



BLEACHING TREATMENTS

Motivate, quantify, prove



FIXED PROSTHETICS

Crown, bridges, veneers



CHAIRSIDE TREATMENTS

CAD/CAM chairside, composites



REMOVABLE PROSTHETICS

Dentures, prefabricated teeth



A complete solution
with its software
and communication
platform

COBRA
SHADE SCAN

**The versatile shade
scanner !**



THE PRODUCT

- COBRA spectrophotometer
- Vision software
- Borea Connect platform

Two type of information are essential to transmit to the laboratory for a perfect fitting in the mouth:

- The optimal **dimension** is scanned using your intraoral scanner.
- The **color** is now recorded and then transmitted thanks to the spectrophotometer and the Vision software.

THE RESULT

For the first time, you benefit from an all-digital workflow and its many advantages.

OTHER BENEFITS

The instantaneous transmission of the color into the patient file of the Vision software, its **reliability** and its **reproducibility** make Cobra an essential tool for everyone.

The easy communication with your laboratory via the free Borea Connect platform ensures simple and quick follow-up of your dental prosthesis orders.

COBRA
SHADE SCAN

 **VISION**
SHADE SCAN

 **BOREA**
CONNECT

A VALIDATED AND APPROVED TECHNOLOGY THE SPECTROPHOTOMETRY

A spectrophotometer allows the acquisition of spectral data at any point of the tooth.

The wavelengths are analyzed and then compared to a database in order to deduce the color of a tooth.

The Cobra performs an analysis in the visible spectrum of 380 nm and 780 nm.

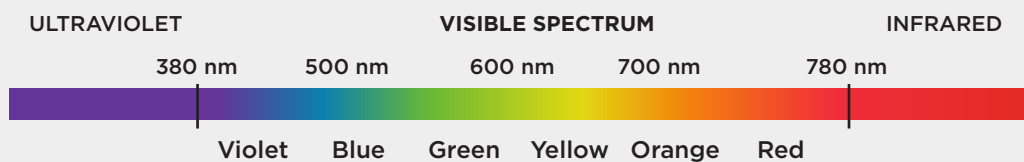


« Intraoral scanners (...) remain unreliable because they have a narrow choice of colors and yield results that are significantly different from those of spectrophotometers. As a result, they should not be used for deciding the shade for a final restoration.

...

Spectrophotometers are the best-adapted tools for shade matching since they record the L*, a*, and b* values of one color.

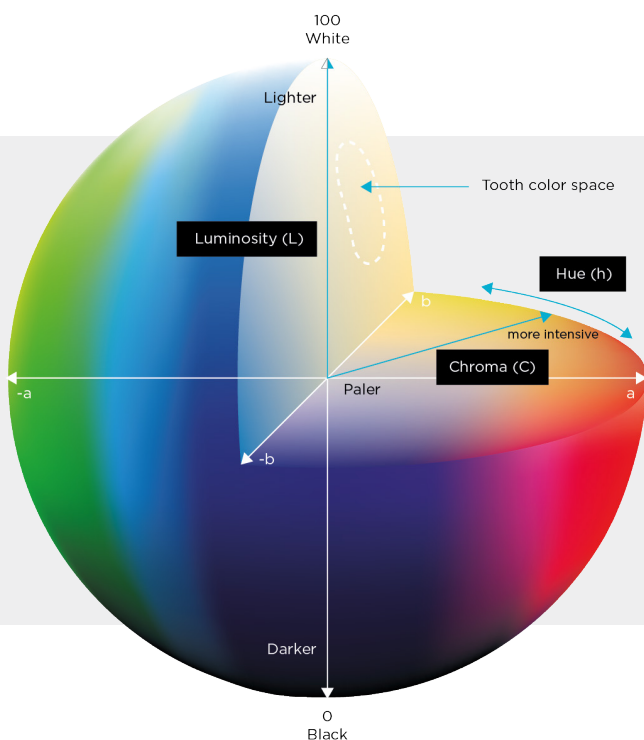
«A comparative in vivo study of new shade matching procedures»
The International Journal of Computerized Dentistry



THE COLOR COORDINATES CIE L*a*b* et L*C*h

CIE L*a*b* coordinates are a colorimetric standard defined by the Commission Internationale de l'Éclairage (CIE) in 1976. It allows a multitude of functionalities and standardized communication with your laboratory.

