



USER MANUAL - ENGLISH

TABLE OF CONTENT

CHAPTER 1: BEFORE YOU START

CHAPTER 2: GETTING TO KNOW YOUR TELOSIN

CHAPTER 3: SAFETY INFORMATION

CHAPTER 4: POSSIBLE SIDE EFFECT USING TELOSIN

CHAPTER 5: BEFORE USING YOUR TELOSIN FOR THE FIRST TIME

CHAPTER 6: HOW TO USE YOUR TELOSIN

CHAPTER 7: HOW OFTEN TO USE YOUR TELOSIN

CHAPTER 8: WHAT TO EXPECT

CHAPTER 9: TAKING CARE OF YOUR TELOSIN

CHAPTER 10: TROUBLESHOOTING

CHAPTER 11: PRODUCT WARRANTY

CHAPTER 12: TECHNICAL SPECIFICATION

CHAPTER 13: CUSTOMER SERVICE



READ THIS FIRST

It is important to read the entire contents of this instruction for use manual before using your TELOSIN.

The instructions, warnings, precautions and safety information contained within this manual are intended to help ensure proper use and optimal results. It is important that you read this entire manual before using your TELOSIN for the first time.



This symbol appears next to information about possible safety risks



This symbol appears next to tips that contain helpful information allowing optimal treatment

CHAPTER 1: BEFORE YOU START

1.1 WHAT IS TELOSIN

Telosin is a battery-operated device that uses low power light spectrum at red and infrared LED optical power in a uniform distribution with no hot spots. It is a hand held light emitting diode device for the treatment of multiple signs of aging, reduce facial fine lines & improving the appearance of the skin.

1.2 DECIDING TO USE THE TELOSIN

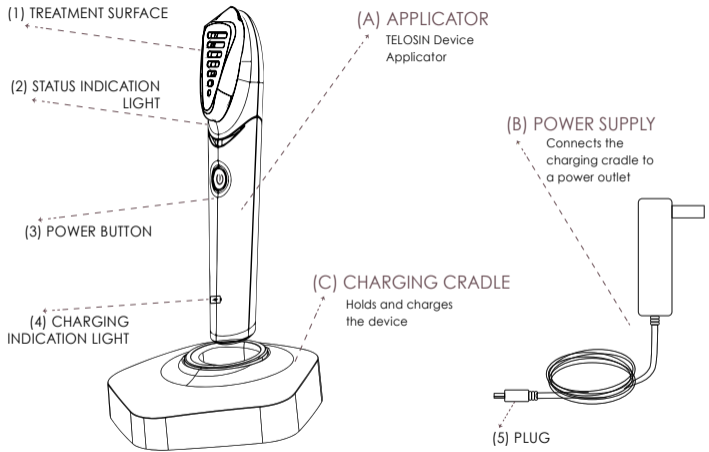
carefully review the Important Safety Information, Contraindications, Warnings, Precautions, and Considerations found on page 10, to decide if TELOSIN is ok for you to use. If you are not sure whether the TELOSIN is right for you, DO NOT USE your device until you have contacted TELOSIN Customer Care or a health care professional for more information.

CHAPTER 2: GETTING TO KNOW YOUR TELOSIN

2.1 YOUR TELOSIN

TELOSIN consists of an APPLICATOR, a CHARGING CRADLE and a POWER SUPPLY. The TELOSIN APPLICATOR is a hand-held unit that contains a TREATMENT SURFACE at the APPLICATOR tip, a POWER BUTTON, a STATUS INDICATION LIGHT and a CHARGING INDICATION LIGHT. The POWER SUPPLY is used to charge the batteries within the APPLICATOR via the CHARGING CRADLE.

