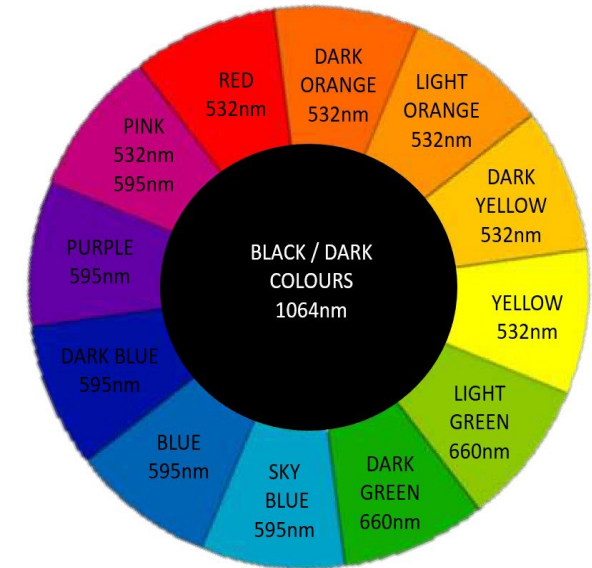


COSMETIC TATTOO; PERMANENT MAKE UP / MICRO PIGMENTATION										
INDICATION	SKIN TYPE (I-VI)	MODE (nm)	SPOT SIZE (mm)	FLUENCE (j/cm ²)	PASSES	REP RATE (hz)	END POINT	TREATMENT	MAINTENANCE	COMMENTS
TEST PATCH	I-VI	1064	Start with Test Patch to find required endpoint	Increase 0.5j until soft frosting.	1 shot	1	Soft Frosting (Grey Blanching)	Frosting may be seen in first few treatments only.	Start with 1 shot and check end point continue increasing energy and decreasing spot size.	Test Patch is crucial for Cosmetic Tattoos on a small area. Tattoos that experience paradoxical darkening often require additional treatments to obtain complete ink resolution. The darkened ink may be an unfortunate permanent consequence. Patients who experience this phenomenon should be forewarned that ink retention is a possibility following paradoxical colour changes with certain tattoo colours.
	I-IV	532		Increase 0.2j until soft frosting	1 shot	1	Soft Frosting (Grey Blanching)	Only treat tattoo Ink		
EYEBROWS / EYELINER BLACK OR DARK INK	I-VI	1064	5-3	1.0 -6.0	1 pass - cover lesion	1	Soft Frosting (Grey Blanching)	2-8 Tx 8-12 weeks apart	Increase energy each treatment. Review at 8 weeks.	Use magnifier for treatment. Must shave brow hair or use tongue depressor to part hairs and treat tattooed skin only. Interocular shields are mandatory for eyeliner removal.
EYEBROWS OR LIPS RED / BROWN/ PEACH//ORANGE /PINK VARIATIONS	I-IV	532	4 - 3	1.0-5.0	1 pass - Cover lesion	1	Soft Frosting (Grey Blanching)	2-8 Tx 8-12 weeks apart	Increase energy each treatment. Review at 8 weeks.	Red ink can tend to turn black after treatment and will need to wait for next treatment to use 1064nm and take the black away. Always perform a test patch when treating cosmetic tattooing. Increase energy if yellowish or brownish change.
CAMOUFLAGE TATTOO NUDE/ FLESH AREOLAS, SCARRING, HYPOPIGMENTATION	I-III	532	6-3	2.0 -4.0	1 pass - Cover lesion	1	Frosting	2-8 Tx 8-12 weeks apart	Increase energy each treatment. Review in 8 weeks.	Nude colours will tend to turn black after 532nm and will need to wait for next treatment to use 1064nm and take the black away. Always perform a test patch when treating cosmetic tattooing. MUST BE APPLIED ONLY TO TATTOO INK. Do not apply to edges of lesion as can remove pigment from surrounding skin. Use tongue depressor if required to treat along edge.
DIFFICULT INKS WHITE/ YELLOW	I-VI	1064	6-3	2.0-4.0	1 pass - Cover lesion	1	Frosting	2-8 Tx 8-12 weeks apart	Increase energy each treatment. Review in 8 weeks.	White ink can tend to turn black after treatment and will need to wait for next treatment to use 1064nm and take the black away. Always perform a test patch when treating cosmetic tattooing.
ADVANCED GREEN VARIATIONS	I-III	660 (Not available on Cosjet)	3	Max J	1 pass - Cover lesion	1	Frosting	2-8 Tx 8-12 weeks apart	Review in 8 weeks.	Treat each colour individually. Must be applied only to tattoo ink. Do not apply to edges of lesion as can remove pigment from surrounding skin. Use tongue depressor if required, to treat along edge.
ADVANCED BLUE / PURPLE VARIATIONS	I-III	595 (Not available on Cosjet)	3	Max J	1 pass - Cover lesion	1	Frosting	2-8 Tx 8-12 weeks apart	Review in 8 weeks.	Best in conjunction with Zimmer. Must be applied only to tattoo ink. Do not apply to edges of lesion as can remove pigment from surrounding skin. Use tongue depressor if required to treat along edge.

