**E MENU ORDERING SYSTEM FOR HOTELS**

**Abstract:**

A new design scheme of the E-Menu ordering terminal applied to middle and small hotel is proposed. The development of the E-Menu ordering is based on the software-hardware platform on 89S52, using wireless RF module short-range radio communication technologies. It has advantages of high performance-cost ratio, low power, high reliability and friendly user interface. This paper introduces two sections one is hand held device section and other is main section. Both sections consist of RF transceivers. From the first section menu should taken and saved in memory in that section. This information is forwarded to the main section via wireless communication. Main section will receive the information from the first section and stores that data in memory. According to that order which is stored in memory service is provided. Here LCD is used to display the data PC is used to display data and record for billing.

**INTRODUCTION**

Utilizing information technology to upgrade the service quality and management efficiency has always been received great concern in information development of catering industry. E-Menu Ordering System can help catering enterprises reduce the costs of human resources, improve work efficiency and leap forward from the external image to the internal service quality. Using wireless modules, can save the development costs. However, the user interfaces are not friendly, input errors easily occurs, and the display is single color. And besides, because of using infrared ray communication, transmission range will be extremely limited. The analysis shows that the scarcity of wireless ordering system for the medium-sized hotels directly leads to promote slowly. Through comparing with different grades of E-Menu ordering systems, the key difference lies in selection of ordering terminal and wireless communication. In this paper, the development of wireless handheld terminal is based on the Software-hardware platform of 89S52 and, using short-range wireless communication technologies.

**OBJECTIVE:-**

To build a system for ordering menu in hotel using some modern technologies of electronics.

**BLOCK DIAGRAM:-**

**AT TABLE:-**

RF MODULE

GLCD

KEYPAD

TOUCH PAD

AVR

ATMEGA32

POWER SUPPLY

**AT KITCHEN:-**

POWER SUPPLY

PC

LCD

AVR

ATMEGA32

KEYPAD

RF MODULE

**WORKING:-**

This system is build to modify the hotel ling system as of today. This system uses a 89S52 microcontroller as a processing unit. A customer section contains a touch pad which is used to select the order of a customer. The final order is used displayed on lcd before submitting to central unit that is in kitchen. Is transmitted using a rf wireless module. A keypad is used to give input to the system.

At the kitchen end, the select selected menu is displayed along with the table number on lcd. The data is received using the same rf module used at customer end. A PC interface is provided at kitchen end. So that the order can be observed and make a bill receipt.

**ADVANTAGES:-**

1. Less errors in taking the orders.
2. Less data losses.
3. Unmanned system.
4. Reduces the cost of human resources.

**DISADVANTAGES:-**

1. Costly than normal system.

**CONCLUSION :-**

In this paper, a high performance-cost ratio wireless handheld ordering terminal is proposed, which is based on the hardware platform of 89s52, and RF wireless communication technology. The ordering terminal has the advantages of simple structure, stable operation, low power consumption and friendly interface, thus it has bright market prospect