- Calculation of colorimetric differences (ΔE).
- Quantification of bleaching treatments.
- Editing help.
- Comparison of natural tooth and prosthesis in the mouth.
- Compatibility with manufacturing recipe applications.



What is CIE L*a*b* ?

This space expresses the color in three values:

- L* for the brightness indicated between black (0) and white (100)
- a* from green (-) to red (+)
- b* from blue (-) to yellow (+)

Based on a three-dimensional representation, the CIE Lab system allows a more precise description of colors and approaches the properties of the human eye. It is thus easy to quantify color deviations or to dissociate and study the luminosity (L) of a color.

BECOME OBJECTIVE AND GAIN IN COMFORT WITH AN ACCURATE AND REPEATABLE SOLUTION

From the simplest monochrome prosthesis to the superb multi-layered set, Cobra potentiates each of your choice of materials and optimizes your aesthetic experience to transmit **true information** to your laboratory in a single simplified gesture.

A multipoint spectrophotometer ensures working comfort and serenity. Indeed, manual shade guides, although mostly used, have many limiting factors. An analysis performed with a shade guide is influenced by **human characteristics** and **external factors**. This act is subjective because it depends on the ocular physiology, the experience and the interpretation of each one. Added to this is the influence of the surrounding light, the color of the walls and even the clothes of your patients.

Patented technology

OLED touch screen

Multi shade-guides

COBRA
SHADE SCAN

Spectrophotometer
L*a*b* / L*C*h analysis



Cobra offers optimal and objective color definition ”

The advantages of the Cobra:

- **Ergonomics:** Light weight and compact autocalibrated device. Remote video stream.
- **Accuracy:** Multispectral analysis. Cmos sensor 648 x 648 px.
- **Digital:** 100% integrated, objectivity and traceability.
- **Hygienic:** Sterilizable tips, induction charging.
- **Educational:** Easy communication with your patients.



Realize
a complete shade taking
in a few seconds!



Delete
scraps for
color defects



Optimise
your time and return on
investment

WORK WITH PEACE OF MIND THANKS TO AUTOMATIC CALIBRATION



A sterilizable tip and much more... ”

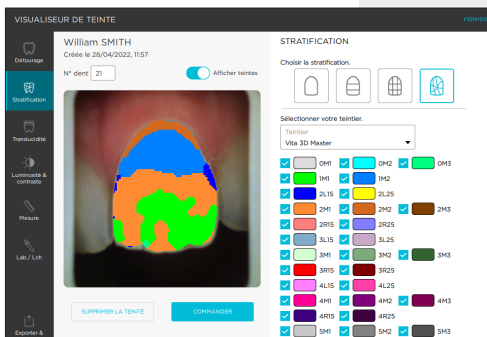


A multifunction tip combined with a patented measuring head:

- **Accuracy:** It allows automatic control of all your acquisitions.
- **Objective:** It frees from all external light disturbances.
- **Assisted:** It ensures precise positioning of the device on the tooth and control of the working distance for perfect acquisition.
- **Hygienic:** It eliminates all cross-contamination and is designed for 100 sterilization cycles!

A COMPLETE MAPPING OF THE TOOTH IN ONE ACQUISITION

Shade analysis under different stratifications:



Polarized photo, global analysis, three-part, nine-part, detailed mapping.

Instant conversion to different reference shade-guides:

- VITA classical A1-D4®
- VITA Toothguide 3D-MASTER® with Bleached Shades
- VITA Bleachedguide 3D-MASTER®
- IVOCCLAR Chromascop
- SHOFU Vintage
- KURARAY Noritake
- ...

Customize your shade-guide: the ideal tool for direct composite restorations.



PRODUCT HIGHLIGHTS:

- Positioning assistance with a live video on the device screen and on your computer screen.
- A real didactic and motivational experience with your patients.
- Improve the brand image of your dental clinic.



