Kitchen Display System Portfolio

The total solution for kitchen operation
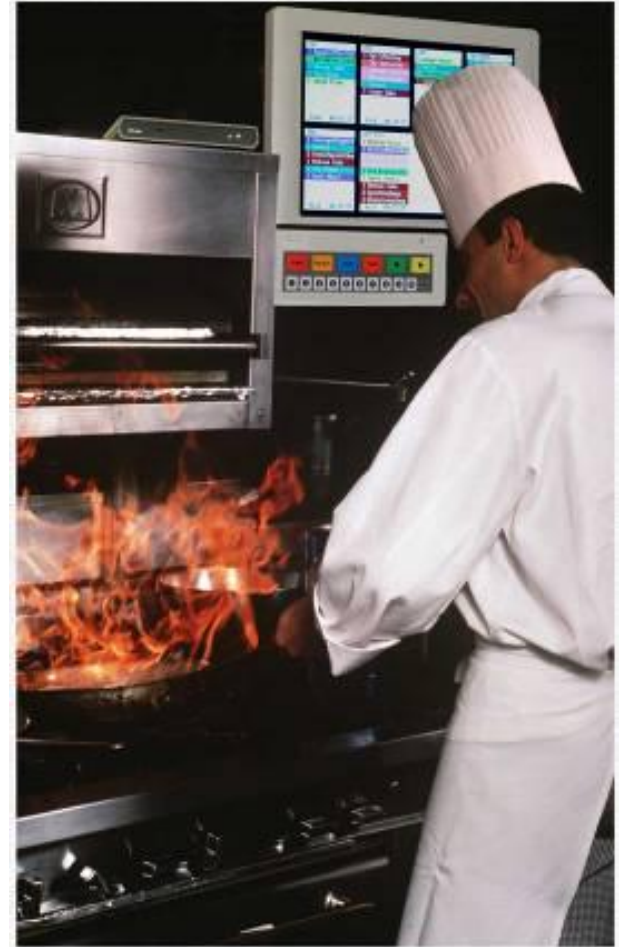
What Is A KDS Used For?

- Operating
  - Establish direct communication between front counter and back kitchen; simple XML file links with POS application software
  - Route food items automatically to different kitchen stations
  - Multi-task operation
  - Setup utility allows user to enter new food items, assign category attributes, manage kitchen stations, and set prices
  - Displays all active kitchen stations on the management station
  - Ethernet topology
  - Connect up to 16 kitchen stations
- Displaying
  - Two screen mode
  - Item Summary
  - Consolidation panel display
  - Automatic order panel enlargement of for large orders
  - Support multiple font sizes, graphics on screen, and 2-byte foreign characters

logic controls
A Bematech Company

What Is A KDS Used For ? (cont'd)

- Ordering
  - "RUSH" message and alert for priority orders
  - Elapsed time display
  - Flashing alarm for orders exceeded the preset time limit
  - Indicator shows the number of buffered orders
  - Expeditor screen with complete orders
  - Automatically rearrange and pack order panels after the bump-off
  - No bump-off for unpaid orders
  - Park unfinished orders
  - Smart order handling - delay dispatching food items with short preparation time
  - Selective order bump off by order number or high-lighted order
- Reporting
  - Food preparation statistics
  - Kitchen activity status

logic controls
A Bematech Company

KDS Hardware

- Challenges
  - Grease and flour contamination
  - Wear of moving parts
  - Loose connectors
  - Aging of flexible parts e.g. cables
  - Humidity especially condensation
  - Space/footprint
  - Heat
- Solutions
  - Fanless & Ventless
  - No internal cables
  - No moving parts
  - Die-cast casing mountable anywhere
  - Protective coatings
  - Book-size
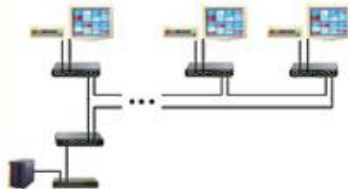 - Advanced thermal conduction away from key components

The Market Leader in KDS

Logic Net

- Maximum reliability
- Low cost
- True Zero-Single-Point-Of-Failure supported
- Powerful self-diagnostics
- Single system IP address
- No OS required

