# Programat® CS3

The glazing and crystallization furnace with DSA function

## Fast and easy for flawless
### IPS e.max® CAD restorations

**Now featuring the Digital Shade Assistant**

Digital Shade Assistant

**ivoclar vivadent**

passion vision innovation

# Opening up a new world for dental practices.

## Innovative
The new Programat® CS3 is designed to process IPS e.max® CAD. It allows crystallization and glaze firing procedures to be carried out in the dental office with utmost ease and efficiency.

Designed for simple and intuitive operation, the furnace offers pre-set Ivoclar Vivadent programs and a controlled cooling process.

In addition, the Programat CS3 is equipped with the DSA system, which enables the tooth shade to be determined on the basis of a digital photo using digital technology.

## EVEN MORE

- **Software updates via WLAN or USB flash drive**
- **QTK2 muffle technology featuring SiC bottom reflector**
- **30 individual programs**
- **Large cooling tray that can accommodate several firing trays**
- **Selectable signal tones for the loudspeakers**
- **Backup time of up to 10 seconds in the event of a mains failure**

# Glaze and crystallization firing.
## At the push of a button.

**Ease of operation**

The Programat CS3 is conveniently operated by means of a wide and mobile colour touchscreen. The most important functions are selected via the time-tested membrane-sealed keypad.

**OSD with progress indicator**

The Optical Status Display (OSD) uses different colours to inform the operator about the actual operating status (red = heating, green = ready, blue = cooling).

The progress indicator on the side of the screen shows the current firing status and the remaining process time in percent. The firing status is visible even from a large distance.

**The large time-remaining indicator shows the time left in the running process.**

**IPS e.max® Shade Navigation App** is the intelligent app which assists you in finding the most suitable Ivoclar Vivadent blocks and ingots. Just 5 clicks to find the right solution - for an optimum shade match.

# DSA – Digital Shade Assistant

## Digital shade matching

With the Digital Shade Assistant Starter Kit and the Programat CS3 you can determine and check the tooth shade using digital technology, quickly and reliably.

All you need is a DSA Starter Kit and a digital camera or a mobile phone with an integrated camera.

# It's easy:



1. The three closest tooth shades* are selected.

2. The reference shades are inserted into the Digital Shade Assistant Holder.
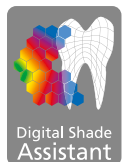
3. The DSA Holder is held up against the patient's teeth.
4. A digital photo is taken of the tooth and the shade samples.

5. The photographic data is transferred to the Programat CS3 in order to carry out the shade comparison with the DSA function.

*The Digital Shade Assistant system is exclusively compatible with the following shade guides:
• Ivoclar Vivadent A–D Shade Guide
• Ivoclar Vivadent Chromascop Shade Guide

Digital Shade Assistant

## What can be analyzed, and how is it done?

1. The area of reference can be individually selected.

2. Either incisal edge to incisal edge or tooth neck to incisal edge can be selected.

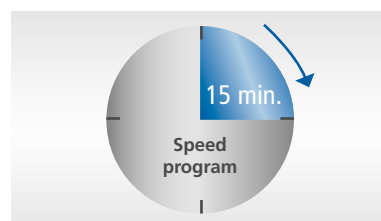3. Manual analyses including brightness and shade saturation (lab values)

4. Zoom function for a detailed view

# Further highlights

**Speed program for IPS e.max® CAD material**

With this program, IPS e.max CAD material can be crystallized even faster, making the furnace highly cost effective.



**Multimedia functions**

Special multimedia functionalities allow the operator to view videos, for example, of directions for use, and pictures of patients and their teeth directly on the screen of the Programat. MP3 files can also be played.



**Firing tongs and integrated tong holder**

The firing tongs allow objects to be easily placed in and removed from the firing chamber. The tongs conveniently stow away in the holder on the furnace.



**Reduced-noise vacuum technology**

Due to the new double-valve vacuum technology, the noise level of the vacuum pump is reduced to a minimum. Once the desired vacuum level has been reached, the pump of the Programat CS3 shuts down and maintains the vacuum. The new dehumidifcation program reduces the accumulation of moisture in the vacuum hose.