VISION SOFTWARE ANALYSIS, MANAGEMENT, TRACEABILITY

The **Vision** software allows the recovery, analysis and archiving of shade cases obtained with the Cobra.

This complementary tool to the spectrophotometer makes it possible to centralize patient aesthetic data (shade analysis, photos, comparison and bleaching reports, etc.).

This software is installed in the dental office and/or the laboratory in order to deepen the study and analysis of the most relevant data for the production of dental prostheses (**luminosity, chromaticity, hue, translucency**).



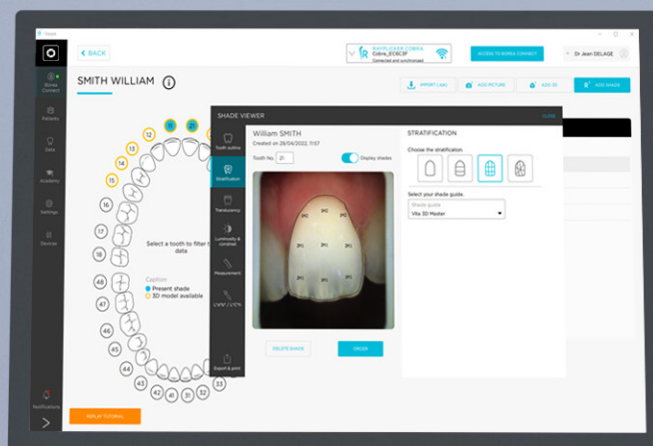
Realize colorimetric analyzes and optimize your patient data management.

The advantages of the Vision:

- **Free and open software** available to everyone (dental office and laboratory).
- **No additional cost** of operation or update.
- The possibility of **multi-station access** (server for a network installation).
- Classification per patient for **simplified data management**.
- **Easy editing** of complete shade, comparison or bleaching reports in pdf format.

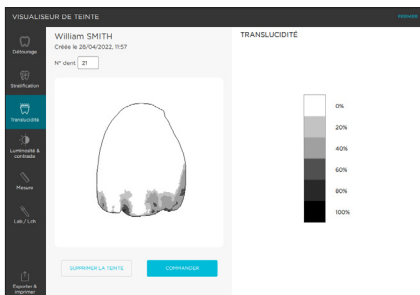


Free downloads and updates



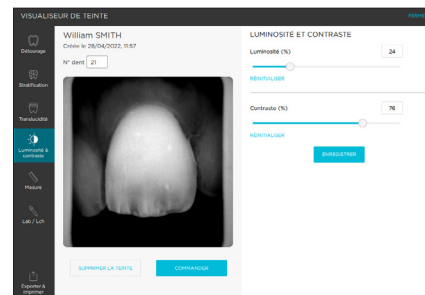
SIMPLY ACCESS MANY TOOLS FOR AN IN-DEPTH ANALYSIS

Translucency analysis



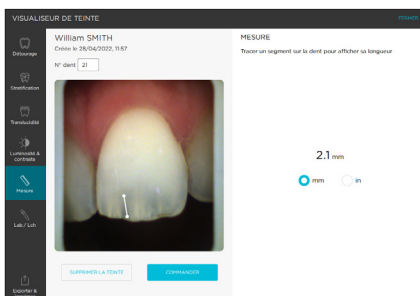
- Easily view a tooth translucency mapping.
- A gray scale indicates the presence of translucency on a scale from 0% to 100%.

Black and white analysis



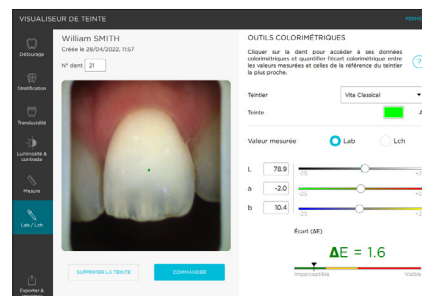
- Convert color polarized photo to grayscale
- Change brightness and contrast settings.
- Bring out the distribution of dentin, enamel, characterize the surface condition, highlight the remarkable characteristics of the analyzed tooth.

Measuring tool



- Locate and measure remarkable characteristics of a tooth.

