturing Practice (GMP).

Information on Disposal for Users of SCIO/EDUCTOR

The SCIO/EDUCTOR device you are using is an electronic product that should not be mixed with general household waste.

For proper therapy, recovery and recycling please take this device to designated collection points where they may be accepted or return it to Mandelay Kft. (ÁTI-Sziget Ipari Park 11. Ép., H-2310 Szigetszentmiklós or 1089 Budapest Kalvaria ter 2.).

Disposing of this product correctly will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

For users in the European Union: If you wish to discard this electronic equipment, please contact Mandelay Kft. (ÁTI-Sziget Ipari Park 11. Ép., H-2310 Szigetszentmiklós or 1089 Budapest Kalvaria ter 2.) for further information.

Function of Banana Jacks on the Back Side of the Device

For electrodes which is not a product of Mandelay Kft.: 3M 2223 – Monitoring Electrode, 1st class,

F9042M4, connector cables for clip electrodes 4 mm plug 8 different colours, supplied pack of 6 pieces.

Specifications

Power

Power Uptake max. 100 mA

DC Power

Input	5 V DC (USB Port)
Generated Signals	Any Way You Want Ponalt/Negalt (See below)
Output Ports	12 (Freely Exchangeable Channels)
Time of Change of Signal	max. 300 ms
Time of Change of Channel	max. 100 ms

Output voltage	0 – 4 V DC
Resolution of output voltage	up to $\pm 1.5\%$ of the final amplitude
Accuracy of Output voltage	up to $\pm 1.5\%$ final amplitude
Output Resistance	5k Ω , as the maximum
Output Frequency	- dual channel sinus wave generator 0 to 100 kHz or

Resolution of Frequency	-single channel sinus wave generator
Accuracy of Frequency	in case of a 256 points sample – between 0 and 25 kHz
Applied Fuse	in case of a 64 points sample – between 0 and 100 kHz
	0,01 Hz
	up to $\pm 1.5\%$ of the measured value
	MF-R030 (Bourns; Self-Recepting Fuse)

Physical Specifications

Length	200 mm
Width	150 mm
Height	60 mm

Environmental Specifications

Operating Temperature	10 ° – 35 ° Celsius
Storage Temperature	-15 ° – 70 ° Celsius
Humidity	less than 80%

To reduce the chance of electrostatic discharge, the best suggested surfaces are floors of wood, concrete or ceramic tiles. If the floor is tiled with synthetic material the relative air humidity should be 30% at least. If carpeted floors, a metallic surface should be touched first to discharge any electrostatic build up before touching the SCIO/EDUCTOR. Fires in fireplaces should not be in use in the same treatment room as the SCIO/EDUCTOR.

Manufacturer's Data

Mandelay Kft.
Gyártelep 12001/33 hrsz.
H-2310 Szigetszentmiklós
Phone: +36 20 250 7190

List of Accessories

- 1 Software (which can be downloaded from our website: www.scio-eductor.com)
- 1 USB Cable
- 1 Head Strap
- 1 Limb Strap
- 1 bag
- 1 test plate (in case of EDUCTOR)

Manufacturer of Case

OKW
Friedrich-List-Straße 3
D-74722 Buchen
Germany

Applied Material: high-impact polystyrene (UL 94 HB).

Manufacturer of Harnesses, Sub-Contracted to:

Pentavox Kft.
Dugonics utca 11.
1043 Budapest

Hungary

Materials used in harnesses: vulcanized elastomer 60%; carbon plaque 30%; curing system 7%; and oil plasticiser 3%.



Appendix C – Warranty Contract

WARRANTY CONTRACT

Please refer to the Warranty Contract and contact your Broker/Networker/Trainer if you have any questions regarding the Warranty Contract.

1. Products Cover

The device ("The System") and the limb and head harness ("The straps") designed and manufactured by Mandelay Kft. ("The Manufacturer"). Based on industry standards of the materials used and the fact that the device does not have movable parts, the life of the device has been established to be up to 10 years and perhaps longer than 10 years. There is no expiration date on the life of the device. The harnesses are considered to be movable parts and therefore have a recommended lifetime of up to 3 years from the first use and are easily replaced. The device has a shelf-life of up to ten (10) years from the date of manufacture, and should be refurbished within that time frame.

2. Warranty Cover

"The Manufacturer" warrants to the final user ("The User"), that "The System", will be free from defects in materials and workmanship under normal use and service as directed, during the warranty period described in paragraphs 3 and 4.

