

5 PEN PC TECHNOLOGY

Prajna G Puranik

6th semester, CSE department

St. Joseph Engineering College

Mangalore

Hamsikha Arun

6th semester, CSE department

St. Joseph Engineering College

Mangalore

ABSTRACT

P-ISM ("Pen-style Personal Networking Gadget Package"), which is nothing but the new discovery, which is under developing stage by NEC Corporation. P-ISM is a gadget package including five functions: a pen-style cellular phone with a handwriting data input function, virtual keyboard, a very small projector, camera scanner, and personal ID key with cashless pass function. P-ISM are connected with one another through short-range wireless technology. The whole set is also connected to the Internet through the cellular phone function. This personal gadget in a minimalist pen style enables the ultimate ubiquitous computing.

INDEX TERMS

P-ISM, display, camera, CPU pen, Battery, Virtual Keyboard, Bluetooth, Wireless Connectivity, etc

1 INTRODUCTION

Five pen PC shortly called as P-ISM ("Pen-style Personal Networking Gadget Package"), is nothing but the new discovery, which is under developing stage by NEC Corporation. P-ISM is a gadget package including five functions: a CPU pen, communication pen with a cellular phone function, virtual keyboard, a very small projector, and a camera. P-ISM are connected with one another through short-range wireless technology. The whole set is also connected to the Internet through the cellular phone function. This personal gadget in a minimalist pen style enables the ultimate ubiquitous computing.

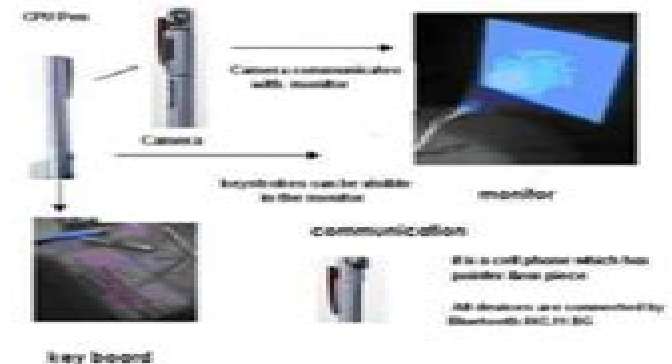


FIGURE OF P-ISM

1.1 COMPONENTS NAME

Concept Component	Function	Reliability
CPU Pen	Computing Engine	Open
Communications Pen	Cell Phone, Pressure Sensitive Pointing Device, Pointer and ear piece. Communications using Bluetooth	Near Term
Display	LED Projector A4 Size Approx. 1024 X 768	Slightly Further Out Than the Phone and Camera
Keyboard	Projected keyboard with 2D IR Sensor	Slightly Further Out Than the Phone and Camera
Camera	Digital Camera	Near Term
Based	Battery Charger and Mass Storage	Open

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Digital Document Processing Bidyut B. Chaudhuri, 2007-03-13 In this book all the major and frontier topics in the field of document analysis are brought together into a single volume creating a unique reference source Highlights include Document structure analysis followed by OCR of Japanese Tibetan and Indian printed scripts Online and offline handwritten text recognition approaches Japanese postal and Arabic check processing Document image quality modelling mathematical expression recognition graphics recognition document information retrieval super resolution text metadata extraction in digital library Biometric and forensic aspects individuality of handwriting detection Web document analysis text and hypertext mining and bank check data mining Containing chapters written by some of the most eminent researchers active in this field this book can serve as a handbook for the research scholar as well as a supporting book for advanced graduate students interested in document processing or image analysis