**Ports and other connections**

The LAN and USB interfaces enable the furnace to be linked to other devices, e.g. printers, USB flash drives and external hard drives. Software updates can be performed using a USB flash drive. In addition, the furnace is equipped with audio connections and an SD card reader.



**ATK2 temperature calibration**

The automatic double-range temperature calibration (ATK2) feature enables fully automatic temperature calibration in two different temperature ranges. This ensures high firing precision and outstanding firing results.



**Remote diagnostics through the internet via e-mail**

A diagnostic file can be generated at the push of a button if technical support is needed. The file can be conveniently e-mailed to one of the service centres, which will attend to the issue immediately.

# Programat®
## A STORY OF SUCCESS

Economical
Efficient
Future-oriented

**POWER SAVING** 
**Technology**

## Stand-by key saves power

Efficient use of energy and responsible use of valuable resources: Ivoclar Vivadent is committed to this goal. Therefore, the Programat CS3 is equipped with the new Power Saving Technology. In the stand-by mode, the energy consumption of the furnace drops by almost 40 percent. As a result, you save on electricity costs and help to protect our environment at the same time. Look out for the Power Saving Technology label on the back of your device.

**Saving electricity is easy**

**Simply press the Power Saving key:** If the furnace is not being used, briefly press the Power Saving key to activate the power-saving mode.

## Technical data

| | |
|---|---|
| **Power supply** | 100 V, 50 – 60 Hz |
| | 110 – 120 V, 50 – 60 Hz |
| | 200 – 240 V, 50 – 60 Hz |
| | Admissible voltage fluctuations ±10 % |
| **Max. power consumption** | 14 A at 100 V |
| | 12 A at 110 – 120 V |
| | 8.5 A at 200 – 240 V |
| **Data for vacuum pump** | Max. power consumption: 250 W / max. leakage current 0.75 mA |
| | Final vacuum: < 50 mbar |
| | Only tested pumps can be used. |
| **Dimensions of closed furnace** | Depth: 495 mm |
| | Width: 320 mm / 395 mm (with cooling tray) |
| | Height: 320 mm |
| **Usable size of the firing chamber** | Diameter: 90 mm |
| | Height: 80 mm |
| **Max. firing temperature** | 1,200 °C |
| **Weight** | Base: 18.7 kg |

## Delivery form

**Programat CS3**
Power cord
Vacuum hose
Programat firing tray kit
Automatic Temperature Checking Set ATK 2 (test set)
USB download cable
Programat USB flash drive
Programat WLAN kit
Firing tong holder
DSA Holder kit
A–D shade guide

## Recommended accessories
(not contained in the delivery form)

Programat Accessories Set
Automatic Temperature Checking Set 2 (ATK2)
Vacuum Pump VP3 easy or VP5

VP3 easy                    VP5

Programat® forms a part of the "Fixed Prosthetics" product category. The products of this category cover the procedure involved in the fabrication of fixe prosthetic restorations – from temporization to restoration care. The products are optimally coordinated with each other and enable successful processing and application.

| OptraGate® | IPS e.max® | Programat® | IPS e.max® | Multilink® | Cervitec® |
|---|---|---|---|---|---|

**PREPARE** ▶ **RESTORE** ▶ **PROCESS** ▶ **FINISH** ▶ **PLACE** ▶ **MAINTAIN**

## THESE ARE FURTHER PRODUCTS OF THIS CATEGORY:

### IPS e.max® System
all ceramic – all you need

**The comprehensive solution covering all indications**
• Highly esthetic, high-strength materials for the press and CAD/CAM technique
• Unique lithium disilicate ($LS_2$) and zirconium oxide ($ZrO_2$) ceramics for restorations ranging from thin veneers to multi-unit bridges
• Flexibility of cementation: adhesive, self-adhesive and conventional

### Variolink® Esthetic
The esthetic luting composite

**The luting composite for exceptional esthetics and user-friendly processing**
• Balanced and concise Effect shade system
• Excellent shade stability due to amine-free composition
• Easy, controlled excess removal

**Would you like to know more about the products of the "Fixed Prosthetics" category? Simply get in touch with your contact person at Ivoclar Vivadent or visit www.ivoclarvivadent.com for more information.**

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