3. Warranty Initiation

The warranty will begin on the day "The User" takes possession of "The System". Dated proof of purchase must exist in "The Manufacturer" records for "The System" returned for warranty service consideration.

4. Length of Cover

The warranty of "The System", excluding consumable items, is two (2) years and the warranty of "the straps" is for six (6) months. The warranty of "the System" automatically expires if an unauthorized person opens "The System" or alters "the Straps." Only "The Manufacturer" or an authorized Service Center, as authorized by "The Manufacturer" may repair "the System."

5. Proof of Purchase

Proof of Purchase is automatic from the date the device is shipped out to "The User."

6. Manufacturer's Actions

If "The System" covered under this warranty becomes defective in material or workmanship during the applicable warranty period, "The Manufacturer" will, at its option, either repair or replace the defective product without charge for parts and labor, or provide a replacement in exchange for "The System" defective. "The Manufacturer" reserves the right to provide, at no extra cost, a more current upgrade model for replacement, if available.

7. Not Warranted

- I. Systems that have been opened by anyone other than an Authorized Service Center, or subjected to misuse, accident and physical damage, improper installation, abnormal operation or handling, neglect, inundation or fire.
- II. Systems that have been damaged due to repair, alteration or modification by any other than an authorized representative of "The Manufacturer".
- III. Defects caused by components, parts or accessories not compatible with the warranted System.
- IV. Systems, whose warranty/quality, product serial number, electronic serial numbers, stickers or plates have been removed, altered, rendered illegible or tampered with.
- V. Accessory items and Consumables.
- VI. The shipping costs to and from an authorized Service Center or "The Manufacturer" is not covered.

Any other warranties, including but not limited to the implied warranties of merchantability and fitness for a particular purpose, shall be limited in duration to the duration of this warranty.

"The Manufacturer" assumes total liability for damages for any cause related to, or arising out of, the use or inability to use "The System", whether in contract, negligence, strict tort or based on any other legal aspect, shall not exceed the original price paid for "The System".

In no case shall "The Manufacturer" be liable for any indirect special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict tort or any other legal theory, such damages include, but are not limited to, loss of profits, loss of savings nor revenues, inability to use "The System" or any associated equipment, cost of

capital, cost of any substitute equipment, facilities or services, claims by Third Parties other than “The User”, and injury to property.

8. Warranty Service

If “The System” requires warranty service, “The User” must first contact an Authorized Service Center through “the User’s” online account with www.scio-eductor.com to order the service. “The System” must be returned at the cost of “The User” along with a description of “The System” malfunction or difficulty and the address where “The System” must be returned. Warranty status must be substantiated as explained in paragraph 5.

“The Manufacturer” assumes no risk for damage or loss in shipment. If in “The Manufacturer’s” sole opinion, “The System” failure is not covered under this warranty, “The User” will be notified and an authorization will be requested for any further repair activity. “The System” repaired under warranty will be returned to “The User” at the cost of “The Manufacturer”. If “The System” is repaired and it is not under warranty it will be returned to “The User” at the cost of “The User”.

Judgment on all situations and/or occurrences that may arise and are not listed in paragraph 7 will be left to the discretion of “The Manufacturer”. All decisions made by “The Manufacturer” are final and absolute.

9. Agreement

Unless modified in writing, signed by both “The Manufacturer” and “The User”, this warranty is understood to be the complete and exclusive agreement between the parties, superseding all prior agreements, oral or written, and all other communications between the parties in relation to the subject matter of this warranty. Neither Agent nor Employee of “The Manufacturer” may make modifications to this warranty and, if so, such representations should not be relied upon.

Appendix D – Software License Agreement

IMPORTANT: Please read the terms and conditions of this Software License Agreement below carefully prior to download, installation, copy or use.

Mandelay Kft. Software License Agreement

This is a legal agreement between you, the user, and Mandelay Kft. This agreement covers all Software (hereinafter referred to as the 'Software') that is distributed with the 'SCIO/EDUCTOR' Universal Electrophysiological System, for which there is a separate agreement between you and Mandelay Kft. By inserting the USB pendrive or other media with the software in your computer or laptop, installing or downloading the Software, or using the Software, you agree to be bound by the terms of this agreement. If you do not agree with these terms, promptly return all Software items (disks, manuals, pendrives and packing), and delete the Software.