CIE L*a*b* / L*C*h analysis



- Determine pixel-by-pixel color coordinates according to CIE L*a*b* or L*C*h standards.
- Easily calculate to the pixel the colorimetric difference «Delta E or ΔE» between the actual shade of the tooth and the closest shade according to the reference shade guide.



PRODUCT HIGHLIGHT:

Easily describe the overall aesthetic context with the «Pics App Solution»

Free download from the Apple store and Play store

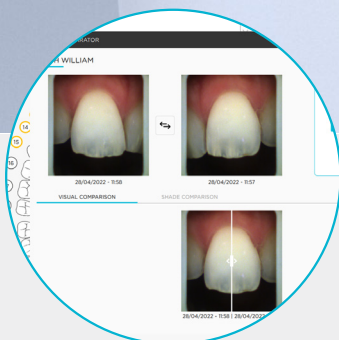
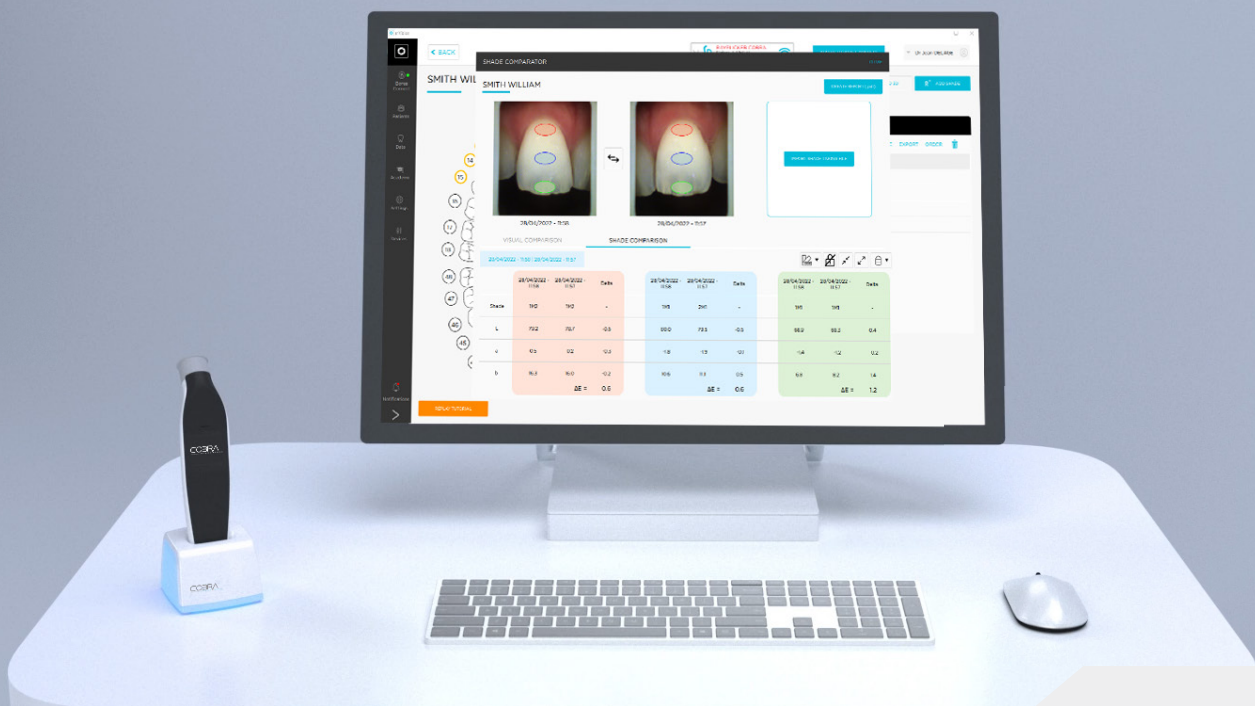
MOTIVATE YOUR PATIENTS AND QUANTIFY YOUR BLEACHING TREATMENTS GENERATE REPORTS IN A FEW SECONDS

The Vision software allows the comparison between several acquisitions. This shade comparator allows a visual and colorimetric comparison ($L^*a^*b^*$) with the referenced shade guides.

