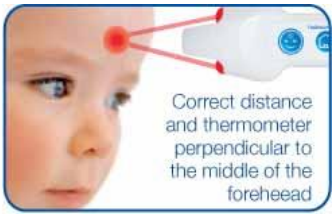
THERMOFOCUS® 01500A3

THERMOFOCUS® *is the first Non-Contact thermometer in the world and still the only thermometer (a part our VisioFocus range), that measures the correct distance for readings.*

This is important because if the distance between the thermometer and object is correct, the temperature will be correct; conversely if the distance is not correct then temperature readings change in an uncontrollable way.
This is the reason that Thermofocus® was designed with an exclusive and patented aiming system to indicate the correct distance and the correct point where to take the temperature.

Body temperature is measured by pointing Thermofocus® at the center of the forehead. The right distance between the skin and the thermometer for a correct measurement is easily determined thanks to a LED system emitting two light beams (normal light which is totally safe).

As the thermometer is moved closer to the skin and reaches the right distance (approx. cm 3), the two beams converge to form a single spot. When you see two light beams the device is too far or too close to the person.



WHY THIS NEW PACKAGING OF THERMOFOCUS®

As the economical situation in the world continues to be not so good, we are introducing in the market a less expensive version of our Thermofocus® 01500A3.
Indeed this is a special version, where the device is exactly the same of the normal 01500A3, but the cost is minimized because we have eliminated some accessories:

- In the packaging it is not included the Instructional DVD that is present in other models of Thermofocus: the clients can download all the section of the DVD from our website http://www.tecnimed.it/movie.html

- In the packaging the batteries are not included: please note that with all our products we are supplying good quality batteries, that are expensive. However, instead to supply poor batteries, as usually all the competitors do, we are not providing the batteries at all, in order to reduce the cost to the essential. The clients can buy separately the batteries they want. Usually the clients have the batteries at home. However if you really need the batteries we can supply them.

- As there will be not the DVD, the clam shell is smaller and so also the packaging cost and the shipment cost are smaller. And the units will require a smaller space on the shelves, particularly a reduced width that we think is interesting for all the stores.

Technical sheet 01500A3 model

Product name:	Thermofocus
Description :	Non-contact clinical thermometer
Model :	015000A3.
Manufacturer :	Tecnimed srl, Vedano O. (VA) Italia
Project :	Tecnimed srl, Vedano O. (VA) Italia
Patent ownership :	Tecnimed srl, Vedano O. (VA) Italia
CE classification:	Class IIa Medical Device CE 0051
Extra-Europe certifications:	FDA (USA), TGA (Australia), Koseisho (Japan) KFDA (Korea), SFDA (China), etc.
Accordance:	CE approved according to 93/42/EEC Directive and s.m.i, Quality System ISO 9001:2015, ISO 13485:2016 EN 60601-1, EN 60601-1-2, EN 60601-1-6, EN 60601-1-11 UNI CEI EN ISO 14971:2012 ASTM (American Society for testing Materials) E 1965-98(2009) Accordance with RoHS (Pb-free) directive

Technical background

All objects and living beings emit infrared radiations of varying wavelength in relation to their surface characteristics. Particularly, the human body emits infrared radiations of wavelength between 5 and 14 micrometers.
The Thermofocus® technology is based on the use of a sensor (Thermopile) that emits a signal when activated by infrared radiations. The signal is amplified and elaborated by a sophisticated microprocessor in accordance with the ambient temperature until obtain a temperature value that is comparable with the oral temperature (or rectal or axilla depending on the device attitude).

Features

Thermofocus® 01500A3 is ideal for families and doctors, to take exact body-temperature measurements, simply getting the thermometer closer to the forehead's centre, without even touching it.

The face button allows you to take body temperature.

