



KITCHEN BRAINS

Driven by **(FAST)** Networked by **SCK**

OPERATING GUIDE

(FASTRON.)[®] VISION Series VC-220 Controller



Operating a (FASTRON.)[®] VC-220 with:

- 8 Product Keys / VFD Display

Save the instructions
for future reference.
www.KitchenBrains.com

24/7 Toll-Free Technical Support
1-800-243-9271
(from the U.S., Canada and the Caribbean)

NOTICES

Before you start, please read entire manual.



Kitchen Brains is not liable for any use of product not in accordance with Kitchen Brains' installation and operation instructions.

Before using this equipment, or for any questions on the operations of the appliance, consult and follow all instructions and safety warnings found in the appliance operator's manual supplied from the manufacturer of the appliance.

Not all features are available on some models.

CONTROLLER OPERATING ENVIRONMENT

The solid state components in this controller are designed to operate reliably in a temperature range up to 158°F/70°C. Before installing this controller, it should be verified that the ambient temperature at the mounting location does not exceed 158°F/70°C.

CLEANING THE CONTROLLER

Using a clean damp cloth, wipe down your controller daily using a commercial quality foodservice-approved detergent.

Do not allow oil to build up on any part of the controller.



NEVER use chemical or abrasive cleaners on your controller. The controller's overlay may be damaged.

NOTE

This manual will thoroughly familiarize you with the operation of the (FASTRON.)® Controller so that you may use it in the most effective way to enhance the smooth running of your restaurant's cooking operations.

There are four modes of operation on the Controller:

- **Operating Mode** used to time various menu items
- **Product Program Mode** used to add or modify menu items or change settings
- **System Program Mode** used to modify operating parameters
- **Diagnostic Mode** used to test product key LEDs, product key audible signals, the VFD display, and cook status LEDs

This instruction booklet covers (FASTRON.)® Vision Controller Model VC-220.

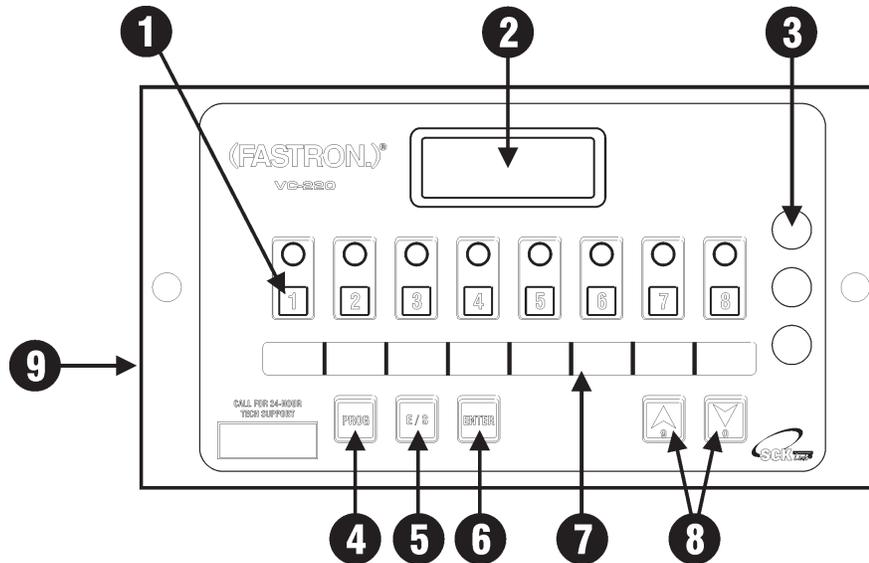
If any problems occur, or if you have any questions about the instructions, contact Kitchen Brains™ technical support toll-free at 1-800-243-9271.

INSTALLING THE CONTROLLER

1. Use supplied mounting screws and brackets to secure controller to appliance.
2. Attach the grill control cable to controller and the gas control valve on the grill.

CONTROLLER FEATURES

Note: The controller operates in minutes and seconds.