A	APPLICATOR	B	POWER SUPPLY
1	Treatment surface	5	Plug
2	Status Indication Light	C	CHARGING CRADLE
3	Power button		
4	Charging indication light		

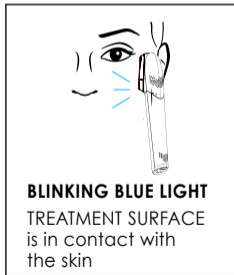
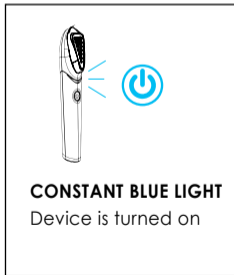


2.2 WHAT'S INCLUDED

- TELOSIN APPLICATOR
- CHARGING CRADLE
- TRAVEL BAG
- POWER SUPPLY
- USER MANUAL

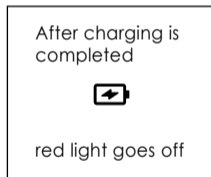
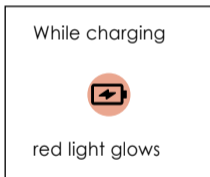
2.3 STATUS INDICATION LIGHT

Status Indicator lights on the APPLICATOR, indicate the following:




2.4 CHARGING INDICATION LIGHT

- While applicator is in charging cradle and connected to power supply:
- While charging – red light glows
- After charging is completed - red light goes off



- While applicator is not in charging cradle:red light glows indicates that The battery level is low, and Charging the applicator is needed (see page 16)

CHAPTER 3: SAFETY INFORMATION

 To protect your skin, a temperature sensor is embedded in the treatment tip of the TELOSIN. This sensor ensures the skin's surface will not exceed 42 °C /106 °F

Important Safety Information - Read Before Use!

3.1 WHEN NOT TO USE THE TELOSIN (CONTRAINDICATIONS)

- Do not use the device on skin that is infected, burned, or cut as this could cause discomfort or irritation. Wait until the infection, burn, or cut has healed before using the TELOSIN.
- Do not use on abnormal skin conditions caused by diabetes or other systemic or metabolic diseases.
- Do not use on treatment areas if you have a history of herpes outbreaks in the area of treatment, unless you have consulted your physician and received preventative medication prior to use.
- Do not use on raised dark brown or black spots, birth marks, moles or warts, lesions, open wounds or active infections, such as cold sores. Wait for the affected area to heal before treating.

- If your facial skin has been treated with a physician-prescribed drug within the past 6 months, please consult with your physician before use.
- Do not use the device if you have a skin condition or are recovering from professional cosmetic treatments, such as a skin peel, skin resurfacing, injectable toxins or fillers.
- Do not use if you have a history of light triggered seizures, especially if you have photosensitive epilepsy, as the pattern of bright light could induce seizures.
- Do not use if you have a history of skin cancer.
- You are undergoing radiation or chemotherapy treatments.
- Do not use if your skin is sensitive to light. You may be sensitive to light and not know it. Certain cosmetics, drugs, dyes, and other things can cause your skin to become sensitive to light. The light sensitivity test on page 10 will help you to determine if you are sensitive to light.



3.2 WARNINGS - TO AVOID SEVERE INJURY OR DEATH

Read the following important safety information before using the device. If you have any questions contact TELOSIN Customer Care or a health care professional.

- Do not use to treat your eye or eyelids or aim the device directly into your eyes. Doing this could cause serious eye injury. Treat around the eyes only where you can feel bone beneath the skin.
- Do not treat your face more than once per day (once every 24 hours). Doing this could result in increased risk of skin irritation.
- Do not use the device if you are under the age of 18. The use of the device on or by anyone under the age of 18 has not been tested and could result in serious skin or eye injury.
- Do not use if you are pregnant. The device has not been tested for safety on pregnant women and the risks are unknown.
- Do not use the device if it is wet, or if it or the charger could fall into water while it is plugged in. If the device or charger has fallen into water, do not touch until you first unplug it. Touching the device while it is wet could result in possibly fatal electric shock.
- Do not use the device if you experience skin color darkening. Failure to follow these instructions may cause further skin color darkening that may take more

than 3 months to diminish.

- Do not use the device to treat skin which is painful to touch, raised (higher than surrounding skin), crusting or bleeding. This may be a sign of a more serious condition and should be checked by your doctor.
- Do not treat if your skin is significantly red or swollen from a previous treatment. If you have skin redness or swelling that lasts for more than two hours, stop using the device and contact a health care professional.
- If you are unsure if your TELOSIN is safe for you to use, please consult with your physician or dermatologist.