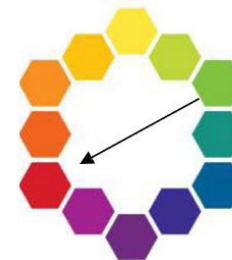
Specialist Cosmetic Tattoo Quick Guide

Treatment tips:

- Cosmetic tattoos (permanent makeup) are performed by expert operators using a mixture of components that can often contain ferric oxide. These may oxidise and darken during laser treatments, giving a worse outcome.
- Use a label with a 18g needle hole punched through and perform test patch over needle hole to assess for paradoxical darkening of ink.
- If client does not want to shave the area, work around the natural brows, however, they may turn lighter when the laser hits them. This is temporary and can easily be covered with a brow tint or brow mascara once the area has healed after 7 days. In the event that the laser does hit an eyebrow hair, it will just become lighter in colour and fall out. Brows may become sparser as an outcome.
- Eyeliner treatment: Interocular shields are mandatory for eyeliner removal. These are administered by medical practitioners with use of antibiotic ointment, numbing drops and lubricant for insertion.
- Paradoxical darkening of tattoo ink can occur after Q-switched treatment and has been reported in multiple ink colours. Flesh tones and red tattoos seen in brows and lips containing ferric oxide may show immediate darkening caused by the reduction of red-brown-coloured ferric oxide to black-coloured ferrous oxide. Dark colour can often be subsequently removed using different appropriate wavelength however after paradoxical darkening may experience ink retention.
- Certain colours including yellow, white, peach, or pink may be more susceptible to paradoxical ink darkening secondary to reduction of ferric oxide to ferrous oxide, which leads to a darkening of the ink.
- After application it is best to wait for 8-12 weeks after receiving the tattoo before starting the treatment. The skin needs to heal, and the cosmetic tattoos need time to migrate and settle into the dermis.
- With the correct treatment settings, the tattoo after Q-switched after treatment. Pinpoint bleeding may also occur. This is not unusual and doesn't indicate damage to the tissue, it should heal without any problems. Excessive bleeding or blistering can cause pigmentation or infection after treatment. Therefore, we recommend using antibiotic cream, pigmentation serum and sunscreen.
- Don't apply makeup to the treated area. It could cause complications, infection and prolong the process.
- Microblading techniques usually 2-5 sessions are required, tattoo technique usually 6-8 sessions are required.



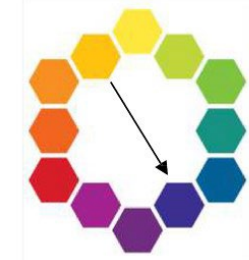
Tattoo Type	Pigment Type	Ink Concentration	Pigment Depth
Professional	Organometallic dyes	Dense	Deep
Amateur	India ink (carbon)	Sparse	Variable
Cosmetic	Iron or titanium oxide	Sparse	Superficial
Traumatic	Carbon, metals, dirt	Variable	Variable
Medical	India Ink (carbon)	Sparse	Superficial



532nm = Green Light
Treat: Red, Orange



660nm = Red Light
Treat: Green, Teal



595nm = Gold Light
Treat: Purple, Plum

Patient Contraindications

- Hypersensitivity to light in both visible and near-infrared spectrum
- Exposure to sun in the three weeks prior to treatment (for any skin type)
- Use of medication containing gold (treatment by a Q-switched laser could induce Chrysiasis)
- Recent exfoliation or peel treatment, or surgical treatments in the treatment area
- Any past skin disorders, including but not limited to keloids

Patient Precautions

- Do not perform any treatment on skin that is not fully healed from previous treatments
- You should evaluate all patients for the possibility of allergic reaction after any treatment.
- For palpable and traumatic tattoos (with the presence of scars), you must inform the patient that while the pigment will be removed, the scar will remain.
- Cosmetic Tattoos may require antiseptic or antibiotic treatment to minimise the risk of scarring.
- Allergic reactions, granuloma reactions or chronic reactions require medical intervention and management.