Grant of License

The Mandelay Kft. grants you a non-exclusive and limited royalty (fee) based license, not limited in time, to use the SCIO/EDUCTOR Software supplied by The Mandelay Kft., that you legally acquired from The Quantum Biofeedback Ltd. solely in accordance with the terms and conditions of this Software License Agreement and any ancillary agreement. Within the application of this Software License Agreement the term 'Software' also includes any patches, updates, bug fixes, if such are issued by The Mandelay Kft., as well as the Software as modified thereby.

The Software is licensed, not sold, to you.

You may use one copy of the Software in only three computers at a time. If you have multiple licenses for the Software, you may use as many copies at any time as you have licenses. 'Use' means loading the Software in temporary memory or permanent storage on the computer. Installation on a network server solely for distribution to other computers is not 'use' if (but only if) you have licenses for each computer to which the Software is distributed. You must ensure that the number of persons using the Software installed on a network server does not exceed the number of licenses that you have. If the number of users of Software installed on a network server will exceed the number of licenses, you must purchase additional licenses until the number of licenses equal the number of users before allowing additional users to use the Software. If you are a commercial customer of Mandelay Kft., you hereby grant Mandelay Kft., or an agent selected by Mandelay Kft., the right to perform an audit use of the Software during normal business hours, you agree to cooperate with Mandelay Kft.. In such audit, you agree to provide Mandelay Kft. with all records reasonably related to your use of the Software. The audit will be limited to verification of your compliance with the terms of this agreement.

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Bug fixes, service patches, service packs, version changes

The Mandelay Kft. shall be entitled from time to time to issue bug fixes, service patches, service packs, new versions to the Software, but shall not be obliged to provide such. You shall be entitled to install such bug fixes and service patches. The license to install and use service packs and new Software versions shall be subject to the payment of the relevant fees and the acceptance of additional terms, if such are issued by The Mandelay Kft. Thereto.

Transfer of License

If not contrary to the terms of this agreement, you may permanently transfer the License and all rights ensuing from this agreement to another user with the The Mandelay Kft.'s consent, subject to the payment of the relevant transfer fee, and the condition that (i) you do not retain any copies of the Software; (ii) the transfer of rights must be direct, i.e. from you to

the new end user; (iii) the new end user must assume all the rights and obligations incumbent on you under the terms of this agreement.

Ownership

You agree that The Mandelay Kft. retains all right, title and interest in and to the Software and all copies at all times, regardless of the form or media in or on which the original or other copies may subsequently exist. You agree that you neither own nor hereby acquire any claim or right of ownership to the Software or to any related patents, copyrights, trademarks or other intellectual property. You agree to use reasonable efforts to prevent and protect the contents of the Software from unauthorized disclosure or use. The Mandelay Kft. and/or its suppliers reserve all rights not expressly granted to you.

Unlimited and exclusive title and ownership to proprietary rights to any development, alteration, integration with other services or products of The Mandelay Kft. products and services shall all times remain with The Mandelay Kft. Nothing – except the express prior written consent of The Mandelay Kft. – may be construed, in any agreement, promise, offer, or actual work done by The Mandelay Kft., as The Mandelay Kft. transferring, selling, assigning title and ownership (exclusive or not) in any derivative work based on any product or service or a work created by The Mandelay Kft. under such agreement, promise, offer or actual work done.

Limited Warranty

This warranty is limited to you and it is not transferable.

Mandelay Kft. hereby informs you that although the greatest care was taken in producing the Software, given the nature of the Software and its technical limitations, The Mandelay Kft. does not provide a warranty for the Software and related services being completely error-free, and The Mandelay Kft. is not bound by any contractual obligation whereby the Software obtained by you should be completely error-free.

Mandelay Kft. does NOT warrant that the functions of the Software will meet your requirements or that operation of the Software will be uninterrupted or error free, or that all software errors can or will be corrected. The Software itself, as well as any error corrections, bug fixes, and updates issued are provided 'as is' without warranty or condition of any kind and The Mandelay Kft. expressly disclaims all warranties and conditions in relation thereto. You assume responsibility for selecting the Software to achieve your intended results and for the use and results obtained from the Software.

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Mandelay Kft. does not assume and hereby disclaims any liability to any party for any loss, damage, or any potential business disruption caused by errors, omissions, or inaccuracies of content provided by Mandelay Kft., whether such errors, omissions or inaccuracies result from negligence, accident, or any other cause.

You accept sole responsibility for (i) your system configuration, design and requirements, (ii) the selection of the Software and services to achieve your intended results, and (iii) modifications, changes or alterations to the Software or any related service; (iv) Content supplied, uploaded, processed, converted, created with the Software. You acknowledge you understand the functionality of the Software and its ability to work with your systems and, if relevant, to support your business, and that it has made its own evaluation in deciding to license the Software.

