Merlin@home™

Transmitter Model EX1150, EX1150W

USER'S MANUAL





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Introduction

Your doctor has given you the Merlin@home™ transmitter that is part of the St. Jude Medical™ Merlin@home Remote Monitoring System. This manual describes this system and explains how to set up and use the transmitter.

What Does the Merlin@home™ Transmitter Do?

The Merlin@home[™] transmitter conducts your Merlin@home session. During your Merlin@home session, the transmitter reads the information from your implanted device (device) and sends it to a server where your clinic can view it. This information includes:

- The type and serial number of your device
- The settings for your device
- What has happened since your last follow-up session
- Battery status of your device

Your transmitter can perform a status check on your device.

Your device continues to work normally while the transmitter reads your information. Your doctor can use this information to help check the status of your device.

Depending on the transmitter provided by your doctor (either EX1150 or EX1150W) your Merlin@home transmitter works with the following:

Model EX1150

- telephone (landline)
- cellular adapter
- wireless broadband kit

Model EX1150W

- cellular adapter
- wireless broadband kit

NOTES:

- The Merlin@home transmitter model EX1150W is not available in all geographies.
- Only your clinic and Technical Support (page 6) if requested by your doctor, can view the confidential information you send during your Merlin@home session.

Using your Merlin@home™ Transmitter with your Telephone

Note

The following information is applicable if you are using a telephone line to connect the transmitter. If you are using the cellular or wireless broadband adapters to connect the transmitter, a telephone line is not needed.

The Merlin@home™ transmitter plugs into your telephone line, see Setting Up the Transmitter (page 3), and uses the telephone network to send information to the server, where your clinic can view the information. Before your Merlin@home session starts, you must hang up all phones. If someone calls during your session, you receive a Can't Send Information message. For more information, see the Merlin@home Transmitter Quick Start Guide provided with your transmitter.

When the transmitter is not reading or sending information, it is idle. Leaving the transmitter connected to your telephone line does not affect your telephone's normal operation. You can still make and receive calls

Note

At any time during your Merlin@home session, you can interrupt your session to use the telephone. If you do not hear a dial tone when you pick up your telephone handset, hang up and pick up your telephone handset again. If your Merlin@home session is interrupted, the transmitter may display a Can't Send Information message. If so, press the Start button and the transmitter will attempt to send your information at a later time.

To use the Merlin@home™ transmitter, your telephone service provider must support touch-tone dialing. You must use a push-button telephone with a standard (RJ-11) plug. Your telephone wall jack must also accept a standard (RJ-11) plug. If you have an older plug or jack, you can purchase an RJ-11 adapter that allows you to use the transmitter.

Note

- If your telephone is wired into the wall, you cannot use the transmitter unless you
 install standard telephone wall jacks. To do this, contact the telephone company
 for help.
- If DSL shares your telephone line, contact your DSL service provider for a filter to
 prevent any possible interference. Plug the filter into the telephone wall jack and
 plug the phone connector into the filter. For more information on how to use the
 filter, contact your DSL service provider.

CAUTION

The transmitter is designed for use with direct analog telephone lines. It may be damaged by any other type of phone line. See Technical Support (page 6).

Using your Merlin@home™ Transmitter with a Wireless Broadband Kit

The Merlin@home™ transmitter model EX1150 and the Merlin@home™ transmitter model EX1150W can be used with a wireless broadband kit. For more information, see the Set Up Guide provided with your transmitter.

Using your Merlin@home™ Transmitter with a Cellular Adapter

The Merlin@home™ transmitter model EX1150 and the Merlin@home™ transmitter model EX1150W can be used with the cellular adapter provided with your transmitter. For more information, see the Set Up Guide, Quick Start Guide, and the Icons and Connections Guide provided with your transmitter.

Can You Use the Transmitter While Traveling?