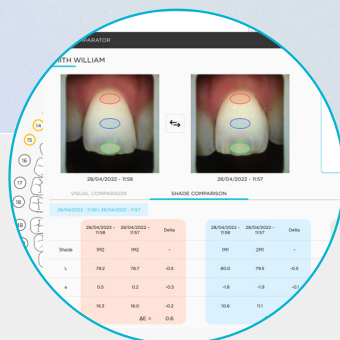
It is the ideal tool to evaluate and quantify bleaching treatments but also to help with correction by allowing you to adjust your achievements based on objective criteria.



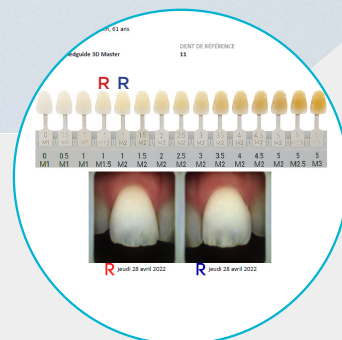
Easily create bleaching reports and improve communication with your patients!



Visual comparison of polarized images



Comparison with $L^*a^*b^*$ values



Bleaching report



SCAN-ME
to discover a
clinical case

JOIN THE BOREA CONNECT COMMUNITY SIMPLIFIED COMMUNICATION BETWEEN THE PRACTICE AND THE LABORATORY



Simplified access to color information while optimizing the management of your orders.



What is Borea Connect?

- A free platform for creating and managing orders (Dental practice and laboratory access).
- Easy sending of your aesthetic data prescription with shades, patient photos and digital impression.
- Total accessibility from an internet browser on computer, smartphone, tablet.

Integrate Borea Connect community:

- Follow the progress of your prosthesis orders in real time.
- Receive native files and generate complete pdf order forms.
- Benefit from a free and regularly updated platform.
- Bring visibility to your activity on a community platform where everyone can be visible at their convenience.



BENEFIT FROM A 100% DIGITAL WORKFLOW



The shade scanner is the unique complement to your intraoral scanner for a 100% digital workflow!

- Shade-taking reports are compatible with all scanners and management software (.pdf).
- Native Cobra files (.rpk) are compatible with the majority of intraoral scanner platforms (Medit, Planmeca, Carestream, 3DISC...).
- Directly import your digital impressions on the Borea Connect for an independent workflow.

FOR MAXIMUM COMFORT COBRA INTEGRATES TO THE UNIT



Cobra adds technology, reliability and precision at your fingertips.