You accept sole responsibility for observing and complying with and any limitations, technical instructions, maintenance guidelines, specifications or any other information affecting the means to use the Software and/or any related devices, as supplied to you as part of the SCIO/EDUCTOR User Manual or any other related documentation.

IN NO EVENT SHALL MANDELAY KFT. OR ITS SUPPLIERS BE LIABLE FOR ANY DAMAGES WHATSOEVER (INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, LOSS OF BUSINESS INFORMATION, OR OTHER PECUNIARY LOSS) ARISING OUT OF USE OR INABILITY TO USE THE SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Because some jurisdictions do not allow an exclusion or limitation of liability for consequential or incidental damages, the above limitation might not apply to you.

U.S. Government restricted rights

The Software and documentation are 'commercial items' as that term is defined at 48 C.F.R. 2.101, consisting of 'commercial computer software' and 'commercial computer software documentation' as such terms are used in 48 C.F.R.

12.212. Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-4, all U.S. Government end users acquire the software and documentation with only those rights set forth herein. Contractor/manufacturer is Mandelay Kft., H-2310 Szigetszentmiklós Gyártelep 12001/33 hrsz.

Other Restrictions.

National laws applying to medical devices and accompanied software products may apply to the use of the Software and related devices, contents. If any use or sale of the Software and/or related devices, contents conflict applicable national laws, you may not use or sell these.

Except as expressly permitted by this Agreement, you hereby acknowledge and agree that (a) you will not modify or translate the Software except as necessary to configure the Software using the menus, options and tools provided for such purposes and contained in the Software; (b) you will not in any way reverse engineer, disassemble or decompile the Software or any portion thereof except to the extent and for the express purposes authorized by applicable law notwithstanding this limitation; (c) you will not transmit, or provide access to, the Software over a network except as expressly described in the associated documentation; (d) you will provide access to the Software only as allowed in this agreement; (e) you will not sublicense, assign, rent, sell, lease, distribute or otherwise transfer the Software or any of the rights granted by this Agreement, unless you obtain a separate license for such purposes; (f) you will not use unauthorized codes or credentials to access additional Software functionality or performance; (g) you will not authorize or permit the use of the Software except as explicitly permitted herein; (h) you will not delete, fail to reproduce or modify any copyright, trademark or other proprietary rights notices which appear on or in the Software or documentation.

Mandelay Kft. or third parties commissioned by Mandelay Kft. may provide technical support at their own discretion, without any guarantees or declarations. Mandelay Kft. and/or third parties commissioned by Mandelay Kft. cannot accept liability for damage or loss of data, property, software or hardware or loss of profits due to the provision of technical support. Mandelay Kft. and/or third parties commissioned by Mandelay Kft. reserve the right to decide that resolving the problem is beyond the scope of technical support. Mandelay Kft. reserves the right to refuse, suspend or terminate the provision of technical support at its own discretion.

In the event of installing any updates, patches, bug fixes etc. or using technical support, you are required to back up all existing data, software and program facilities prior thereto.

General

For some functions of the Software to operate correctly, connection to the Internet may be required, potentially at regular intervals, to the Provider's servers or third-party servers.

This contract is effective until terminated. It will terminate upon the conditions set forth above, or if you fail to comply with any of its terms. Upon termination, you agree that the Software and accompanying materials, and all copies thereof, will be destroyed. This agreement is governed by Hungarian law. Each provision of this agreement is severable. If a provision is found unenforceable, this finding does not affect the enforceability of the remaining provisions, terms, or conditions of this agreement. Nothing contained in this agreement shall prejudice the statutory rights of any party dealing as a consumer if running contrary thereto. This agreement is binding on successors and assigns. Mandelay Kft. agrees and you agree to waive, to the maximum extent permitted by law, any right to a jury trial with respect to the Software or this agreement. Because this waiver may not be effective in some jurisdictions, this waiver may not apply to you. You acknowledge that you have read this agreement, that you understand it, that you agree to be bound by its terms, and that this is the complete and exclusive statement of the agreement between you and Mandelay Kft. regarding the Software.

Appendix E – Revision History

The following is a list of the major changes in the User Manual 200075. This table is updated with the most recent change at the top.

Revision	Effectivity Date	Description of Change	Originator
A	06 September 2017	Initial Release - DRAFT	