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You can read the recommendations in the user guide, the technical guide or the installation guide for BRAUN THERMOSCAN TYPE 6012. You'll find the answers to all your questions on the BRAUN THERMOSCAN TYPE 6012 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual BRAUN THERMOSCAN TYPE 6012

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BRAUN

IRT 3020

IRT 3520



ThermoScan®

Type 6012
Type 6013



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Manual abstract:

braun.com Manufactured by: Braun GmbH Frankfurter Str. 145 61476 Kronberg / Germany 6-012-136/00/X-05 USA Printed in Germany IRT 3520 12 1 13 2 3 4 5 Configuration A ThermoScan 11 6 7 8 b oS ca n / mem a 9 10 13 12 Configuration B IRT 3020 b 11 a ThermoScan Th erm oS ca n 13 12 Configuration A 8 / mem Th erm 12 13 Configuration B English The Braun ThermoScan thermometer has been carefully developed for accurate, safe and fast human body temperature measurements in the ear. The shape of the thermometer prevents it from being inserted too far into the ear canal to damage the eardrum.

However, as with any thermometer, proper technique is critical to obtaining accurate temperatures. Therefore, please read all instructions carefully and thoroughly before using this product and keep the manual handy for future reference. Important · The operating ambient temperature range for this thermometer is 50 °F to 104 °F (10 °C to 40 °C). · Do not expose the thermometer to temperature extremes below - 4 °F or over 122 °F (- 20 / 50 °C) or excessive humidity (> 95 % RH non-condensing). · This thermometer must only be used with genuine Braun ThermoScan Lens Filters (LF 40). Never use this thermometer without a new, clean lens filter attached.

· If the thermometer is ever accidentally used without a lens filter attached, clean the lens (see «Care and cleaning»). · Always store thermometer in travel case, protective cover or plastic case. · Basic safety precautions should always be observed, especially when using the thermometer on or near children and disabled persons. · Keep lens filters out of reach of children. · This thermometer is intended for home use only.

@@@ However, this is not necessarily the same as an oral temperature measured at the same time. Why measure in the ear? The goal of thermometry is to measure core body temperature, which is the temperature of the vital organs. Clinical studies have shown that the ear is an excellent site to measure body temperature, since ear temperatures reflect core body temperature. The eardrum shares blood supply with the temperature control center in the brain, the hypothalamus, allowing changes in body temperature to be reflected sooner in the ear than at other sites. 4 · Axillary temperatures reflect skin temperature which may not indicate core body temperature.

· Oral temperatures are influenced by drinking, eating and breathing through the mouth. · Rectal temperatures often lag behind changes in core body temperature and there is a risk of cross-contamination. Body temperature Normal body temperature is a range. The following table1 shows that ranges of normal also vary by site. Therefore, readings from different sites, even if taken at the same time, should not be directly compared. Axillary: Oral: Rectal: ThermoScan2: 94.5 °F - 99.1 °F 95.9 °F - 99.5 °F 97.

9 °F - 100.4 °F 96.4 °F - 100.4 °F 34.7 °C - 37.3 °C 35.5 °C - 37.5 °C 36.6 °C - 38.0 °C 35.

8 °C - 38.0 °C · Also, a person's normal temperature range tends to decrease with age. The following table shows normal ThermoScan ranges by age. Normal ThermoScan temperature ranges2 0 - 2 years 3 - 10 years 11 - 65 years > 65 years 97.5 °F - 100.

4 °F 97.0 °F - 100.0 °F 96.6 °F - 99.7 °F 96.

4 °F - 99.5 °F 36.4°C - 38.0 °C 36.1°C - 37.8 °C 35.9°C - 37.6 °C 35.8°C - 37.5 °C · However, the range of normal also varies from person to person and fluctuates throughout the day.

It is therefore important to determine your and your family members' normal temperature ranges. This is easily done using Braun ThermoScan. Practice taking temperatures on yourself and healthy family members to determine their normal temperature ranges. Note: When consulting your physician, communicate that the ThermoScan temperature is a temperature measured in the ear and if possible, note the individual's normal ThermoScan temperature range as additional reference. 1. Chamberlain, J.M., Terndrup, T.E., New Light on Ear Thermometer Readings, Contemporary Pediatrics, March 1994. 2. Chamberlain, J.M., et al., Determination of Normal Ear Temperature with an Infrared Emission Detection Thermometer, Annals of Emergency Medicine, January 1995.