The Merlin@home™ transmitter works within your country, but it might not work outside your country. Check with your doctor before traveling with the transmitter. If he or she agrees that it is all right, carefully repackage the transmitter in its original packaging. If you are using a telephone with your Merlin@home transmitter, you may want to purchase an RJ-11 telephone plug adapter

in case you need to plug the transmitter into an older telephone wall jack.

Important Safeguards

Always follow basic safety precautions when using electrical products, especially when children are present. These include:

- Read all instructions before using.
- Keep these instructions.

WARNING

- This transmitter is not a replacement for appropriate medical attention in case of an emergency
- Do not spill any liquid on the transmitter. If you spill any liquid, unplug the transmitter and wipe the liquid off right away. Do not plug the transmitter in until it is completely dry.

To reduce the risk of shock:

- Do not use the transmitter while bathing.
- Do not place or store the transmitter where it can fall or be pulled into a tub or sink.
- Do not place or drop the transmitter into water or other liquid
- Do not reach for a transmitter that has fallen into water. Unplug it immediately.

To reduce the risk of burns, shock, fire, or injury to persons:

- Supervision is necessary when the transmitter is used by, on, or near children.
- Use the transmitter only for its intended use as described in this manual. Do not use attachments not recommended by St. Jude Medical.
- Never operate the transmitter if it is not working properly, if it has been dropped or damaged, or if it has been dropped into water. Contact Technical Support (page 6) for service or replacement instructions.
- Keep the cord away from heated surfaces.
- Do not operate the transmitter on heated surfaces.
- Do not use outdoors or operate where aerosol (spray) products are being used. Do not operate in an oxygen-rich environment (for example, in an oxygen tent or oxygen chamber)
- Do not use the transmitter near flammable substances.

Setting Up the Transmitter

For instructions on how to set up the transmitter, see the Merlin@home Transmitter Icons and Connections Guide and the Merlin@home Transmitter Quick Start Guide provided with your transmitter.

Note

- Place the transmitter on a sturdy, flat, hard surface. The transmitter must be flat on the surface at all times.
- If you do not place your transmitter on your night stand, contact your clinic for a recommendation.

- The Merlin@home transmitter is not magnetic and has no moving parts. However, you should avoid devices which generate a strong electric or magnetic interference (EMI). EMI could interfere with the performance of the transmitter. Moving the source of EMI away from the transmitter or turning the source of EMI off will usually allow the transmitter to return to its normal mode of operation. Sources of EMI may include communication equipment, wireless communication devices, household appliances, and industrial equipment.
- Do not press the Reset button on the back of the transmitter unless requested to do so by Technical Support (page 6).
- Use only St. Jude Medical supplied accessories in the USB port. Additional equipment connected to medical electrical equipment must comply with the respective IEC or ISO standards (e.g. IEC 60950 for data processing equipment). Furthermore all configurations shall comply with the requirements for medical electrical systems (see IEC 60601-1-1 or clause 16 of the 3.1Ed. of IEC 60601-1, respectively). Anybody connecting additional equipment to medical electrical equipment configures a medical system and is therefore responsible that the system complies with the requirements for medical electrical systems. Attention is drawn to the fact that local laws take priority over the above mentioned requirements. If in doubt, consult your local representative or the technical service department.
- Sometimes issues with your phone, cellular adapter, or internet service provider
 may prevent your transmitter from sending your information. Contact Technical
 Support (page 6) or your clinic. Keep the original shipping box in case you need to
 return the transmitter.

Merlin@home™ Sessions and Device Checks

There are two types of Merlin@home™ sessions and device checks:

- Scheduled
- Unscheduled

Note

Do not press the Start button while the Merlin@home transmitter is reading or sending your information.

Scheduled Session

Scheduled sessions and device checks occur automatically if requested by your clinic. Your schedule is defined by your clinician. Most often the information transfer occurs sometime during the night while you sleep. After setting up your Merlin@home™ transmitter, leave it connected at all times and placed on your nightstand or table close to your bed.

