

EN • Soft FX (Mel-Hyd FX; Ela FX; Cam FX - skin)

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

Cod. 130020

Manufacturer

Callegari S.r.l.

Description and Intended Use

Soft FX is a device used to establish and assess the main skin 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 analyses are performed for purely aesthetic reasons. The instrument does not require specialised personnel.

Soft FX skin analysis system is a modular device which consists of the following components: machine body, Melanin – Hydration probe (MEL-HYD FX), Elasticity probe (ELA FX), microcamera (CAM FX - skin). Consumables for the sebum analysis (TAPE FX) are required.

TECHNICAL FEATURES OF THE CENTRAL MACHINE BODY

DISPLAY	TFT 10.1" with capacitive multi-touch screen
FULL-FACE CAMERA	Max Resolution: 5MP - 2592x1944 Auto focus Angle of View: 60°
CONNECTIVITY	Ethernet, WiFi and WiFi Hotspot. Bluetooth Low Energy for probes connection
INTERNAL MEMORY	4GB
EXTERNAL MEMORY	64GB
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
RF MODULE (BLE)	Operating frequency bands: 2402-2480 MHz Transmit powers: -12 dB – 9 dBm
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)
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
RF MODULE (BLE)	Operating frequency bands: 2402-2480 MHz Transmit powers: -12 dB – 9 dBm
MEASURING SENSOR: MELANIN	• 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	• MEASUREMENT PRINCIPLE: Capacitive • FIELD: 0-100 a.u. (arbitrary units) • RESOLUTION: 1 a.u.

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
RF MODULE (BLE)	Operating frequency bands: 2402-2480 MHz Transmit powers: -12 dB – 9 dBm
MEASURING SENSOR: ELASTICITY	• MEASUREMENT PRINCIPLE: Stress/deformation • FIELD: 0-100 a.u. (arbitrary units) • 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 area: 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	• MEASUREMENT PRINCIPLE: Computer Vision • FIELD: 0-100 a.u. (arbitrary units) • RESOLUTION: 1 a.u.

TECHNICAL FEATURES CAM FX - skin: micro camera

APPEARANCE	Wired micro camera and plastic base for storage after use
WEIGHT	130 g (without the support)
DIMENSIONS	55 (w) x 75 (l) x 50 (h) mm Cable: 1.8 m
OPERATING CONDITIONS	Temperature 10 - 70 °C (Max Relative humidity: 90 % uncondensed)
STORAGE CONDITIONS	Temperature 20 – 85 °C (Max Relative humidity: 90 % uncondensed)
POWER SUPPLY	USB 5V
IMAGE SENSOR	Aptina MI5100, 1/2.5-inch CMOS digital image sensor – 5MP
MAGNIFICATION	X12, X14, X40, X50, X100
WHITE BALANCE	Not active.
OUTPUT SIGNAL	USB 2.0 format
SOURCE	White high brightness LEDs
LIGHT INTENSITY	Fixed
ILLUMINATION	Lateral/Vertical/Polarised