3.3 PRECAUTIONS

- Keep out of the reach of children
- Keep out of the reach of persons with reduced physical, sensory or mental capabilities
- Keep away from water Keep the device applicator and its charging cradle and power supply dry. Do not use or store in a wet environment.
- Do not use if the adapter or the applicator or the power supply is damaged
- Do not drop the device on hard surfaces, as this could damage it. Using a damaged device could result in serious skin or eye injury.
- Only use the provided charging cradle and power supply to recharge the device. Using different equipment could damage the device.
- Do not attempt to open or repair the device applicator, charging cradle, or power supply

CHAPTER 4: POSSIBLE SIDE EFFECT USING TELOSIN

When used as instructed, side effects and complications associated with use of TELOSIN are rare. However every cosmetic procedure, including those designed for home use, involve some degree of risk. Therefore, it is important that you understand and accept the risks and complications that can occur with energy based systems designed for home use.

- When used as instructed, you may experience minor discomfort during and after use. skin may become slightly irritated after use.
- When used as instructed, you may develop temporary a reddening of the skin (mild erythema) over the treated area. This is normal and should resolves within a few hours after treatment.

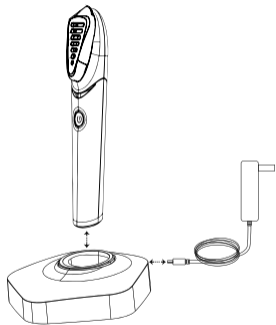
If the irritation or reddening of the skin does not disappear within 24 hours, please consult a physician or a dermatologist.

CHAPTER 5: BEFORE USING YOUR TELOSIN FOR THE FIRST TIME

5.1 CHARGE YOUR TELOSIN

- Insert the power supply plug into the charging cradle. Then plug the power supply into an outlet.
- Place your TELOSIN into the charging cradle.
- When your TELOSIN is charging, the battery indicator illuminate. When fully charged, the battery indicator will turn off.
- For your convenience, your TELOSIN may be stored in its charging cradle between treatments. This ensures that it is always fully charged and ready for treatment.

NOTE: The battery indicator will illuminate when the battery needs to be charged. The indicator will illuminate while the TELOSIN is charging, and turn off when charging is complete.



5.2 ACTIVATE YOUR TELOSIN

- A one-time activation is required before you use your TELOSIN set for the first time.
- This takes only a few minutes and will also register you for your warranty.
- Please visit telosin.com/register-product Registering your TELOSIN purchase links your product with important notifications, proof of ownership, and warranty service.

5.3 PERFORM LIGHT SENSITIVITY TEST

Follow these instructions to see if you are sensitive to light:

1. Press the power button to turn the device on.
2. Place the device on a small, less sensitive patch of skin (i.e., like your forearm. Leave in contact for the full 5-7 minutes treatment cycle.
3. Turn device off. By pressing the power button.

Wait 24 hours. You should NOT experience any adverse reaction during the next 24 hours. If you experience a reaction, consult your doctor before using the device!

An adverse reaction is any pain, discomfort or change in skin texture and pigment (redness, swelling).

CHAPTER 6: HOW TO USE YOUR TELOSIN

- ! Important-perform the light sensitivity test described in section 5.3 of this manual to see if your skin is sensitive to light before using this device
- i Make sure your Telosin is charged before use

STEP 1. PREPARE YOUR SKIN

Wash and dry your face.

STEP 2. TURN ON YOUR TELOSIN

Remove your Telosin from its charging cradle and press the power button to turn it on. Wait for the blue STATUS INDICATION LIGHT to illuminate. **Your Telosin is now ready for treatment.**

STEP 3. TREAT YOUR SKIN

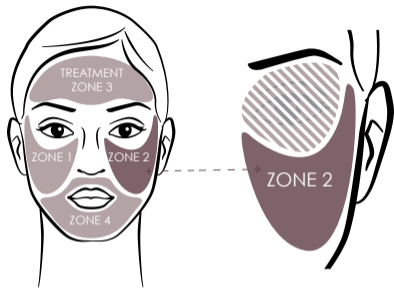
Gently glide your TELOSIN with the metal treatment surface along your face. The led light will automatically turn on upon contact with your skin and the temperature will slowly increase. The blue STATUS INDICATION LIGHT will blink to confirm contact with the skin.