The home button allows you to take the temperature of objects and liquids from 1 to 55°C (33.8-131°F) such as baby's bottles, soups, the bath's water, a cold drink, wine, coffee and so on.
“Mem” button allows you to recall the last 9 readings.
There is no need to concern if the aiming lights are pointed into the eyes: the beams are not laser lights and are absolutely harmless.
In case the subject has a perspiring forehead or is crying (i.e. a child) or for elderly people – especially with wrinkled forehead (a low supplying of blood may cause a low temperature) - or with oxygen mask, the measurement must be taken on alternative areas such as preferably scanning one of the eyes or of the closed eyelid. If this measurement is not feasible (i.e. due to inflammation, surgery or other) the third recommended area to measure the body temperature is on the neck in correspondence with the jugular vein.

Thermofocus® is multipurpose

Thermofocus® is **6 in 1** as you can take the body temperature as well as the temperature of the feeding bottle, the soup, the water of the bath, the room temperature, as well as any object from 1 to 55°C (33.8 to 131 °F).
A doctor can use Thermofocus® to scan the temperature of a certain area of the skin and comparing with the area around or with the symmetrical part of the body (the two legs, the two feet, etc.), it is possible to find anomalies due to inflammations, blood circulation problems, diabetes, may be also skin cancers.
Of course it is also possible to use Thermofocus on open wounds (and it is also possible to use on internal organs during surgical operation because there is no contact at all).

The only necessary maintenance is to protect the gilt wave-guide (24K gold) with its protective cap, when the device is not in use, in order to avoid entrance of dust.

Stabilization in environment temperature

Like every infrared thermometer, Thermofocus® need to adapt itself to the ambient temperature. The difference is that Thermofocus®, once again unique in the world, has two exclusive and patented systems to fast adapt itself to the environment: the Automatic Quick Calibration System (AQCS) and the Manual Quick Calibration System (MQCS). The MQCS is very useful in case of professional use or use in pandemic situations.

Patents

Thermofocus® is protected by the following patents: MI 1.284.119, EP 0909.377, US 6.196.714, IL 127.876, JP 504.769/98, EP 1.283.983, US 7.001.066, JP 3.863.919 and other registered international patents.

CLAM-SHELL

The clam shell is standing by itself on the shelf or can be hung.

The batteries are not normally included. We can supply on demand inside the clam shell.

TECHNICAL CHARACTERISTICS

THERMOFOCUS® 01500 A3	
LED lights color	Red / Amber
Room temperature detection	√
AQCS (Automatic Quick Calibration System)	√
MQCS (Manual Quick Calibration System)	√
Measurement modes (according to reference temperature)	oral – rectal – axilla or, alternatively “core temperature”
Batteries (NOT included)	4 AAA/LR03 type, preferably alkaline
Batteries life (according to use)	up to 10.000 measurements
Number of buttons	3
Weight	47 grams without batteries
Forehead measuring range:	34/42.5°C (93.2/108.5°F)
General measuring range (apart from forehead):	1/55°C (33.8/131°F)
Room temperature working range: measurement on the forehead	10/40°C (50/104°F) *
Room temperature working range: other measurements	5/40°C (41/104°F) *
Resolution	0.1°C (0.1°F)
Accuracy level (in instrumental tests according to ASTM E 1965-98(2009) standard): *	
from 36 to 39°C (96.8/102.2°F) =	+/-0.2°C (+/-0.4°F)
from 34 to 35.9°C (93.2/96.6°F) =	+/-0.3°C (+/-0.5°F)
from 39.1 to 42.5°C (102.4/108.5°F) =	+/-0.3°C (+/-0.5°F)
from 1.0 to 19.9°C and from 42.3 to 55.0°C =	+/-1.0°C
(from 33.8 to 67.9°F and from 108.1 to 131°F) =	(+/-1.8°F)
from 20 to 33.9°C =	+/-0.3°C
(from 68.0 to 93.0°F) =	(+/-0.5°F)
Warranty	2 years
Distance of operation from the subject fixed through optical system: about cm 3 (1.2 inch)	

* Thermofocus® is able to work even in environments with temperature below 10°C, but the accuracy and operating range are not guaranteed and the value read is alternated to "Lo.5".

TECNIMED ITALY
Manufacturing Ideas

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