Logic Net Topology

Logic Serve

- High resolution video training
- Maximum compatibility with common KDS software
- IP addressable I/O stations
- Simple Ethernet topology
- Maximum functionality
- Large compliment of I/O ports

Logic Serve Topology

LS6000

- High reliability
- Low cost
- IP addressable I/O stations
- Simple Ethernet topology
- Built-in build card display function
- No OS required

LS6000 Topology

LS9000

- Fanless and Highly reliable operation
- Low cost of ownership
- Compact and rugged housing
- High resolution image
- Video training
- Built-in color recipe display
- Ethernet topology
- IP addressable

LS9000 Topology

logic controls
A Bematech Company

KDS Systems Comparison Chart

	Logic Net (LM3000+LS3000)	Logic eNet (LS6000)	LS9000	Logic Serve (LC8700)
PC-Based	No	No	No	Yes
Fanless	Yes	Yes	Yes	Yes
Straightforward operation	No	Yes	Yes	Yes
Self diagnostics	Yes	Yes	Yes	Yes
Zero single point of failure	No	Yes	Yes	Yes
IP addressable	No	Yes	Yes	Yes
Ethernet topology	No	Yes	Yes	Yes
Graphic recipe	No	Yes (Low Res)	Yes	Yes
Video Training	No	No	Yes	Yes
Low Cost	Yes	Yes	Yes	No
Support KDS Manager*	No	Yes	Yes	Yes

* KDS Manager is a freeware software offered by Logic Controls

logic controls
A Bematech Company

Two Most Common Ethernet Topologies

Option 1

Install KDS software directly into the POS system. Connect the POS system to the kitchen stations via an Ethernet hub.

Option 2

Install KDS software into a separated local computer. Connect both the POS system and the computer to the kitchen stations via an Ethernet hub.

logic controls
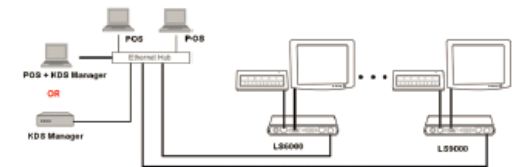A Bematech Company

KDS Manager

Freeware software is designed to shorten the integration time for the Point-of-Sale (POS) systems with Logic Controls Kitchen Display Systems (KDS) Controllers LS6000 and LS9000. The application supports most of the common features requested by restaurant owners aiming to improve efficiency on the order preparation process in the kitchen.

POS developers for the hospitality systems can focus on the business features that concerns them the most without bothering to endure into the details of the video controller hardware protocols and the logic behind order management.

The application is being constantly upgraded for new features, mostly requested from our software partners, by our software engineering team. Our commitment t is to keep this utility evolving and provide support for our software partners.

EASY INTEGRATION WITH POS APPLICATIONS

Kitchen orders are sent from the POS system to the KDS Manager through xml files. The markup language description is intuitive and simple. It allows the applications, which are sending orders to the kitchen printers, to communicate with our KDS quickly . The KDS Manager notifies the POS application (file) when orders have been bumped off or recalled. The freeware software can be installed either in the same computer as the POS application or, if desired, in a different PC.

EASE OF MANAGEMENT

Remote Monitoring All Kitchen Controller Stations
With KDS Manager, the operator is able to monitor the screen for each station individually. This allows him to verify, at any time, what orders are being displayed in the stations.

Secondary Backup Station
An item (or a category of items) can have a backup station assigned to them. If the Primary Stations fails, the items will be displayed on the Backup Station instead. This function allows a continuous flow of the order preparation process even when the hardware failure occurs.
Summary
Totalize and summarize the station items on the screen. With this feature, operator can easily check the pending dishes grouped by items.

logic controls
A Bematech Company

KDS Manager (cont'd)

KDS MANAGER SYSTEM REQUIREMENTS:

- Windows XP or 7 (32 or 64 bits)
- RAM: 512 MB
- Hard Drive : 20 MB
- Windows Network Shared Folder: where orders xml files and notification files will be exchange with the POS

BUMP BAR:

- Bump Bar Personalization
  It supports different Bump bar layouts and key assignments.
- Flexible Bump Method
  User can select to bump full order or bump a single item. He can adjust bumping confirmation pop ups (ON or OFF).