Apply light, gentle pressure while slowly moving the TELOSIN in circular movements along your skin.

When treating, divide your face into 4 zones (see page 20) to ensure even treatment over the entire face. Treat zone 1 until the device beeps, then press the power button and continue to the next treatment area (zones 2, 3, and 4)



Once treatment is done, clean your TELOSIN treatment surface with a clean dry cloth, and place your TELOSIN back into the charging cradle




WARNING: Do not use to treat your eye or eyelids or aim the device directly into your eyes. Doing this could cause serious eye injury. Treat around the eyes only where you can feel bone beneath the skin




WARNING: Do not treat each zone more than once per day (once every 24 hours). Doing this could result in increased risk of skin irritation

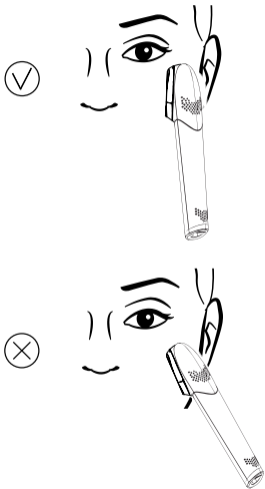


WARNING: Do not cover the ventilation slots during use. This may cause the device not to work properly

 To treat each zone, place the entire treatment surface flat against your skin, and glide it slowly in circular movements to cover the entire zone as shown in the pictures. Keep the device moving and in good skin contact to keep the blue indication light blinking.

 It is recommended to apply a small amount of a moisturizing cream on the treated skin areas after each session and massage it in gently into your skin

 For TELOSIN Eye Concentrator - treat zones 1 and 2



CHAPTER 7: HOW OFTEN TO USE YOUR TELOSIN

The efficiency of the results varies from person to person and according to the frequency of use. Some may see results sooner than others.

Best results can be expected 3-7 weeks after completing the recommended course of treatment.

- **Initial treatment schedule:** For the first month (4 weeks), treatment should be performed a minimum of 3 times a week for 15-20 minutes each time (4-7 minutes on each treatment zone).
- **Maintenance schedule:** Use TELOSIN once a week for 15-20 minutes.

CHAPTER 8: WHAT TO EXPECT

- Users typically notice an improvement in their skin in as few as 2 weeks, with the best results occurring a few weeks after the 3-7 week course of treatment.
- During the TELOSIN session you may feel slight warmth. This is normal and should disappear within an hour.
- During or immediately after treatment, you may also develop temporary a slight reddening of the skin (mild erythema) over the treated area. This is normal and should resolves within an hour or two.
- During a TELOSIN session it is normal to hear a fan noise turning on and off during TELOSIN treatments. This is a safety feature that helps regulate the skin temperature during use.



NOTE: If you have more significant or persistent side effects, discontinue treatment and contact TELOSIN Customer Care or a health care professional.

CHAPTER 9: TAKING CARE OF YOUR TELOSIN

9.1 CLEANING

!always unplug the charging cradle from outlet before cleaning!

For best results, keep the treatment surface clean after each treatment. Oils, lotions, makeup, or other debris can block the LED light or keep the device from functioning properly. After each treatment, clean the treatment surface with a lint-free cloth. If other parts of the device or charging cradle become dirty, clean as needed with a soft cloth.



Never immerse TELOSIN or any of its parts in water



Avoid getting water or other liquid inside any part of the device or the charging cradle



Never clean TELOSIN or any of its parts under the tap or in the dishwasher

9.2 MAINTENANCE

- Keep your TELOSIN and all its components in a dry and clean place free of dust at room temperature
- Do not cover the ventilation slots during use
- Never shake or drop TELOSIN or subject it to severe shocks

- Do not expose the device to environmental temperatures lower than 10°C/59°F or higher than 35°C/95°F during use.
- TELOSIN can not tolerate extreme changes in temperature. When moved from a cold environment (under 10°C/50°F) to a warm environment, avoid use for approximately 3 hours
- Do not expose TELOSIN to direct sunlight or UV light for long periods of time

If you think your device or charging cradle is not working properly or is damaged, do not use the device. Call TELOSIN Customer Care for assistance.