Unscheduled Session

An unscheduled session sends your data manually. Conduct an unscheduled session or device check only if your clinician instructs you to do so. For instructions on how to send your data manually, see the Merlin@home™ Transmitter Quick Start Guide provided with your transmitter.

Device Check

To conduct an unscheduled device check:

Do one of the following:

- If only the green light is lit, go to Step 1.
- If the "Stars" icon is lit, go to Step 2.
- 1. Press the Start button. The "Stars" icon lights up.
- 2. Press the Start button for 3 to 4 seconds until you hear two beeps.
- 3. Move close to your transmitter.
- 4. The "Read" icon flashes when the transmitter searches for your device. It will stop flashing but remains lit while the transmitter reads the device and the progress lights will move left to right.
- 5. The "Tower" icon lights up when the transmitter has read your device.
- The "Stars" icon lights up when your device check is complete. The "Stars" icon will turn off after a short time.

Shut Down

To power down the Merlin@home™ transmitter, unplug the power supply from the wall electrical outlet. If using a telephone, you may leave the phone cord from the transmitter plugged into the wall or disconnect it. It should not affect your telephone.

Transmitter Reset

Reset your transmitter only if Technical Support (page 6) instructs you to do so.

Transmitter Messages

Errors may result from variations in telephone equipment, information transmission time, or the quality of the telephone connection. For information on transmitter errors and messages and how to respond to them, see the Merlin@home™ Transmitter Quick Start Guide provided with your transmitter.

Software Updates and Your Transmitter

It is important to keep your transmitter powered on and the connectivity accessory plugged in so that the transmitter can receive occasional automatic software updates. If transmitter connectivity is not maintained, your transmitter's software may not be updated to the current version and your transmitter may no longer be able to transmit or receive information.

Caring for the Transmitter

If necessary, you can clean the outside of the Merlin@home™ transmitter with a cloth dampened with water. Do not clean the transmitter while a session is in progress. The transmitter is classified as IPXO because it is not waterproof. Do not immerse the transmitter in any liquid.

Preventative maintenance, including periodic safety checks, is not required for this device. If there is a problem with the transmitter, contact Technical Support (page 6) for a replacement.

WARNING

The transmitter does not contain any user-serviceable parts. This product complies with medical product regulatory standards. In order to maintain that compliance, do not open the case.

Glossary

Clinic — The place that views your information after the Merlin@home™ transmitter sends your information to the server.

Device— Your implanted device, also known as an ICD (implantable cardioverter-defibrillator), CRT-D (cardiac resynchronization therapy defibrillator), pacemaker, or CRT-P (cardiac resynchronization therapy pacemaker).

Information — The information stored in your device. The information includes your device type and serial number, settings, and battery status.

Merlin@home session — A remote monitoring session in which your information is sent to the server, where the clinic can view your information.

Server — The place where your information from the Merlin@home session is sent.

Transmitter — The part of the Merlin@home Remote Monitoring System that reads the information in your device and sends it to the server.

Technical Support

For Merlin@home™ transmitter issues:

Monday through Friday (8AM to 8PM Eastern Standard Time)

- 1 877 696 3754 (1 877 MY MERLIN) (toll-free within North America)
- 1 818 493 4258

Monday through Friday (8AM to 5PM Central European Time)

 46 8 474 4756 (Sweden) (Support in English and Swedish. For additional assistance, contact your clinic.)

Indications

The Merlin@home™ transmitter is indicated for use by patients with supported St. Jude Medical implanted devices.

Contraindications

The Merlin@home[™] transmitter is contraindicated for use with any implanted medical device other than supported St. Jude Medical implanted devices.

