







comparison of FOX IV 810, FOX 810 and competitor devices for glaucoma treatment

Device	FOX IV 810	FOX 810	Cyclo G 6	Vitra 810
Company	A.R.C. Laser GmbH	A.R.C. Laser GmbH	IRIDEX	Quantel Lumibird
Picture				
Wavelength	810 nm diode laser	810 nm diode laser	810 nm diode laser	810 nm diode laser
Indications	CPC μCPC Endocoagulation Retinocoagulation with LIO DCR	CPC μCPC Endocoagulation Retinocoagulation with LIO DCR	CPC & MicroPulse CPC	ThermoCyclo SubCyclo Endocoagulation Retinocoagulation with LIO + SL
Power	Max. 8 Watt, safety feature: ant./ post. Treatment up to 3 Watt	Max. 8 Watt	Max. 3 Watt	Max. 3 Watt
Power Supply	Battery powered, mains supply	Battery powered, mains supply	Mains supply	Mains supply
Voice Output	Yes (10 s   10 J interval) (selection of 5 languages)	No	Yes (10 s interval)	No
Counter	Energy and time. Count-down and Count-up mode	Energy in count-up mode	Time	Time
Metronome function	Yes Audio signal every 1 s or 1 J	No	Yes Audio signal every 1 s	Yes Audio signal every 5 s
User Interface	Colour touch display (H: 11 mm, W: 6.5 mm) and side bar	Black-and-white touch display (H: 5.5 mm, W: 7.5 mm) and buttons	Colour touch display (H: 5.7 mm, W: 9.7 mm) and rotary knobs + button	Touch display and buttons
Colour Codes Applications	Yes	No	No	Yes
Dimensions	H: 17.4 cm, W: 14.2 cm, D: 16.3 cm	H: 17.4 cm, W: 14.2 cm, D: 16.3 cm	H: 19.7 cm, W: 27 cm, D: 29.5 cm	H: 18 cm, W: 19.5 cm, D: 30 cm
Weight	1.53 kg	1.2 kg	4.8 kg	5.6 kg
Housing	metal	plastic	plastic	plastic
Power and laser key	Power on/off switch + Password	Power on: key combination + Password Power off by closure of stand	Key switch	Key switch

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Device	Cyclo Probe	μCPC Probe	G-Probe	P3 Probe	P3 Probe revised	SubCyclo Probe
Company	A.R.C. Laser GmbH		IRIDEX			Quantel Lumibird
Picture						
Fiber Tip	spherical	spherical	spherical	spherical	flat	spherical
Connector	ARC	ARC	SMA RFID	SMA RFID	SMA RFID	SMA

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Device	Cyclo Probe	μCPC Probe	G-Probe	P3 Probe	P3 Probe revised	SubCyclo Probe	
Company	A.R.C. Laser GmbH		IRIDEX			Quantel Lumibird	
Footplate							
Fiber protrusion for perfect tissue interaction	yes	yes	yes	yes	No, fiber is retracted	yes	NA
Contact surface	Match with sclera radius	Large ring for stable positioning perpendicular to sclera; No predetermined position due to rotation symmetrical geometry (comfortable use guaranteed)	Match with sclera radius	Convex – complicates keeping perpendicular position to sclera; Predetermined position due to specific geometry, orientation need to be kept during the movement – less handling comfort	Match with sclera radius to keep the position; Predetermined position due to specific geometry, orientation need to be kept during the movement – less handling comfort	Match with sclera radius	None; Angulation and distance to limbus need to be adjusted manually – no handling comfort
Distance fiber tip to edge (limbus directed)	1.2 mm	3 mm	1.2 mm	3.5 mm	3 mm	1.2 mm	Not defined, complicates treatment as no defined distance to limbus
Cavity for viscoelastica	No need	Large cavity to enhance sliding motion at sclera	No need	NA	Small engraved channel	No need	NA