

Step-by-step guide to shade matching



Shade selection guides: **Always remember:**

Vita • Vita 3-D

- Chromoscope
- Bleached guides • e.Max shade guide
- The Environment

· Shade determination should be made

at the beginning of the appointment

· View the patient at eye level

- · Make a decision as quickly as possible

How to

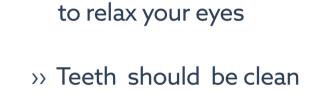
maximize color accuracy

lipstick, clothing, and clinical drape also can adversely affect color perception. **Light Source**

From floor to ceiling, the entire room or

setting should have a **neutral light gray**

background, not white. A patient's



and brush teeth)

>> If needed, use a blue bib

(have patient remove lipstick

immediate field of view >> Wear neutral-colored gloves

>> No bright colors in the

- >> Subdued wall colors if possible (preferably greyish to slate blue)

dramatically affect shade.

The light source will

The operatory light should not be pointed directly at the patient.

 Indirect lighting with fluorescent bulbs at 5500 Kelvin color temperature Color corrected with a full visible spectrum range Enough intensity to eliminate ambient light, but

· Pleasant to the eye to deter fatigue

 Consistent in that it does not change depending on the time of day or location

not so strong as to mask the color differences

Photographs



of ideal light for shade matching

Key

aspects



If your camera doesn't have a ring flash, have the patient sit up with their chin slightly tucked in. This will help keep the flash from reflecting in the picture.

pointing any light directly toward the patient.

Use a room with some natural light if possible and avoid

It is essential that color selection is done when the patient is

first seated in the dental chair as Chroma and Value can change

Always have a shade tab in the photo so the technician can

Use a camera with a macro lens and ring flash. This will

allow you to get a closer and more detailed photo without

needed adjustments.

having the flash alter the shade.

due to minor dehydration.

compare the difference in the Value and Chroma and make the

Photographs are not accurate or sufficient in color replication, but they can be useful for determining gradation and characterization. Chroma **Value**

Low chroma colors look dull and grayish.

Sometimes chroma is called **saturation**.

Color Perception

The purity of a color

High chroma colors look rich and full.

Types of color

blindness

Color perception varies

from fractionally to drastically by individual depending on their vision.

Fact!

(.5%) to be color blind than men (8%). Doctors and technicians should take a color vision

Women are far less likely

deficiency test such as Ishihara or Farnworth Lantern annually as vision can change.

Value, or lightness, varies vertically

Ranges from black (value 0) at the

bottom, to white (value 10) at the top.

Neutral grays lie along the vertical axis

along the color solid

between black and white.

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