

ColorCube

Coloring of dental titanium components
Safe - Fast - Simple



ColorCube helps dental laboratories reduce cost and production time as well as making it easy to accommodate the individual needs and requirements of each patient. It offers an elegant solution to existing manufacturing issues as well as new possibilities for custom dental prosthetics.

CORTEX TECHNOLOGY

ColorCube

Coloring abutments before adding a ceramic crown helps to obtain a more natural looking prosthetic. Coloring allows directly visible prosthetic parts to blend into their surroundings. Color coding of components can also be helpful for identifying sizes and components that fit together. This helps reduce the risk of errors during the prosthetic or other medical procedure.

ColorCube is safe and simple to use. The titanium part to be colored is placed in the closed process chamber. The color is obtained by anodization, where the thickness of the natural oxide layer on the titanium is increased, causing a change in the way the surface reflects light. The surface will not chip or peel like paint, as the process does not involve using paint or chemicals.

The button corresponding to the desired color is pressed, and anodization is done in 30 seconds. The basic colors are: blue, gold, red and green. The intensity of each color can be varied using the adjustment knobs on the front. By masking with wax, it is also possible to apply several colors to a single titanium part. For a clearer finish, an etching preparation of the component is advisable.

The perceived color of an implant will vary with the thickness of the oxide layer, and a large range of colors can be obtained. The oxide layer is extremely thin (<600nm) and is fully integrated with the underlying titanium substrate.

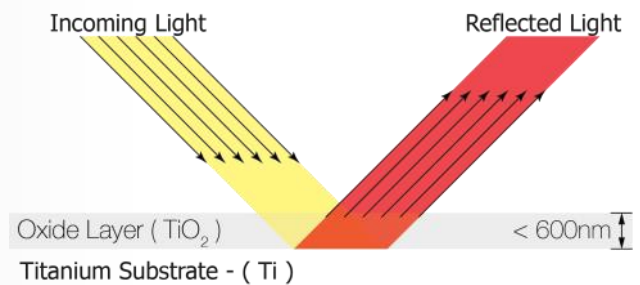
Technical Specifications

ColorCube is designed to take up minimal space on the laboratory bench and to be easy to move around. The body is made from solid aluminum, that has been given a surface treatment to resist scratches and dents. It is built to be durable and survive many years of daily use.

Dimensions: 15 x 15 x 16 cm.

Weight: 3.2 kg.

Power supply: 100-250V max 25W



The wavelengths of the light which is reflected from the surface depends on the thickness of the titanium-oxide layer. Therefore, the color of the surface can be changed by varying the thickness of the oxide layer.



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