ORDER PREPARATION FEATURES

Order Alerts
- Beep when order received
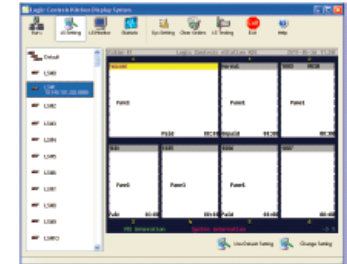- 3 levels of timer alert → different colors for different levels.

Orders Routing
Different items can be displayed in different stations based on filter criteria configured in the KDS Manager. Routing by categories or by individual items is supported.

Parked Orders
An order is 'parked' in the kitchen when the operator determines that this order should be prepared later OR to associate with a different destination (drive-thru). Order can be parked by the operator manually (using the bump bar) or by the POS system automatically (xml tag).

Expediter Mode
A specific controller can be configured as the "Expediter" that monitors order processing status from all the other stations in the kitchen. It informs the front counter/waiter when the order is fully prepared and ready to be delivered to the customer.

Different Order Panel Layout

Up to 4x8 order panels can be displayed on the screen. This allows the application to adjust the number of orders shown at the screen based on different requirements. Items can be displayed in different colors.

AUXILIARY FUNCTIONS

- Help Menu → Find out the bump bar key assignment

- Statistics
  - Order Average Time: Operator can check on the Kitchen Controller screen regarding the number of the orders prepared and the average preparation time for each station.

- Ticket Printing → In addition to displaying the orders on the monitor attached to the kitchen controllers, a Serial or USB printer could also be used to work with the controller for ticket printing. Ticket format configurable.

- Highlight order events → Color Notification when item is changed or deleted.

logic controls
A Bematech Company

LS6000 Kitchen Display Controller

- The LS6000 module is an enhanced version of the time proven classic Logic Net.

- The LS6000 module has no internal moving parts. The enclosure is a heavy-duty die cast case.

- No special interface cards or additional hardware is required for the LS6000 module to communicate with peripheral devices.

- The LS6000 module also uses standard Ethernet connection to communicate with the server or workstation

- Two mounting tabs enable these modules to be mounted almost anywhere
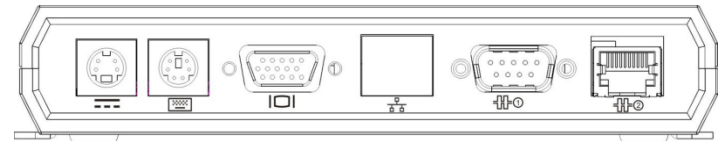
logic controls
A Bematech Company

LS6000 Kitchen Display Controller – Features

- Compact 1.0" H x 6.3" W x 5.1" D form factor
- Highly reliable and rugged, fanless operation
- Low cost, no operating system (OS) required
- Powerful self-diagnostics
- I/O ports to drive bump bar, serial printer, VGA monitor or touch screen monitor.
- Snap-to-lock connectors for secure connections.
- High security, immune to malicious software
- Simple to install, maintain and upgrade
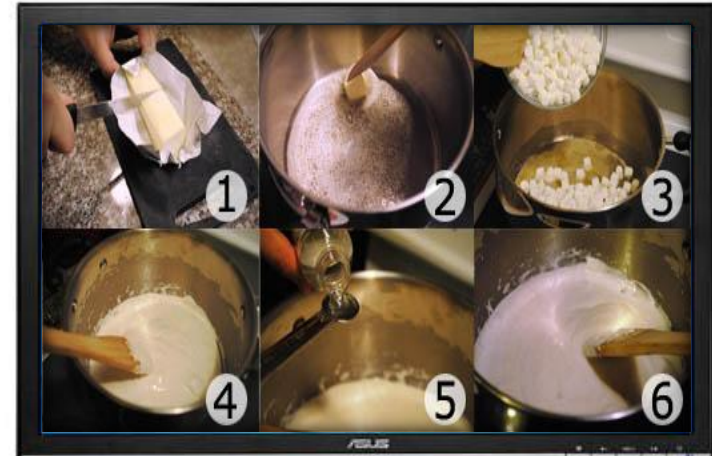 - Remote download of graphic images, firmware, and code page fonts