5 Product description 1. 2. 3. 4. 5.

6. 7. 8. 9. 10. 11. 12. 13. Lens filter Probe tip Probe Lens filter detector Lens filter ejector Display (LCD) LCD light button (IRT 3520 only) /mem button (On/memory function) Battery door lock Battery door Activation button Label Travel case/protective cover/storage pouch (depending on configuration) Package components Braun ThermoScan thermometer Use and Care manual Quick Reference Guide Lens filters (20, plus one on the thermometer) Owner registration/warranty card Additional items may be included as noted on outer packaging · Label The first time you use the thermometer, please make sure to apply the special label included in the package, in the language of your choice (Item 12 on page 3). How to use Braun ThermoScan 1.

Always make sure a new, clean lens filter is in place to help ensure an accurate reading. The thermometer will not function without a lens filter attached (see Changing the lens filter). 2. Press the /mem button. The LCD (liquid crystal display) is activated, showing all segments. When the ready symbol is displayed the thermometer is ready for use. 6 To help ensure an accurate temperature reading, use the following technique: If you are right handed, hold the thermometer in the right hand and take the temperature in the right ear. If you are left handed, hold it in the left hand and use the left ear. 3. Perform an ear tug to straighten the ear canal.

This gives the thermometer a clear view of the eardrum. Children under 1 year: Pull the ear straight back. Children aged 1 year to adult: Pull the ear up and back. An ear tug is best performed by using your free hand to grasp the outer edge of the top half of the ear. To take your own temperature, wrap your free hand around the back of your head and grab your ear from behind.

4. While tugging the ear, fit the probe snugly into the ear canal as far as possible and press the activation button. Release it when you hear a beep. This is the Temp Beep that confirms the end of measurement. 5.

Remove the thermometer from the ear canal. The LCD displays the temperature measured. 6. Replace the lens filter after each measurement: press the ejector button and put on a new, clean lens filter. 7. A new measurement can be taken as long as the ready symbol is shown. If no button is pressed within 2 minutes, the thermometer will turn off automatically. 7 Note: In the following situations, it is recommended that you take three temperatures in the same ear. If they differ, use the highest reading.



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· Infants in the first 90 days of life.

· Children under three years of age who have a condition such as a compromised immune system and for whom the presence or absence of fever is critical. @@@Therefore, always take the temperature in the same ear. @@@@To enter the memory mode, press the /mem button. @@@@To quit the memory mode, press the /mem button again. IRT 3520 This model allows you to store up to 8 temperatures. @MEM 1). When releasing the /mem button, the stored temperature is displayed. @Only the first empty memory cell will be displayed. @@@@Release the /mem button to return to the ready symbol. @@@@Check the lens for any damage.

@@Caution: Do not touch the tip of the probe or lens filters when installing. Fingerprints, ear wax, dust and other soiling compounds reduce the transparency, resulting in lower temperature readings (see also Care and cleaning). Should you run out of lens filters and need to take a temperature, you may use the following lens filter cleaning procedure: · Clean the lens filter without removing it from the thermometer with a soft cloth or cotton swab moistened with alcohol. Do not use hot or boiling water. · Dry completely with a soft cloth before reusing.

· Replace lens filter as soon as possible with a new one (LF 40). · Additional lens filters (LF 40) are available at most stores 10 carrying Braun ThermoScan thermometers or at Braun Service Centers. · If you have accidentally placed the thermometer in your ear without a lens filter in place, be sure and clean the probe (see «Care and cleaning» and then apply a clean lens filter. Care and cleaning The probe tip is the most delicate part of the thermometer. It has to be clean and intact to ensure accurate readings.

If the thermometer is ever accidentally used without a lens filter, clean the lens as follows: · Hold the appliance with the probe tip facing down to prevent liquid from entering the probe tip area. Very gently wipe the surface with a cotton swab or soft cloth moistened with alcohol. · After cleaning, allow at least 45 minutes drying time before reattaching a new, clean lens filter and taking a temperature. act, a fever can be very beneficial, and helps our immune system work more effectively. A fever should be evaluated in the light of other physical symptoms. With the exception of newborn infants, the presence of fever, without any other symptoms of illness, or in a child who is behaving normally may not be cause for concern. On the other hand, a physician should be consulted in the following situations: - vomiting - diarrhea - changes in appetite, activity or breathing, or - with children who are irritable, lethargic or unusually sleepy. 13 Some people, like the elderly, infants under 90 days of age, those with compromised immune systems, or persons who take steroids, for example are often unable to build a response to illness or environmental conditions. These individuals may not have a fever when they are ill, or their elevated temperature may be lower than expected for the severity of their illness. Other medications such as anti-inflammatories and some analgesics may also mask fever.