9.3 STORAGE

Keep your TELOSIN and all its components in a dry and clean place free of dust at room temperature. Keep the device and charging cradle away from water, dampness, or debris that may get inside the device or the charging cradle.

9.4 DISPOSAL



This device contains lithium batteries. Do not dispose with household waste.

Please follow the regulations where you live for recycling or disposing of electrical devices.

CHAPTER 10: TROUBLESHOOTING

Use this chart to help solve any problems that come up. If you still have problems, please call TELOSIN Customer Care at Cs@telosin.com

YOUR QUESTION	IT'S POSSIBLE THAT	HOW TO TROUBLESHOOT
My TELOSIN won't turn on	Your TELOSIN isn't charged	Charge your TELOSIN by placing it in the charging cradle (see page 13)
	Your TELOSIN Applicator is broken	Contact your local TELOSIN Customer Service center
My TELOSIN device temperature raises during use	This is a normal behavior	No Action is required
My device status indication light illuminates in yellow (fault light indicator)	Your TELOSIN isn't working properly	Turn your TELOSIN off, then back on. If the indicator remains lit, contact TELOSIN Customer Care

YOUR QUESTION	IT'S POSSIBLE THAT	HOW TO TROUBLESHOOT
My TELOSIN doesn't charge when I place it in the charging cradle	Your TELOSIN isn't connected properly	Check that the device is sitting correctly in the charging cradle. Then check that the cable is properly connected at both ends and fully plugged into the wall outlet. (see page 13)
	The outlet in your home isn't working	Try a different outlet
	Your TELOSIN isn't sitting in the charging cradle properly.	Re-position your TELOSIN in the charging cradle, making sure it rests against the bottom of the cradle. Check that the battery indicator is flashing. (see page 13)

YOUR QUESTION	IT'S POSSIBLE THAT	HOW TO TROUBLESHOOT
<p>When I am using my TELOSIN the status indication light doesn't blink in blue or stops completely during treatment</p>	<p>Your TELOSIN isn't charged</p>	<p>Charge your TELOSIN by placing it in the charging cradle</p>
	<p>The treatment surface isn't making good contact with your skin</p>	<p>Make a slow, steady gliding motion for a good skin contact (see page 17)</p>
	<p>Your TELOSIN isn't working properly</p>	<p>Turn your TELOSIN off, then back on. If the problem persists, contact TELOSIN Customer Care</p>

CHAPTER 11: PRODUCT WARRANTY

The warranty period of the product is effective immediately from the day of purchase. If your product is in condition, you can contact our customer service directly. If the product condition is within the scope of warranty, we will arrange replacement or repair for you in accordance with the terms and conditions of the warranty service. Please check <https://www.telosin.com/> for warranty details and charges. We reserve the right to change or amend its content at any time without notice. In case of any disputes, TELOSIN reserves the right of final decision.

11.1 WHAT IS COVERED BY THE LIMITED WARRANTY?

This limited warranty covers defects in materials and workmanship in TELOSIN if you purchased it from telosin.com or authorized retailers only, and activated your warranty by registering your product within 10 days of purchase (see chapter 5.2 in page 17). Your limited warranty is valid for you alone, the original purchaser, and cannot be transferred.

11.2 WHAT IS NOT COVERED BY THIS LIMITED WARRANTY?

This limited warranty does not cover damage, defects, or failure caused by abuse or misuse; improper care; impact or insertion of foreign objects; vandalism; improper storage; improper or incorrectly performed maintenance or repair; application

of harmful chemicals; Acts of God, fire, or water; abrasives; negligence; failure to follow manufacturer's instructions; loss of the TELOSIN ; normal wear and tear; alteration; overuse; professional use; or commercial use.