-
- | | |
|---|--|
| 1 | PRODUCT KEY: In "Programming" mode used to program product cooking times. In "Operating" mode, used to start product timing cycles. |
|---|--|
-
- | | |
|---|---|
| 2 | ACROSS-THE-KITCHEN MONITORING: Easy-to-read, VFD (vacuum fluorescent) display allows crew members to quickly check the status of any food product from across the kitchen. The display will show the countdown or name of product. |
|---|---|
-
- | | |
|---|--|
| 3 | STATUS LAMPS: Red, yellow and green lamp lights provide visual indication of stage time (cooking, hold, discard, and idle). See page 6 for further explanation. |
|---|--|
-
- | | |
|---|---|
| 4 | PROGRAMMING KEY: In "Operating" mode, allows access to the programming mode. In "Programming" mode, steps to the next function to be programmed. |
|---|---|
-
- | | |
|---|--|
| 5 | ENGLISH/SPANISH KEY: User can toggle between English and Spanish languages during or prior to a cook cycle. |
|---|--|
-
- | | |
|---|---|
| 6 | ENTER KEY: Used to save "Programming" changes. It is also used during system information, system program and diagnostic modes. |
|---|---|
-
- | | |
|---|---|
| 7 | UP and DOWN ARROW KEYS: In "Programming" mode, scrolls through features forwards (up) or backwards (down). |
|---|---|
-
- | | |
|---|--|
| 8 | Clear window for replaceable menu strip. |
|---|--|
-
- | | |
|---|--|
| 9 | ON/OFF SWITCH: Located in the rear of unit. |
|---|--|
-

FEATURE DEFINITIONS

Stage Timing

Each product key has up to eleven (11) timing stages.

Each stage has:

1. Product name
2. Auto preheat flag
3. Stage or preheat time
4. Stage name
5. Heat ON time
6. Lamp color
7. Lamp state
8. Stage done
9. Hold mode flag
10. Cancel mode
11. Beep frequency

Cancel Mode

The VC-220 offers a choice of Manual or Automatic canceling of each product stage.

English/Spanish Mode

The user can switch from English to Spanish languages by pressing this key on the front panel either before or during a timing cycle.

Alarm Frequency — 6 Different

The VC-220 can be programmed for one of six (6) different alarm frequencies. Choices are NONE, 1, 2, 3, 4, 5 or 6 beeps per second.

Hold Mode

Each recipe stage has an associated hold mode flag. The hold mode flag is used by the auto-preheat function, and the auto cancel and restart function. If an active recipe stage has its hold mode flag set to enabled, then the stage is referred to as a "Hold mode" stage and is used to warm and/or hold the product for a programmable amount of time. If the flag is set to disabled, then the stage is a cook stage and is used to cook the product or dissipate excess steam. A "Hold Mode" stage uses the same programmable parameters as a cook stage. However, one unique functional difference of an active "Hold Mode" stage is that the recipe may be restarted while performing this type of stage.

Intuitive User Interface

- a. Bright blue 16x2 (16 characters x 2 lines) VFD (vacuum fluorescent display).
- b. Red LED lights for each product key.

Cook Status Lamp Lights

- a. SOLID RED: Idle Mode
- b. FLASHING RED: Discard Mode (until someone presses the product button to return to idle mode).
- c. SOLID YELLOW: Last Hold Mode
- d. SOLID GREEN: Ready to Serve, Initial Hold Modes
- e. FLASHING GREEN: Pre-Heat/Cooking Modes

NOTE: These are default settings that can be configured in each stage.

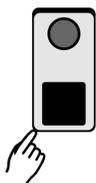
Power Loss Protection

In the event of a momentary power loss, the controller will resume its current operation from the point power was interrupted. Programmed recipes are always saved.

Free Technical Support

24x7x365 toll-free, no charge, technical support for programming assistance.

Start a Timing Cycle

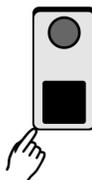


To start a timing cycle, simply press the product key for the product you wish to cook. If the product key is programmed for a count “down” mode, the cooking time will be displayed for each stage of the cooking cycle and this stage time will immediately start to count down.

A red, yellow or green lamp light will be lit to indicate if a product is pre-heating, cooking, holding, ready to discard, or if the controller is in idle mode. When the timing cycle is complete, STAGE/00:00 will be displayed and the controller will sound an audible alarm and visual signal. If READY is displayed and nothing happens when the key is pressed, that key does not have a programmed time.

Timing can be programmed up to 99 minutes and 59 seconds.

- **TO CANCEL THE ALARM WHEN A COOK STAGE IS COMPLETE**, press the same product key once.
- **TO CANCEL A COOK OR HOLD CYCLE IN PROGRESS**, press and hold the same product key used to start the timing cycle for 3 seconds.
- **TO CANCEL A HOLD ONLY AND BEGIN A NEW COOK**, press and the same product key momentarily.



Stage Alarms

The controller is programmed with stage alarms that will signal at the end of each stage. This signal will also be accompanied by a visual indication on the controller. Once the alarm is canceled (see above), the controller then continues counting down to the end of the next stage.

Holding Times

Holding times are programmed and they will automatically start counting upon expiration of the timing cycle.