Symbols

Table 1. The following symbols may be found on the product or product label:

| Symbol | Description |
|-------------|-------------|
| Transmitter | Transmitter |

| Symbol | Description |
|--|---|
| | Contents |
| | Model EX1150, EX1150W Merlin@home™ transmitters |
| | Phone cord and splitter (phone connector) |
| | Product literature |
| (i | Consult instructions for use |
| manuals.sjm.com | Follow instructions for use on this website |
| San Market State S | USB wireless adapter |
| | USB wireless adapter's clip and USB cable |
| | Wireless access point |
| | Wireless access point's ethernet cable |
| | Wireless access point's power supply |
| *** | Manufacturer |

| Symbol | Description |
|--------------------|--|
| © | Manufacturing facility |
| EC REP | Authorized Representative in the European Community |
| Australian Sponsor | Australian Sponsor |
| (E) | Follow the instructions for use |
| | Direct current |
| | To identify the terminals to which a telephone adapter is to be connected |
| E | Transmitter works with a landline telephone |
| $((\bullet))$ | Interference may occur in the vicinity of this equipment |
| | Class II equipment. Meets safety requirements specified for Class II equipment according to IEC 60601-1. |
| \longrightarrow | To identify a combined input/output connector or mode |
| SN | Serial number |
| PN | Part number |
| <u></u> | Transmitter works with a wireless broadband kit |

| Symbol | Description | | |
|-----------------|--|--|--|
| | Transmitter works with a cellular adapter | | |
| | Transmitter does not work with a landline telephone | | |
| R | For prescription use only | | |
| * | Temperature limitations | | |
| Ø | Humidity limitation | | |
| C SUD US | TÜV Listed, US and Canada. Conforms to UL60601-1. Certified to CAN/CSA C22.2 No.601.1-M90 | | |
| C E 0123 | European conformity, affixed according to the relevant provisions of AIMD directive 90/385/EEC and RE directive 2014/53/EU Annex III. Hereby, St. Jude Medical declares that this device complies with the essential requirements and other relevant provisions of these directives. | | |
| | The full text of the European Union RE directive 2014/53/EU declaration of conformity is available at the following internet address: www.sjmglobal.com/euconformity. | | |
| | This product operates in the 2.4-2.4835 GHz band with an RF output power of less than 9.2 mW EIRP. | | |
| - | This product operates in the 402-405 MHz band with an effective radiated power of less than 25 μ W ERP. | | |
| | Australian Communications and Media Authority (ACMA) and New Zealand Radio Spectrum Management (RSM) Regulatory Compliance Mark (RCM) | | |
| | This equipment is certified for type certification pursuant of Article 38-24 of the Japan Radio Law | | |
| | Korea Certification mark for electrical devices | | |

| Symbol | Description | |
|--------|---|--|
| X | Affixed to this device in accordance with European Council Directives 2002/96/EC. | |
| _ | These directives call for separate collection and disposal of electrical and electronic equipment. Sorting such waste and removing it from other forms of waste lessens the contribution of potentially toxic substances into municipal disposal systems and into the larger ecosystem. | |
| | Return the device to St. Jude Medical at the end of its operating life. | |
| IP21 | Ingress Protection Rating. "2" indicates the Merlin@home enclosure is protected against a solid object > 12.5 mm. "1" indicates the enclosure is protected against vertically falling drops of water. | |

Technical Information

The Merlin@home™ transmitter is Class II medical equipment and complies with IEC60601-1:2012 and UL60601-1:2012 and CAN/CSA-C22.2 No. 601.1-M90. The Merlin@home transmitter is a Canadian ICES-003 Class B digital apparatus. Operation is subject to the following two conditions: 1) This device may not cause interference, and 2) this device must accept any interference that may cause undesired operation of the device.

Note

- There are no user-serviceable parts in the Merlin@home transmitter. No calibration is required. Do not modify the Merlin@home transmitter.
- When used under normal operating circumstances, this equipment generates no pollution.