11.3 WHAT WILL TELOSIN DO IF YOUR TELOSIN IS DEFECTIVE?

If you discover a covered defect in your TELOSIN within your warranty period, contact Customer Care for assistance. If we confirm a defect covered by this limited warranty, it will be TELOSIN'S decision as to whether we will:

(i) replace your TELOSIN with either a new or a refurbished TELOSIN that is the same as or similar to TELOSIN you purchased; or (ii) repair your TELOSIN using either new or refurbished parts. If we find that the defect in your TELOSIN is not covered under this limited warranty, we will notify you about the service alternatives that are available on a fee basis. If we find that your TELOSIN is not defective, we will notify you and return your TELOSIN to you.

All shipping and handling charges are stated at: www.telosin.com

All Limited Warranty services must be authorized and performed by TELOSIN or a service provider authorized by TELOSIN.

11.4 WARRANTY LIMITATIONS AND DISCLAIMERS

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND IS IN ADDITION TO YOUR STATUTORY RIGHTS. YOUR REMEDIES FOR THE BREACH OF THIS LIMITED WARRANTY ARE LIMITED SOLELY TO THE REPAIR AND REPLACEMENT OF YOUR TELOSIN AS SET FORTH IN THIS WARRANTY STATEMENT. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, TELOSINDISCLAIMS ALL IMPLIED WARRANTIES. IF APPLICABLE LAW DOES NOT PERMIT THE DISCLAIMER OF IMPLIED WARRANTIES, THEN THE DURATION OF IMPLIED WARRANTIES ARE HEREBY EXPRESSLY LIMITED TO THE DURATION OF THE EXPRESS LIMITED WARRANTY SET FORTH ABOVE. IN NO EVENT SHALL TELOSINBE LIABLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL, PUNITIVE, OR INDIRECT DAMAGES BASED UPON BREACH OF WARRANTY, BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE OR STRICT PRODUCT LIABILITY), OR OTHERWISE, EVEN IF TELOSINIS ADVISED OR AWARE THAT SUCH DAMAGES MIGHT ARISE. SUCH DAMAGES INCLUDE, BUT ARE NOT LIMITED TO, LOSS OF USE OF THE TELOSIN, COST OF ANY SUBSTITUTE EQUIPMENT, THE CLAIMS OF THIRD PARTIES, OR DAMAGE TO PROPERTY. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL TELOSINBE LIABLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL, PUNITIVE, OR INDIRECT DAMAGES BASED

UPON BREACH OF WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, STRICT PRODUCT LIABILITY, TORT OR OTHER LEGAL THEORY, EVEN IF TELOSINIS ADVISED OR AWARE THAT SUCH DAMAGES MIGHT ARISE. SUCH DAMAGES INCLUDE, BUT ARE NOT LIMITED TO, LOSS OF USE OF THE TELOSIN, COST OF ANY SUBSTITUTE EQUIPMENT, THE CLAIMS OF THIRD PARTIES, OR DAMAGE TO PROPERTY. IF THE APPLICABLE LAW DOES NOT ALLOW LIMITS ON WARRANTIES, OR ON REMEDIES FOR BREACH IN CERTAIN TRANSACTIONS, THE LIMITS IN THIS PARAGRAPH AND THE DISCLAIMER OR EXCEPTIONS FROM WARRANTY MAY NOT APPLY. THIS LIMITATION DOES NOT APPLY TO CLAIMS FOR DEATH OR PERSONAL INJURY CAUSED BY A DEFECT IN THE TELOSIN OR ANY OTHER LIABILITY THAT CANNOT BE EXCLUDED OR LIMITED BY LAW. THESE WARRANTY TERMS, CONDITIONS, AND LIMITATIONS ALLOCATE THE RISKS OF PRODUCT FAILURE BETWEEN TELOSINAND YOU, THE PURCHASER OF THE TELOSIN. THIS ALLOCATION IS RECOGNIZED BY BOTH PARTIES AND IS REFLECTED IN THE PRICE OF THE TELOSIN. BY USING THE TELOSIN YOU ACKNOWLEDGE THAT YOU HAVE READ THESE TERMS, CONDITIONS, AND LIMITATIONS, UNDERSTAND THEM AND ARE BOUND BY THEM.