The presence or absence of fever should rarely be used as the only measurement of the significance of illness. Your physician should be contacted whenever there is a question about your family's health. Antipyretics, like acetaminophen or ibuprofen, are usually recommended to relieve the aches and associated symptoms of fever, not the fever itself. Febrile seizures, or convulsions, which usually occur in children six months to six years of age, are thought to occur not because a fever is present, but because of the rate of rise of the child's temperature. Call your physician if your child has a febrile seizure or you desire further information. Use of the Braun ThermoScan thermometer is not intended as a substitute for consultation with your physician. 14 Product specifications Displayed temperature range Operating ambient temperature range Display resolution 93.2 °F -108 °F (34 °C - 42.2 °C) 50 °F -104 °F 0.1 °F or °C (10 °C - 40 °C) Accuracy for patient temperature range Maximum Laboratory Error 96.

8 °F -102.2 °F (36 °C - 39 °C): ± 0.4 °F ± 0.2 °C outside this range: ± 0.5 °F ± 0.

3 °C Long term storage ranges Temperature: Humidity: Battery life: - 4 °F to 122 °F (- 20 °C to 50 °C) 95 % non-condensing 2 years / 1000 measurements This infrared thermometer meets requirements established in ASTM Standard E 1965-98 (for the thermometer system [thermometer with lens filter]). Full responsibility for the conformance of the product to the standard is assumed by Braun GmbH, 61476 Kronberg, Germany. ASTM laboratory accuracy requirements for the thermometer only (not including a lens filter) in the display range of 98.8 °F to 102.2 °F (36 °C to 39 °C) for infrared thermometers is ± 0.

4 °F (± 0.2 °C), whereas for mercury-in-glass and electronic thermometers, the requirement per ASTM Standards E 667-86 and E 1112-86 is ± 0.2 °F (± 0.1 °C). This appliance conforms to the following standards: DIN EN 60601-1: 3/96 «Medical electrical equipment» Part 1: General requirements for safety DIN EN 12470-5: 2003 «Clinical thermometers» Part 5: Performance of infrared ear thermometers (with maximum device) TYPE BF EQUIPMENT Attention, consult MEDICAL ELECTRICAL EQUIPMENT ACCOMPANYING CLASSIFIED BY UNDERWRITERS LABORATORIES INC.® DOCUMENTS WITH RESPECT TO ELECTRIC SHOCK, FIRE AND MECHANICAL HAZARDS ONLY IN ACCORDANCE WITH UL 2601-1 / CAN CSA C22.2 No.601.1 10HK Internally Powered Equipment Continuous Operation Not Protected against Ingress of Water U.S.

Patent No. 5,088,834 Other Patents Pending MEDICAL ELECTRICAL EQUIPMENT needs special precautions regarding EMC. For detailed description of EMC requirements please contact the Braun ThermoScan Customer Service at 1-800-327-7226. Portable and mobile RF communications equipment can affect MEDICAL ELECTRICAL EQUIPMENT. In the unlikely event you experience any difficulty using the Braun ThermoScan thermometer, simply call us toll free at 1-800-327-7226. 15 Service The Braun ThermoScan thermometer has a limited three year warranty. Should service be required during or after the warranty period, you must call Braun ThermoScan's Customer Service Department at 1-800-327-7226 to obtain a return authorization number and shipping address. @@@Send the Braun ThermoScan thermometer prepaid and insured. Note: Shipping address varies by country. @@@@This product is not warranted when used in a professional environment.

In no event shall Braun be liable for any special, incidental, indirect or consequential damages in connection with the purchase or use of this product or costs over the original cost of the product.



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If the product should become defective within the warranty period, contact Braun ThermoScan's Customer Support Department at 1-800-327-7226 for repair or replacement at no charge. Braun reserves the right to replace a defective product with the most comparable product currently available. This product has a five year minimum expected lifetime. While this warranty gives you specific legal rights, you may also have other rights which vary from state to state/province to province.

16.



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