Table 2. Electrical ratings

| Input/Output | Rating |
|-----------------------------|-----------------------|
| Transmitter input | 100-240 VAC, 50-60 Hz |
| Power consumption (maximum) | 350 - 150 mA |
| Power consumption (standby) | 4 VA |

Table 3. Storage conditions

| Parameter | Condition |
|------------------------------------|--------------|
| Minimum Temperature | -4°F (-20°C) |
| Maximum Temperature | 158°F (70°C) |
| Maximum Humidity | 90% |
| Minimum Atmospheric Pressure (hPa) | 500 |
| Maximum Atmospheric Pressure (hPa) | 1060 |

Table 4. Operating conditions

| Parameter | Condition |
|------------------------------------|--------------|
| Minimum Temperature | 50°F (10°C) |
| Maximum Temperature | 104°F (40°C) |
| Maximum Humidity | 75% |
| Minimum Atmospheric Pressure (hPa) | 700 |
| Maximum Atmospheric Pressure (hPa) | 1060 |

The device may take up to two hours to reach an operating temperature of 20°C (68°F) from the minimum storage temperature of -20°C (-4°F). The device may take up to two hours to reach an operating temperature of 20°C (68°F) from the maximum storage temperature of 70°C (158°F).

Transmitter Accessories

Telephone accessories included with the transmitter are (model EX1150 only):

- Telephone cable
- Phone connector

Optional transmitter accessories are:

- Model EX1151 Wireless USB Adapter series
- Model FX1170 Wireless Broadband¹ Kit series²

Note

As with all wireless communications, there is a very small chance that transmitted information might be intercepted. For added security, your transmissions to the secure server are encrypted.

Electromagnetic Compatibility

The Merlin@home[™] transmitter requires special precautions with regard to electromagnetic compatibility (EMC) and should be used in accordance with the information provided in this manual.

The Merlin@home transmitter complies with the requirements of the international EMC standard IEC 60601-1-2 when used with the cables listed in Transmitter Accessories (page 11).

The Merlin@home transmitter is intended for use in the electromagnetic environment specified in Tables 5 through 8. The user should ensure that it is used in such an environment.

WARNING

The Merlin@home transmitter complies with the limits for medical devices contained in IEC/EN 60601-1-2.

However, the Merlin@home transmitter may cause radio interference or may disrupt the operation of nearby equipment. It may be necessary to mitigate this effect by reorienting or relocating the receiving device or shielding the location.

¹ St. Jude Medical is the distributor of products included in the Model EX1170 Wireless Broadband Kit series. The products are CE marked by their respective manufacturers.

² You can use an equivalent access point instead of the wireless access point provided in the Model EX1170 Wireless Broadband Kit series. For more information, see Technical Support.

Table 5. Guidance and manufacturer's declaration - electromagnetic emissions

| Test | Compliance | Electromagnetic Environment - Guidance | |
|---|------------|---|--|
| RF Emission CISPR 11 | Group 1 | The Merlin@home™ transmitter must emit electromagnetic energy in order to perform its intended function. Nearby electronic equipment may be affected. | |
| RF Emission CISPR 11 | Class B | The Merlin@home transmitter is suitable for use in all establishments, including domestic establishments | |
| Harmonic emissions IEC 61000-3-2 | Class A | and those directly connected to the public low-voltage power supply network that supplies buildings used for | |
| Voltage fluctuations/flicker emissions IEC 61000-3-3 | Complies | — domestic purposes. | |

Table 6. Guidance and manufacturer's declaration - electromagnetic immunity

| Test | IEC 60601 Test Level (Actual Level) ³ | Electromagnetic Environment - Guidance |
|--|--|---|
| Electrostatic Discharge (ESD) IEC 61000-4-2 | ±8 kV contact (±8 kV contact) | None |
| | ±15kV air (±15 kV air) | |
| Electrical fast transient/burst IEC 61000-4-4 | ±2 kV for input/output lines (±2 kV for input/output lines) | None |
| Power Frequency (50/60 Hz) Magnetic Field IEC 61000-4-8 | 30 A/m (30 A/m) | None |

Table 7. Guidance and manufacturer's declaration - electromagnetic immunity (conducted RF and radiated RF)

| Test | IEC 60601 Test Level ⁴ | Immunity Compliance Level | Electromagnetic Environment - Guidance |
|--------------------------------------|--------------------------------------|---------------------------------|--|
| Conducted RF IEC 61000- 4-6 | 3 Vrms 150 kHz to 80 MHz | 3 Vrms | Portable and mobile RF communications equipment should be used no closer to any part of the Merlin@home transmitter, including cables, than the recommended separation distance. |

 $^{^{\}rm 3}$ Figures in parentheses are the immunity compliance levels for each test. $^{\rm 4}$ At 80 MHz and 800 MHz, the higher frequency range applies.