11.5 PRODUCT CHANGES

TELOSIN reserves the right to make changes and improvements to its products without incurring any obligation to incorporate such improvements in products previously sold.

11.6 NO OTHER WARRANTIES

Unless modified in a writing signed by both parties, these warranty terms, conditions, and limitations are understood to be the complete and exclusive agreement between the parties, superseding all prior agreements and representations, oral or written, and all other communications between the parties relating to the subject matter of these warranty terms. No employee of TELOSIN or any other party (including without limitation distributors, dealers, and retailers) is authorized to make any warranty in addition to those made herein.

11.8 MISCELLANEOUS TERMS

As used in this contract, "we" and "us" refer to TELOSIN. "You" refers to the original purchaser of the TELOSIN. A waiver of strict compliance with any term herein shall not be deemed a continuing waiver or waive any other terms or conditions. We shall be excused from performance to the extent of any delay or inability to perform arising due to weather events, disasters, acts of terror, governmental action or regulation, labor or materials shortages or disputes, or other circumstances not under our control. If any term herein is illegal, invalid, or unenforceable, then such term shall be ignored, but the remaining terms and conditions shall remain in effect.

CHAPTER 12: TECHNICAL SPECIFICATION

BATTERY CHARGER INPUT: 100-240 VAC 50-60 Hz

BATTERY CHARGER OUTPUT: 5V DC, 2.4 A

TYPE OF HEAT SOURCE AND NUMBER: 24 pcs LEDs

DESIGN PRINCIPLE: Led heating therapy

WAVELENGTH: 633 \pm 5nm, 830 \pm 5nm







THERAPEUTIC TEMPERATURE RANGE: up to 41 \pm 2 $^{\circ}$ C/105.8 \pm 35.6 $^{\circ}$ F

STORAGE CONDITIONS: Temperature: minus 40 $^{\circ}$ C to 70 $^{\circ}$ C /minus 40 $^{\circ}$ F to 158 $^{\circ}$ F ,

Relative humidity: 10% - 90% , Atmospheric pressure: 500 to 1060 hPa

OPERATING CONDITIONS: Temperature: 10 $^{\circ}$ C to 35 $^{\circ}$ C / 50 $^{\circ}$ F to 95 $^{\circ}$ F , Relative humidity: 15% to 90% , Atmospheric pressure: 700 to 1060 hPa

DEGREE OF PROTECTION AGAINST ELECTRIC SHOCK: class II

Symbol	Meaning
	Follow operating instructions
	Serial number
	Do not use in wet environment
	Degree of protection against electric type bf applied part
	Ce mark
	Weeee -waste electrical and electronic equipment
IP22	Waterproof ip rating

CHAPTER 13: CUSTOMER SERVICE

See our website for more information: www.telosin.com

Contact Customer Service to report unexpected operations or events, or any other problem with your device. Our contact details are:

- Email: cs@telosin.com

Guidance and manufacturer's declaration – electromagnetic emission – for all EQUIPMENT AND SYSTEMS

1	Guidance and manufacturer's declaration – electromagnetic emission		
2	The TELOSIN426 TELOSIN is intended for use in the electromagnetic environment specified below. The customer or the user of the TELOSIN426 TELOSIN should assure that it is used in such an environment.		
3	Emissions test	Compliance	Electromagnetic environment - guidance
4	RF emissions CISPR11	Group 1	The TELOSIN426 TELOSIN uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment. The TELOSIN426 TELOSIN is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
5	RF emissions CISPR11	Class B	
6	Harmonic emissions IEC 61000-3-2	Class A	
7	Voltage fluctuations / flicker emissions IEC 61000-3-3	Complies	

Guidance and manufacturer's declaration – electromagnetic immunity – for all EQUIPMENT and SYSTEMS


Guidance and manufacturer's declaration – electromagnetic immunity			
The TELOSIN426 TELOSIN is intended for use in the electromagnetic environment specified below. The customer or the user of the TELOSIN426 TELOSIN should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge (ESD) IEC 61000-4-2	± 8 kV contact ± 15 kV air	± 8 kV contact ± 15 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
Electrostatic transient / burst IEC 61000-4-4	± 2 kV for power supply lines	± 2 kV for power supply lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	± 1 kV differential mode	± 1 kV differential mode	Mains power quality should be that of a typical commercial or hospital environment.