When there is an active hold time, the display will show HOLD/XX:XX. The time remaining in the hold cycle will be displayed. Once a hold cycle is complete, press the product key to proceed to the next stage or to complete the cook cycle.

NOTE: Make sure when programming a hold that HOLD is entered as the product name.

English or Spanish Language Mode



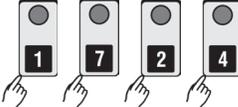
The VC-220 displays either English or Spanish text. Language mode can be selected either before or during a cook cycle.

DISPLAY DESCRIPTIONS

READY	The controller is in the Idle Mode and is ready to start a timing cycle.
STAGE 02:30	The controller is in the Operating Mode; a timing cycle is in progress. The stage name is displayed.
STAGE 00:00	The controller is in the Operating Mode and a timing cycle has completed. If programmed the “Stage Name / 00:00” will flash in the display.
HOLD 30:00	The controller is in the Operating Mode; a hold time is active, displaying time remaining, or a hold time has expired and hold time is displayed.
SELECT A PRODUCT	Programming Mode Entry. All LEDs are lit solid.
STAGE X CANCEL AUTOMATIC	In Programming Mode, choose between automatic and manual alarm canceling.
STAGE X CANCEL MANUAL	
BEEP 1 F2	Programming Mode Beep Frequency selection. Choices are NONE, F1, F2, F3, F4, F5 or F6. This translates to 0, 1, 2, 3, 4, 5 or 6 beeps per second.
HEAT ON 3 TIME 01:25	In Programming Mode, select duration of Heat On stage.

PRODUCT PROGRAMMING

Enter Product Programming Mode

READY	PROGRAM MODE ENTER CODE	ENTER CODE ****	
	Press and hold for 3 seconds.	Enter code 1 7 2 4	
			

CODE 1724

Select a Product

SELECT A PRODUCT	PRODUCT NAME WORD		
Select the product you would like to program.	Use the Up/Down arrows to toggle choices.	Press PROG to confirm selection.	
			

Product Name

Follow these steps to Program a New **Word**

PRODUCT NAME WORD				
Press PROG to spell out a word.	Use the Up/Down arrows to scroll through the letters.	Press PROG to select the letter and advance	When word is complete, press ENTER to confirm.	
				

Follow these steps to Program an item from the **Library**

PRODUCT NAME LIBRARY			
Press PROG to choose from the Library.	Use the Up/Down arrows to scroll through the Library.	To confirm your choice, press ENTER.	
			

Preheat

AUTO PREHEAT DISABLED	AUTO PREHEAT DISABLED	AUTO PREHEAT ENABLED	PREHEAT TIME 00:00	
AUTO PREHEAT ENABLED				
Use the Up/Down arrows to toggle choices.	If DISABLED is selected, press ENTER to continue.	If ENABLED is selected, press ENTER to program	Set Preheat Time using the numbered keys.	To confirm your entry, press ENTER.
				

PRODUCT PROGRAMMING

Stage(s)

Note: Up to 11 Stages can be programmed. If a time is programmed, control will go to next step. If no time is programmed, programming of the next product key can begin.

STAGE X TIME
00:00

Set Stage Time using the numbered keys.



To confirm your entry, press ENTER.



STAGE X NAME
WORD

STAGE X NAME
LIBRARY

Use the Up/Down arrows to toggle choices.



To confirm your choice, press PROG.



Follow these steps to Program a New **Word**

STAGE X NAME
WORD

Press PROG to spell out a word



Use the Up/Down arrows to scroll through the letters.



Press PROG to select the letter and advance.



When word is complete, press ENTER to confirm.



Follow these steps to Program an item from the **Library**.

STAGE X NAME
LIBRARY

Press PROG to choose from the Library.



Use the Up/Down arrows to scroll through the Library.



To confirm your choice, press ENTER.



Heat On & Hold Mode

HEAT ON X TIME
00:00

NOTE: If a time is programmed, control will go to next step. If no time is programmed, skip to the next step.

Set Heat On Time using the numbered keys.



HOLD MODE X FLAG
YES

HOLD MODE X FLAG
NO

Use the Up/Down arrows to toggle choices



To confirm your choice, press ENTER.



Lamps

LAMP X COLOR
RED

LAMP X COLOR
YELLOW

LAMP X COLOR
GREEN

Use the Up/Down arrows to toggle choices.



To confirm your choice, press ENTER.



LAMP X STATE
SOLID

LAMP X STATE
FLASH

Use the Up/Down arrows to toggle choices.



To confirm your choice, press ENTER.