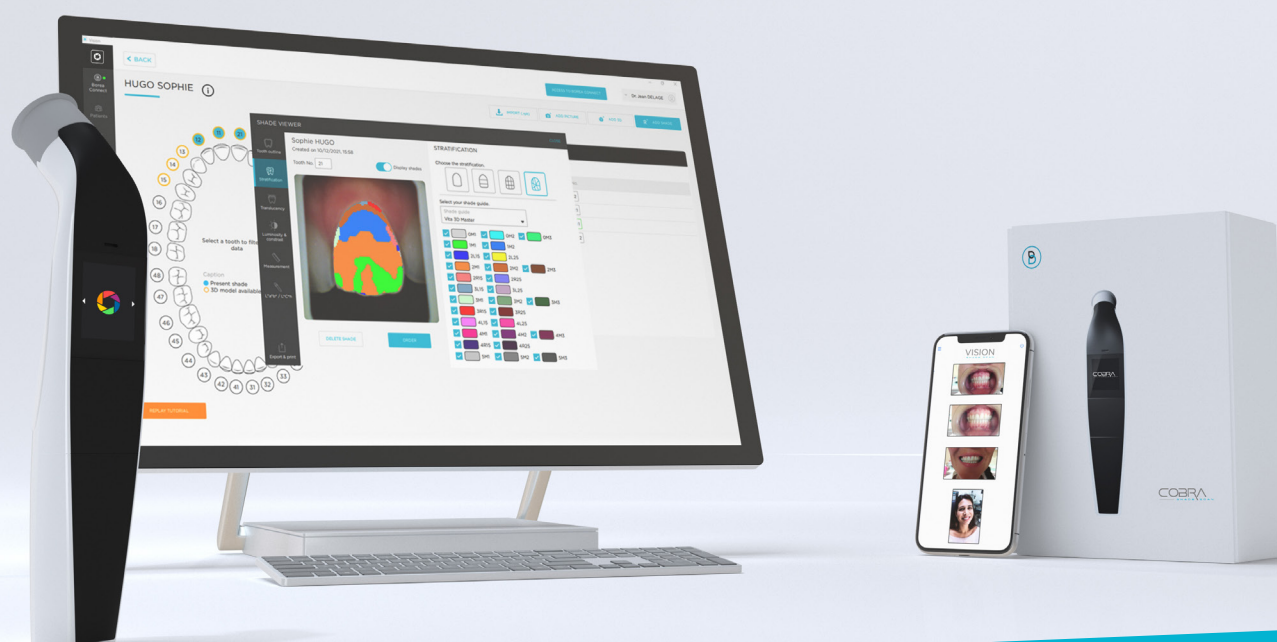


MODULE

COBRA
SHADE SCAN

A device designed for integration into the unit

- Shade taking becomes available at your fingertips.
- Compatibility with all screens available in the dental office.
- The association with intra-oral scanners allows a complete digital workflow.



CHOOSING THE COBRA SHADE SCANNER SOLUTION MEANS:

JOIN THE COBRA SHADE SCAN COMMUNITY

A validated and recognized solution, take advantage of the experience of the previous Handy and the new features provided by the Cobra.

AIMING FOR QUALITY WITHOUT ADDITIONAL COST

Our products have a 2 years warranty, parts and labor. Our solution includes the handpiece, the Vision software and the Borea Connect platform.

No hidden costs, no annual fees.

ENJOY MEDICAL GRADE MANUFACTURING & KNOW-HOW

Our products are medical devices made in France. We favor local and national suppliers. Our mission: to develop, innovate and design in compliance with quality standards. BOREA is ISO 13485 certified.

MASTER THE TECHNOLOGY

BOREA is made up of a team of experts who work on possible developments to offer you the best of technology. BOREA has also patented all its innovations.

DISCOVER COBRA IN VIDEO



Technical specifications Cobra wireless



Spectrophotometer: measuring range 400-700 nm
Screen: OLED touch screen 1,5"
Resolution: 128 x 128 RGB
CMOS sensor: 648 x 648 px
Battery: Lithium-Ion
Dimensions of the handpiece: L. 200 x L. 42 x H. 35 mm
Dimension of the measuring head: L. 76 mm

Diameter of the measuring head: Ø 25 mm
Dimensions of the docking station: L. 80 x L. 75 x. H. 55 mm
Weight of the handpiece: 169 g
Weight of the docking station : 124 g
Processor : IMX8 Quad cores 1 Ghz
Communication : Wifi 802.11
Supply : 5V 2Ah / USB A to Type C

Technical specifications Cobra chair unit:



Spectrophotometer: measuring range 400-700 nm
Screen: OLED touch screen 1,5"
Resolution: 128 x 128 RGB
CMOS sensor: 648 x 648 px
Supply : Wired 5V 2A
Dimensions of the handpiece: L. 200 x L. 42 x H. 35 mm

Dimension of the measuring head: L. 76 mm
Diameter of the measuring head: Ø 25 mm
Weight of the handpiece: 169 g
Processor : IMX8 Quad cores 1 Ghz
Communication : Wifi 802.11

Compatibility :



Windows

Pics App Solution :

Free download



Recommended computer configuration

Operating system: Windows 10 64 bits
Processor : Intel Core i7
RAM : 8 Go
Hard disk: SSD 500 Go
Screen resolution : 1080 p
Internet : High speed connection

Package content :

Cobra spectrophotometer
Docking station
Dongle
Power adaptor & USB C cable

Calibration Tips x6 (Sterilisable)
Disinfection and sterilization procedures
Quick Start Guide
Microfiber wipe

Cobra is a class I medical device.

It bears the CE mark in accordance with the European Medical Device Regulation (EU) 2017/745. CE marking: 2022. Made in France by BOREA. For professional use only. Not reimbursed by health insurance funds. Read the instructions carefully before use.

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