

EN • Soft FX Elite (Mel-Hyd FX; Ela FX; pH FX; Cam FX; Temp FX)

Device for aesthetic use. Does not perform diagnosis and treatments.

Cod. 130002-G

Manufacturer

Callegari srl

Description and Intended Use

Soft FX is a device used to establish and assess the main skin and hair parameters, for aesthetic, non diagnostic purposes. The device is intended to be used in chemist's shops, OTC retailers, beauty salons, spas, wellness centres, aesthetic medicine centres and other locations where skin and hair analyses are performed for purely aesthetic reasons. The instrument does not require specialised personnel.

Soft FX skin analysis system consists of the following components: Machine body, Melanin – Hydration probe (MEL-HYD FX), Elasticity probe (ELA FX), pH probe (pH FX), microcamera (CAM FX), sebum sensitive strips (TAPE FX) and temperature probe (TEMP FX).

TECHNICAL FEATURES OF THE CENTRAL MACHINE BODY

DISPLAY	TFT 10.1" with capacitive multi-touch screen
FULL-FACE CAMERA	2592x1944 max resolution Auto focus 60° View Angle
CONNECTIVITY	Ethernet, WiFi and WiFi Hotspot. Bluetooth Low Energy for probes connection
INTERNAL MEMORY	4 Gb
EXTERNAL MEMORY	64 Gb
EXTERNAL SCREEN	HDMI
INTERFACE	2xUSB
WEIGHT	3 Kg
DIMENSIONS	310 (w) x 170 (d) x 225 (h) mm
POWER SUPPLY	12V DC – 5 A
ENERGY INPUT	Max. 60 Watt
OPERATING CONDITIONS	Temperature 15 – 30 °C (Relative humidity: 5 – 85 % uncondensed) The equipment has been evaluated for safety purpose in a max ambient temperature of 40 °C. The device can perform measurement object of its purpose in a max ambient temperature of 30 °C.
STORAGE CONDITIONS	Temperature 0 – 50 °C (Relative humidity: 5 – 85 % uncondensed)
COMPLIANCE	CE marking UKCA marking
CERTIFICATION	MET Marking

TECHNICAL FEATURES MEL-HYD FX: melanin – hydration probe

APPEARANCE	Pen-type probe in PC/ABS with sensors on both tips and magnetic coupling that makes it possible to place it in the universal probe support.
WEIGHT	90 g
DIMENSIONS	195(w) x 32(d) x 37(h) mm
OPERATING CONDITIONS	Temperature 15 – 30 °C (Relative humidity: 10 – 90 % uncondensed)
STORAGE CONDITIONS	Temperature 0 – 50 °C (Relative humidity: 10 – 90 % uncondensed)
CONNECTIVITY	Bluetooth Low Energy (BLE)
POWER SUPPLY	Wireless charging
ENERGY INPUT	Max 1W
CHARGING AUTONOMY	5 minutes
MEASURING SENSOR: MELANIN	<ul style="list-style-type: none"> • MEASUREMENT PRINCIPLE: Reflectance photometer on 2 wavelengths ($\lambda_1=875\text{nm}$ e $\lambda_2=660\text{nm}$). • FIELD: 0-100 a.u. (arbitrary units) • RESOLUTION: 1 a.u.
MEASURING SENSOR: HYDRATION	<ul style="list-style-type: none"> • MEASUREMENT PRINCIPLE: Capacitive • FIELD: 0-100 a.u. (arbitrary units) • RESOLUTION: 1 a.u.

TECHNICAL FEATURES pH FX: pH probe

APPEARANCE	Pen-type probe with flat glass tip sensitive to pH and magnetic coupling to place it in the universal probe support.
WEIGHT	54 g
DIMENSIONS	110 (w) x 35(d) x 22(h) mm
OPERATING CONDITIONS	Temperature 15 – 30 °C (Relative humidity: 5 – 85 % uncondensed)
STORAGE CONDITIONS	Temperature 0 – 50 °C (Relative humidity: 5 – 85 % uncondensed)
CONNECTIVITY	Bluetooth Low Energy (BLE)
POWER SUPPLY	CR20323V Lithium ion battery
CHARGING AUTONOMY	Approx. 500 hours
MEASURING SENSOR	<ul style="list-style-type: none"> • MEASUREMENT PRINCIPLE: glass electrode sensitive to pH • FIELD: 2 - 10 • RESOLUTION: 0.1