PRODUCT PROGRAMMING

Done Mode

STAGE X DONE

STAGE X DONE
AUTOMATIC

STAGE X DONE
MANUAL

Use the Up/Down arrows to choose Automatic or Manual.

To confirm your choice, press ENTER



Beep Frequency

BEEP 1

BEEP 1
F1

Use the Up/Down arrows to scroll through Frequencies. Choices are: NONE (F0); 1 through 6 (F1-F6).

To confirm your choice, press ENTER



Additional Stages

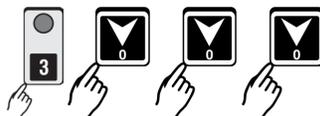
STAGE 2 TIME
00:00

STAGE 2 TIME
30:00

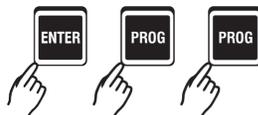
Note: If no additional stages are desired, set the time for the next stage to zero then press ENTER to continue to Exit Program Mode. (Up to 11 stages can be programmed.)

Set a new stage time using the numbered keys.

To confirm your choice, press ENTER

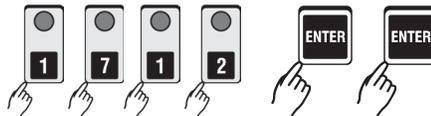


Exit Product Programming Mode



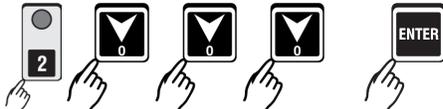
SYSTEM PROGRAMMING

Enter System Programming Mode

READY	PROGRAM MODE ENTER CODE	ENTER CODE ****	SYSTEM PROGRAM
Press and hold for 3 seconds.		Enter code 1 7 1 2	
			

CODE 1712

Auto Pre-Heat Global Timer

PREHEAT DELAY	PREHEAT DELAY 00:20:00	To confirm your choice, press ENTER
Set a new time using the numbered keys (see example).		
		

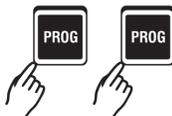
The Auto Pre-heat Global Timer can be enabled or disabled. When it is enabled, an internal clock keeps track of how long the grill control has been idle. If the auto pre-heat option is enabled for a given recipe, and the recipe is selected in idle mode by pressing the appropriate product key after power up, the controller software will always perform a pre-heat cycle in cook/timer mode for the time specified by the first stage of the recipe. Once the recipe is completed and the controller software returns to the idle mode, a programmable auto pre-heat global timer will be counting down. If a recipe button is pushed during this time the pre-heat cycle (stage 1 timer) will be skipped and the recipe will continue with stage 2 instead. However, if no recipe is started within 20 minutes, the “Auto pre-heat” function will become active. Once the “Auto Pre-heat” function becomes active, any recipe that is started with its auto pre-heat option enabled will perform a pre-heat cycle for a time specified by its stage 1 time.

The following are all conditions that will activate or reset the “Auto Pre-heat” global timer:

Auto Pre-heat global timer will start counting down after a recipe is completed or canceled during a “Hold Mode” stage (Hold Mode flag = enabled). The timer will not start counting down if the recipe is canceled during a cook stage (Hold Mode flag = disabled).

Auto Pre-heat global timer will be reset after all consecutive cook stages are completed. If there is only one cook stage for a given recipe, then the Auto Pre-heat global timer will be reset after the one cook stage is done.

Exit System Programming Mode

SYSTEM PROGRAM	Press PROG twice to exit.
	

NOTE: You can only exit system programming when a key or keys have been completely programmed and the display shows SYSTEM PROGRAM.

SYSTEM INFORMATION ACCESS

Enter System Information Mode

CODE 2000

READY

PROGRAM MODE
ENTER CODE

ENTER CODE

Press and hold for 3 seconds.

Enter code
2 0 0 0

To confirm your entry, press ENTER.

MODEL NUMBER
231-61057-01

FLASH NUMBER
240-91040-01

SOFTWARE NUMBER
240-92040-01

DOWNLOAD NUMBER
240-93040-01



After all system information has been displayed (as shown above), the controller will exit program mode and return to idle.

DIAGNOSTICS: FRONT PANEL

Enter Diagnostics Mode

CODE 6435

READY

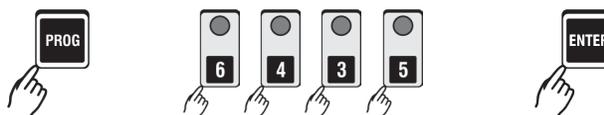
PROGRAM MODE
ENTER CODE

ENTER CODE

Press and hold for 3 seconds.