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Radiated RF 3 V/m IEC 61000- 80 MHz to 4-3 2.5 GHz Recommended separation distance:

 $d = 1.2 \sqrt{P}$

3 Vrms

 $d = 1.2 \sqrt{P}$ (80 MHz to 800 MHz)

 $d = 2.3 \sqrt{P}$ (800 MHz to 2.5 GHz)

where ${\bf P}$ is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and ${\bf d}$ is the recommended separation distance in meters (m).

Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey*, should be less than the compliance level in each frequency range. Interference may occur in the vicinity of equipment marked with the following symbol:



*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 of the location in which the Merlin@home transmitter is used exceeds the applicable RF compliance level above, the Merlin@home transmitter should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the Merlin@home transmitter.

Note

The Merlin@home transmitter is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The user of the Merlin@home transmitter can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Merlin@home transmitter as recommended below in Table 8, according to the maximum output power of the communications equipment. For transmitters rated at a maximum output power not listed in Table 8, the recommended separation distance (d) in meters 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.

Table 8. Recommended separation distances between portable and mobile communication equipment and the Merlin@home transmitter and St. Jude Medical RF device

| Rated maximum output power of | Recommended separation distance according to frequency of transmitter (m) ⁵ | | | |
|-------------------------------|--|--------------------------------|--------------------|--|
| transmitter (W) | 150 kHz to 80 MHz | 80 MHz to 800 MHz ⁶ | 800 MHz to 2.5 GHz | |
| | d = 1.2 √P | d = 1.2 √P | d = 2.3 √P | |
| 0.01 | 0.12 | 0.12 | 0.23 | |
| 0.1 | 0.38 | 0.38 | 0.73 | |
| 1.0 | 1.2 | 1.2 | 2.3 | |
| 10.0 | 3.8 | 3.8 | 7.3 | |
| 100.0 | 12 | 12 | 23 | |

Radio Frequency Information

MICS band: 402-405 MHz. The effective radiated power is below the limits as specified in:

- Europe: EN ETSI 301 839
- USA: FCC 47 CFR Part 95.601-95.673 Subpart E, 95.1201-95.1219

2.45 GHz. The effective radiated power is below the limits as specified in:

- Europe: EN ETSI 300 328
- USA: FCC 47 CFR Part 15.249

The following is applicable to Canada only:

This device may not interfere with stations operating in the 400.150-406.000 MHz band in the meteorological aids, meteorological-satellite, and earth exploration-satellite services and must accept any interference received, including interference that may cause undesired operation.

Note

Maintain a reasonable distance between other electronic equipment and the Merlin@home™ transmitter.

WARNING

This transmitter is authorized by rule under the Medical Implant Communications Service (part 95 of the FCC Rules) and must not cause harmful interference to stations operating in the 400.150 - 406.000 MHz band in the Meteorological Aids (that is, transmitters and receivers used to communicate weather data), the Meteorological Satellite, or the Earth Exploration Satellite Services and must accept interference that may be caused by such aids, including interference that may cause undesired operation. This transmitter shall be used only in accordance with the FCC Rules governing the Medical Implant Communications Service. Analog and digital voice communications are prohibited. Although this transmitter has been approved by the Federal Communications Commission, there is no

⁵ These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.

⁶ At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

guarantee that it will not receive interference or that any particular transmission from this transmitter will be free from interference.



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