



Specifications DeNovix DS -11 FX+

Nº	Specifications:	Function or parameter value
Microvolume spectrophotometry		
1.	Minimum sample volume	0.5 µl
2.	Optical path length	0.5 mm (automatic ranging up to 0.02 mm)
3.	Light source	Xenon flash lamp
4.	Detector	2048 PZZ element
5.	Wavelength	190-840 nm
6.	Wavelength accuracy	0.5 nm
7.	Spectral resolution	1.5 nm (full width at the half-amplitude level of 253.7 nm)
8.	Absorption accuracy	0,015 (1 cm) abo 1%, whichever is greater
9.	Absorption range	0.015-750 (equivalent to 1 cm)
10.	Detection Threshold	0.04 mg / ml BSA; 0.75 ng / µl of dsDNA
11.	Maximum concentration	1125 mg / ml BSA; 37500 ng / µl of dsDNA
12.	The material of the lower optical part	303 stainless steel and sapphire crystal
13.	Material of the upper optical part	303 stainless steel and quartz fiber
Cuvette spectrophotometry mode		
14.	Beam height	8.5 mm
15.	Heating temperature	37-45 °C ± 0,5 °C
16.	Optical path length	10, 5, 2, 1 mm
17.	Absorption range	0,0008 - 1,5 cu. (1 cm)
18.	Detection Threshold	0.002 mg / ml BSA; 0.04 ng / µl for dDNA (1 cm)
19.	Maximum concentration	75 ng / µl for dDNA (1 cm)
Fluorimeter mode		
20.	Light source	UV diode (~ 375 nm), blue diode (~ 470 nm), green diode (~ 525 nm), red diode (~ 635 nm)
21.	Excitation Filters	UV: 361-389 nm, blue: 442-497 nm, green: 490-558 nm, red: 613-662 nm
22.	Absorption filters	UV: 435-485 nm, blue: 514-567 nm, green: 565-650 nm, red: 665-740 nm
23.	Detector	Photodiodes with a detection range of 300-1000 nm
24.	Type of test tubes	Polypropylene 0.5 ml with thin walls for real-time PCR
Control Panel		
25.	operating system	Android
26.	CPU	TI OMAP 1.5 GHz Dual Core ARM
27.	Screen	1280 x 800 display in the high-rise building

28.	Input method	Through the sensory screen, summing up from the mittens
29.	Inner memory	32GB
30.	USB Ports	3
31.	Connecting to the network	The local Wi-Fi network
Common parameters		
32.	Colour	White, Brazilian blue, fiery red, tungsten silver
33.	Measurement time in spectrophotometer mode	2 seconds
34.	Measurement time in fluorimeter mode	2 seconds
35.	Weight of the device	2 kg
36.	Device area	20 cm x 33 cm
37.	Operating voltage	12 VDC
38.	Working level of power supply	10 W, maximum - 30 W
39.	quality certificates	CE, UL / CSA, FCC and Japan CAB
40.	Manufacturer country	USA