Enter code
6 4 3 5

Press ENTER. All discrete LEDs and all segments of the display will be on.



As you press each of the eight product keys, all LEDs (except the associated LED above the key) will be turned off. Also, "Key 1" through "Key 8" will be shown in the display, along with a short beep, depending on which key is pressed. As the remaining bottom row of keys are pressed (including hidden keys), the display will show "Key 9" through "Key 16." A short beep will sound as each key is pressed. Also, as you press keys 1 through 3, the red, yellow or green lamps will be lit, respectively.

NOTE: The gas valve output signal (head demand on/off) may be tested by monitoring the gas valve connector pins 1 and 4 for 24VAC once the product Key 1 through Key 7 is pressed during normal operation.

Exit Diagnostics Mode

READY

Press and hold for 3 seconds.

Press PROG again.

Controller is now back in idle mode.



NOTES



Want to learn more about Kitchen Brains™ products?

Visit our website:
www.KitchenBrains.com



*When used with a gateway.



2D00 SPECIAL EQUIPMENT, NSF CRITERIA C-2



SCK Link® is a registered trademark of Technology Licensing Corporation and use is subject to the appropriate license agreement.



229-51300



KITCHEN BRAINS

Driven by **(FAST.)** Networked by **SCK**

Food Automation - Service Techniques, Inc.

905 Honeyspot Road, Stratford, CT 06615-7147 USA

Phone: +1-203-377-4414

Sales: **1-800-FASTRON**

Fax: +1-203-377-8187

International Callers: +1-203-378-6860

www.KitchenBrains.com

Toll-free technical support 24/7 from the U.S.,

Canada, and Caribbean: **1-800-243-9271**

International offices are located in the United Kingdom, China and Singapore:

Europe, Middle East, Africa, South Asia
31 Saffron Court Southfields Business Park
Basilidon, Essex SS15 6SS ENGLAND
Phone: +44 0 1268544000

Asia Pacific
1803, 18F, No 922 Hengshan Rd
Shanghai 200030, CHINA
Phone: +8613916 854 613

15-101, Block 290G, Bukit Batok St. 24
SINGAPORE 65629
Phone: +65 98315927

WARRANTY

Kitchen Brains warrants all new timers, computers, and controllers for 1 year from the date of purchase including computers, controllers, and timers. Kitchen Brains warrants all other items for a period of 90 days unless otherwise stated at the time of purchase.

PATENTS

The products manufactured by Kitchen Brains are protected under one or more of the following U.S. Patents:

5,331,575	5,539,671	5,711,606	5,723,846
5,726,424	5,875,430	6,142,666	6,339,930
6,401,467	6,581,391	7,015,433	7,650,833
7,877,291	8,060,408		

Plus foreign patents and patents pending. Plus licensed patent 5,973,297

Customer Service and Technical Assistance

Our customer service department is available for orders and questions Monday through Friday between the hours of 8 AM and 5 PM EST. Call us toll-free at **1-800-FASTRON (800-327-8766)** if you're in the US, Canada or the Caribbean, or at **203-378-6860** if you're outside of these areas.

Toll-free technical assistance is available 24 hours a day, 365 days a year by calling **1-800-243-9271** (from the U.S., Canada and the Caribbean) when help is needed immediately.

You can also send an instant email message to a Kitchen Brains™ technician, Monday through Friday, 8am-5pm EST, by going to www.KitchenBrains.com, selecting the 'Support' link at the top of the page, and clicking on 'Contact Tech Support.'

Free Program for Service Exchanges

Kitchen Brains provides an Exchange Program, at no extra cost, if a unit should fail. In the event of failure, you have the option of (1) receiving a replacement product from our factory, freight prepaid; (2) exchanging the failed product for a replacement product at one of our authorized local service centers; or (3) selecting on-site repair or replacement of the failed unit by one of our authorized local service centers.

To take advantage of this program, simply call our toll-free customer service number, **1-800-243-9271**. If you elect to receive an exchange unit from the factory, a replacement unit will be sent immediately. Upon receipt of the replacement unit, simply return the failed unit to the factory, freight prepaid, using the same carton and packing material in which the replacement unit was shipped. The unit will be replaced free of charge, if still under warranty, and if the product shows no evidence of abuse or alteration. If the unit is not under warranty, you will pay repair charges and shipping costs to and from the factory.

Any minor adjustment or calibration and any labor costs for the replacement of probes will be made at your expense.

The Kitchen Brains™ Exchange Program is available to any Domestic Customer whose account is current, and applies to all Kitchen Brains™ Timers, Computers and Controllers.