TECHNICAL FEATURES CAM FX: micro camera

APPEARANCE	Wired micro camera and plastic base for storage after use
WEIGHT	130 g (without the support)
DIMENSIONS	100 (w) x 60 (d) x 60 (h) mm Cable: 1,5 m
OPERATING CONDITIONS	Temperature -10/+40 °C (Relative humidity: 30 – 75 % uncondensed)
STORAGE CONDITIONS	Temperature -10/+40 °C (Relative humidity: 30 – 75 % uncondensed)
POWER SUPPLY	USB 5V
IMAGE SENSOR	Colour CMOS ¼ VGA sensor – 1.3MP
MAGNIFICATION	X12, X14, X40, X50, X100, X400 (Table 1)
WHITE BALANCE	Enabled
OUTPUT SIGNAL	USB 2.0 format
SOURCE	White high brightness LEDs
LIGHT INTENSITY	Fixed
ILLUMINATION	Lateral/Vertical/Polarised

TECHNICAL FEATURES ELA FX: elasticity probe

APPEARANCE	Pen-type probe in PC/ABS with sensors on the tip and magnetic coupling that makes it possible to place it in the universal probe support.
WEIGHT	99 g
DIMENSIONS	195(w) x 32(d) x 37(h) mm
OPERATING CONDITIONS	Temperature 15 – 30 °C (Relative humidity: 10 – 90 % uncondensed)
STORAGE CONDITIONS	Temperature 0 – 50 °C (Relative humidity: 10 – 90 % uncondensed)
CONNECTIVITY	Bluetooth Low Energy (BLE)
POWER SUPPLY	Wireless charging
ENERGY INPUT	Max 1W
CHARGING AUTONOMY	5 minutes
MEASURING SENSOR: ELASTICITY	<ul style="list-style-type: none"> • MEASUREMENT PRINCIPLE: Stress/deformation • FIELD: 0-100 a.u. (arbitrary units) elit • RESOLUTION: 1 a.u.

TECHNICAL FEATURES TAPE FX: strips for Sebum test

APPEARANCE	40 single-use strips used to measure sebum inside a cardboard dispenser
DIMENSIONS	Strips: 50 x 15mm Sebum-sensitive: 11 x 11mm Dispenser: 65 (w) x 40 (d) x 55 (h) mm
OPERATING CONDITIONS	Temperature 15 – 30 °C (Relative humidity: 30 – 75 % uncondensed)
STORAGE CONDITIONS	Temperature 15 – 30 °C (Relative humidity: 30 – 75 % uncondensed)
MEASUREMENT PRINCIPLE	<ul style="list-style-type: none"> • MEASUREMENT PRINCIPLE: Computer Vision • FIELD: 0-100 a.u. (arbitrary units) • RESOLUTION: 1 a.u.

TECHNICAL FEATURES TEMP FX: temperature probe

APPEARANCE	Pen-type probe, made of PC/ABS with sensor and optical pointing system on the tip and magnetic coupling to place it in the universal probe support
WEIGHT	Weight: 98 g (batteries included)
DIMENSIONS	43.5 (w) x 144 (d) X 21.5 (h) mm
OPERATING CONDITIONS	Temperature +16 °C – +40 °C (Relative humidity: 15-93% uncondensed)
STORAGE CONDITIONS	Temperature -25 °C – +70 °C (Relative humidity: 5 – 85% uncondensed)
CONNECTIVITY	Bluetooth Low Energy (BLE)
POWER SUPPLY	4 1.5V alkaline AAA (LR03) batteries
AUTONOMY OF 4 BATTERIES	10,000 readings
MEASURING SENSOR	<ul style="list-style-type: none"> • <u>MEASUREMENT PRINCIPLE</u>: detection of infrared emissions for measuring skin surface temperature without touching it. The probe has an optical pointing system that projects 4 arcs onto the surface to show its correct reading distance. • <u>FIELD</u>: 1.0 - 80 °C • <u>RESOLUTION</u>: 0.1