logic controls
A Bematech Company

LS9000 Kitchen Management Controller

- Adopt all features of LS6000
- Backward compatible with Logic Net and LS6000
- Energy efficient
  - LS9000 + KB1700 ≤ 5 Watts
- High resolution up to 1024x768
- Build-in SD card for additional storage
- Support Dynamic Host Configuration Protocol (DHCP)
- The LS9000 uses standard Ethernet connection or wireless (under development) to communicate with the server or workstation
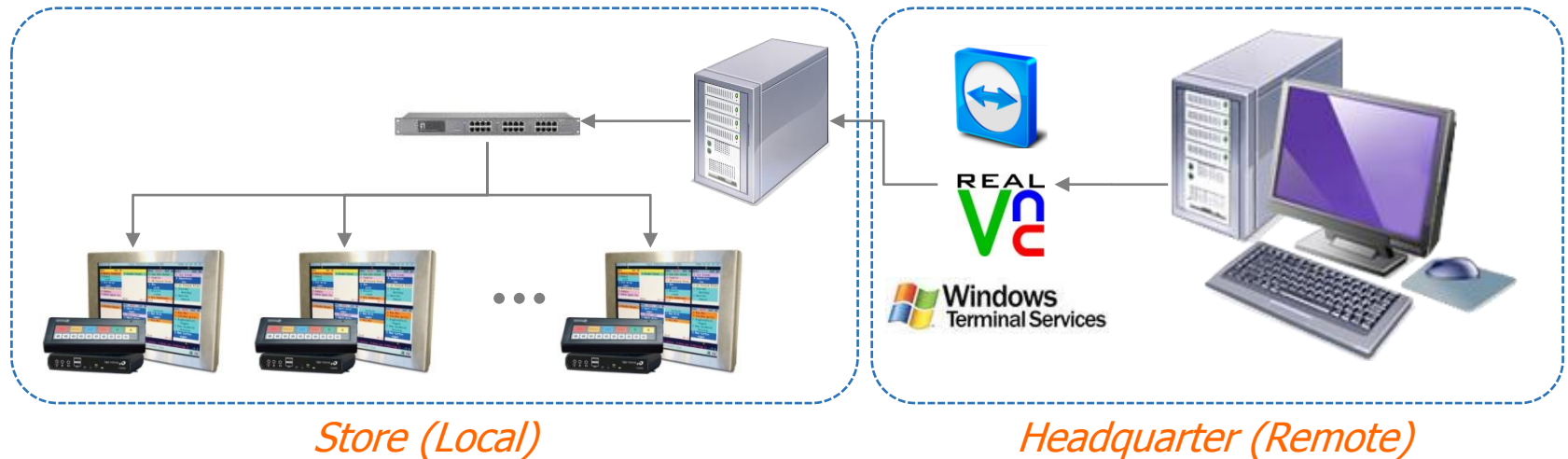
logic controls
A Bematech Company

LS9000 Kitchen Video Controller – Features

- Video Training
  - Support AVI video format
  - Audio output available
  - Resolution: 480 x 320

- Recipe Viewing
  - 24 bit color graphic
  - Support JPEG and PNG format
  - Resolution : 1024 x 768

logic controls
A Bematech Company

LS9000 Kitchen Video Controller – ERDS Function

- Easy Remote Discovery Setup (ERDS) allows a simple deployment and configuration of units on the field.

Store (Local)   *Headquarter (Remote)*

- Benefits
    - Reduce the installation cost and service fee
    - Manage, update, and centralize information uniformly
    - Easy to integrate with other application

logic controls
A Bematech Company

A Few of Our Customers

Hardee's & Car's Jr.

Denny's

Panera Bread

Captain D's

Arby's