<p>Voltage dips, short interruptions and voltage variations on power supply input lines EN 61000-4-11</p>	<p>0 % UT ; 0.5 cycle At 0°,45°,90°,135°, 180°,225°,270°and 315° 0 % UT; 1 cycle and 70 % UT; 25/30 cycles Single phase: at 0° 0 % UT; 250/300 cycle</p>	<p>0 % UT ; 0.5 cycle At 0°,45°,90°,135°, 180°,225°,270°and 315° 0 % UT; 1 cycle and 70 % UT; 25/30 cycles Single phase: at 0° 0 % UT; 250/300 cycle</p>	<p>Mains power quality should be that of a typical commercial or hospital environment. If the user of the TELOSIN426 TELOSIN requires continued operation during power mains interruptions, it is recommended that the TELOSIN426 TELOSIN be powered from an uninterruptible power supply or a battery.</p>
<p>Power frequency (50/60 Hz) magnetic field IEC 61000-4-8</p>	<p>30 A/m</p>	<p>30 A/m</p>	<p>Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.</p>
<p>NOTE UT is the a. c. mains voltage prior to application of the test level.</p>			

Guidance and manufacturer's declaration – electromagnetic immunity – for EQUIPMENT and SYSTEM that are not LIFE-SUPPORTING

Guidance and manufacturer's declaration – electromagnetic immunity

The TELOSIN426 TELOSIN is intended for use in the electromagnetic environment specified below. The customer or the user of the TELOSIN426 TELOSIN should assure that it is used in such an environment.

Immunity test	EN 60601 test level	Compliance level	Electromagnetic environment - guidance
Conducted RF IEC 61000-4-6 Radiated RF IEC 61000-4-3	3 V rms 150 kHz to 80 MHz 6 V in ISM bands between 0,15 MHz and 80 MHz 3 V/m 80 MHz to 2.7 GHz	3 V rms 150 kHz to 80 MHz 6 V in ISM bands between 0,15 MHz and 80 MHz 3 V/m 80 MHz to 2.7 GHz	Portable and mobile RF communications equipment should be used no closer to any part of the TELOSIN426 TELOSIN, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance 80 MHz to 800 MHz $d = \sqrt{\frac{p}{f}}$ where p is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in metres (m). b Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, a should be less than the compliance level in each frequency range. Interference may occur in the vicinity of equipment marked with the following symbol: 

NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic is affected by absorption and reflection from structures, objects and people.

Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the TELOSIN426 TELOSIN is used exceeds the applicable RF compliance level above, The TELOSIN426 TELOSIN should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the TELOSIN426 TELOSIN.

b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3V/m.

**Recommended separation distances between portable and mobile
RF communications equipment and the EQUIPMENT or SYSTEM -
for EQUIPMENT and SYSTEMS that are not LIFE-SUPPORTING**

**Recommended separation distances between
portable and mobile RF communications equipment and the TELOSIN426 TELOSIN**

The TELOSIN426 TELOSIN is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the TELOSIN426 TELOSIN can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the TELOSIN426 TELOSIN as recommended below, according to the maximum output power of the communications equipment

Rated maximum output of transmitter W	Separation distance according to frequency of transmitter m		
	150 kHz to 80 MHz $d = \left[\frac{3.5}{E_{15}}\right]\sqrt{P}$	80 MHz to 800 MHz $d = \left[\frac{3.5}{E_{80}}\right]\sqrt{P}$	800 MHz to 2.7 GHz $d = \left[\frac{7}{E_{800}}\right]\sqrt{P}$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3

10	3.8	3.8	7.3
100	12	12	23

For transmitters rated at a maximum output power not listed above the recommended separation distance d in metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

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