INTRODUCTION TO INFORMATION TECHNOLOGY, THIRD EDITION RAJARAMAN, V., 2018-01-01 This textbook is designed to teach a first course in Information Technology IT to all undergraduate students In view of the all pervasive nature of IT in today s world a decision has been taken by many universities to introduce IT as a compulsory core course to all Bachelor s degree students regardless of their specialisation This book is intended for such a course The approach taken in this book is to emphasize the fundamental Science of Information Technology rather than a cook book of skills Skills can be learnt easily by practice with a computer and by using instructions given in simple web lessons that have been cited in the References The book defines Information Technology as the technology that is used to acquire store organize process and disseminate processed data namely information The unique aspect of the book is to examine processing all types of data numbers text images audio and video data As IT is a rapidly changing field we have taken the approach to emphasize reasonably stable fundamental concepts on which the technology is built A unique feature of the book is the discussion of topics such as image audio and video compression technologies from first principles We have also described the latest technologies such as e wallets and cloud computing The book is suitable for all Bachelor s degree students in Science Arts Computer Applications and Commerce It is also useful for general reading to learn about IT and its latest trends Those who are curious to know the principles used to design jpg mp3 and mpeg4 compression the image formats bmp tiff gif png and jpg search engines payment systems such as BHIM and Paytm and cloud computing to mention a few of the technologies discussed will find this book useful **KEY FEATURES** Provides comprehensive coverage of all basic concepts of IT from first principles Explains acquisition compression storage organization processing and dissemination of multimedia data Simple explanation of mp3 jpg and mpeg4 compression Explains how computer networks and the Internet work and their applications Covers business data processing World Wide Web e commerce and IT laws Discusses social impacts of IT and career opportunities in IT and IT enabled services Designed for self study with every chapter starting with learning objectives and concluding with a comprehensive summary and a large number of exercises

Documentation Abstracts ,2003 , **Using Technology Tools to Innovate Assessment, Reporting, and Teaching Practices in Engineering Education** Alam, Firoz,2014-01-31 Many can now conclude that utilizing educational technologies can be considered the primary tools to inspire students to learn Combining these technologies with the best teaching and learning practices can engage in creativity and imagination in the engineering field Using Technology Tools to Innovate Assessment Reporting and Teaching Practices in Engineering Education highlights the lack of understanding of teaching and learning with technology in higher education engineering programs while emphasizing the important use of this technology This book aims to be essential for professors graduate and undergraduate students in the engineering programs interested learning the appropriate use of technological tools *Document Analysis Systems VII* Horst Bunke,2006-01-26 This book constitutes the refereed proceedings of the 7th International Conference on Document Analysis Systems DAS 2006 held in Nelson New Zealand in February 2006 The 33 revised full papers and 22 poster papers presented were carefully reviewed and selected from 78 submissions The papers are organized in topical sections on digital libraries image processing handwriting document structure and format tables language and script identification systems and performance evaluation and retrieval and segmentation **Technology in Mathematics Education: Contemporary Issues** Dragana Martinovic,Douglas McDougall,Zerkeriya Karadag,2012 *The Impact of Tablet PCs and Pen-based Technology on Education 2007* Lenard J. Cohen,Jane Prey,Jasna Dragović-Soso,Robert H. Reed,Dave A. Berque,2007 A wide variety of disciplines are embracing Tablet PC s and similar pen based devices as tools for the radical enhancement of teaching and learning Deployments of Tablet PCs have spanned the K 12 undergraduate and graduate levels and have dealt with an amazingly diverse range of subject areas including nursing veterinary science geology ethno musicology anthropology landscape architecture writing mathematics computer science Japanese language physics engineering art economics as well as others Despite the diversity of content areas many deployments have been similar in terms of the passion they have generated among students and teachers This work stemming from the Second Workshop on the Impact of Pen based Technology on Education WIPTE is aimed at identifying best practices in the educational use of pen based computing so that all educators may benefit from this next generation of technology *Document Recognition and Retrieval* ,2001 *Proceedings 1997 Symposium on Document Image Understanding Technology* David Doermann,1997 *Document Analysis and Recognition - ICDAR 2021* Josep Lladós,Daniel Lopresti,Seiichi Uchida,2021-09-04 This four volume set of LNCS 12821 LNCS 12822 LNCS 12823 and LNCS 12824 constitutes the refereed proceedings of the 16th International Conference on Document Analysis and Recognition ICDAR 2021 held in Lausanne Switzerland in September 2021 The 182 full papers were carefully reviewed and selected from 340 submissions and are presented with 13 competition reports The papers are organized into the following topical sections document analysis for literature search document summarization and translation multimedia document analysis mobile text recognition document analysis for social good indexing and retrieval of documents

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