

THIS PROSPECTUS HAS BEEN SEEN AND APPROVED BY THE DIRECTORS AND PROMOTERS OF VITROX CORPORATION BERHAD ("VITROX") AND THEY COLLECTIVELY AND INDIVIDUALLY ACCEPT FULL RESPONSIBILITY FOR THE ACCURACY OF THE INFORMATION CONTAINED HEREIN AND CONFIRM, HAVING MADE ALL REASONABLE ENQUIRIES, THAT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF, THERE ARE NO FALSE OR MISLEADING STATEMENTS OR OTHER FACTS THE OMISSION OF WHICH WOULD MAKE ANY STATEMENT HEREIN FALSE OR MISLEADING. THE DIRECTORS HEREBY ACCEPT FULL RESPONSIBILITY FOR THE CONSOLIDATED PROFIT FORECAST INCLUDED IN THIS PROSPECTUS AND CONFIRM THAT THE PROFIT FORECAST HAS BEEN PREPARED BASED ON THE ASSUMPTIONS MADE.

HWANG-DBS SECURITIES BERHAD, BEING THE ADVISER, UNDERWRITER, SPONSOR AND PLACEMENT AGENT, ACKNOWLEDGES THAT, BASED ON ALL AVAILABLE INFORMATION AND TO THE BEST OF ITS KNOWLEDGE AND BELIEF, THIS PROSPECTUS CONSTITUTES A FULL AND TRUE DISCLOSURE OF ALL MATERIAL FACTS CONCERNING THE PUBLIC ISSUE AND IS SATISFIED THAT THE CONSOLIDATED PROFIT FORECAST (FOR WHICH THE DIRECTORS OF VITROX ARE FULLY RESPONSIBLE) PREPARED FOR INCLUSION IN THIS PROSPECTUS HAVE BEEN STATED BY THE DIRECTORS OF VITROX AFTER DUE AND CAREFUL ENQUIRY AND HAVE BEEN DULY REVIEWED BY MESSRS. DELOITTE KASSIMCHAN, THE REPORTING ACCOUNTANTS.

THE SECURITIES COMMISSION ("SC") HAS APPROVED THE PUBLIC ISSUE. HOWEVER, THE APPROVAL FROM SC SHALL NOT BE TAKEN TO INDICATE THAT SC RECOMMENDS THE PUBLIC ISSUE. SC AND BURSA MALAYSIA SECURITIES BERHAD ("BURSA SECURITIES") SHALL NOT BE LIABLE FOR ANY NON-DISCLOSURE ON THE PART OF VITROX AND TAKE NO RESPONSIBILITY FOR THE CONTENTS OF THIS PROSPECTUS. MAKES NO REPRESENTATION AS TO ITS ACCURACY OR COMPLETENESS, AND EXPRESSLY DISCLAIMS ANY LIABILITY WHATSOEVER FOR ANY LOSS HOWSOEVER ARISING FROM OR IN RELIANCE UPON THE WHOLE OR ANY PART OF THE CONTENTS OF THIS PROSPECTUS.

**INVESTORS SHOULD RELY ON THEIR OWN EVALUATION TO ASSESS THE MERITS AND RISKS OF THE INVESTMENT. IN CONSIDERING THE INVESTMENT, INVESTORS WHO ARE IN ANY DOUBT AS TO THE ACTION TO BE TAKEN SHOULD CONSULT THEIR STOCKBROKER, BANK MANAGER, SOLICITOR, ACCOUNTANT OR OTHER PROFESSIONAL ADVISER IMMEDIATELY.**

ADMISSION TO THE OFFICIAL LIST OF THE MESDAQ MARKET OF BURSA SECURITIES IS NOT TO BE TAKEN AS AN INDICATION OF THE MERITS OF THE PUBLIC ISSUE, VITROX OR OF ITS SECURITIES.

A COPY OF THIS PROSPECTUS HAS BEEN REGISTERED WITH THE SC. A COPY OF THIS PROSPECTUS (TOGETHER WITH THE FORM OF APPLICATION) HAS ALSO BEEN LODGED WITH THE REGISTRAR OF COMPANIES, WHO TAKES NO RESPONSIBILITY FOR ITS CONTENTS.

#### **CHARACTERISTICS OF THE MESDAQ MARKET OF BURSA MALAYSIA SECURITIES BERHAD**

INVESTORS SHOULD BE AWARE THAT THE MESDAQ MARKET OF BURSA SECURITIES IS A DISTINCT MARKET FROM THE MAIN AND SECOND BOARDS OF BURSA SECURITIES IN MANY RESPECTS. IN PARTICULAR, COMPANIES LISTED ON THE MESDAQ MARKET ARE SUBJECT TO DIFFERENT QUANTITATIVE AND QUALITATIVE REQUIREMENTS, WHICH HAVE BEEN PRIMARILY DESIGNED TO ACCOMMODATE HIGH-GROWTH AND/OR TECHNOLOGY COMPANIES.

COMPANIES THAT ARE LISTED ON THE MESDAQ MARKET MAY NOT HAVE AN OPERATING HISTORY OR ANY PROFIT TRACK RECORD PRIOR TO LISTING. AS SUCH, WHILST POTENTIAL INVESTMENT RETURNS MAY BE RELATIVELY HIGH, COMPANIES LISTED ON THE MESDAQ MARKET MAY BE OF HIGHER INVESTMENT RISK.

THE REGULATORY PHILOSOPHY UNDERLYING THE MESDAQ MARKET IS THAT THE MARKET SHOULD BE ALLOWED TO DETERMINE THE MERITS OF THE SECURITIES IN A PARTICULAR COMPANY. HENCE, AS WITH ALL INVESTMENTS, PROSPECTIVE INVESTORS SHOULD BE AWARE OF ALL POTENTIAL RISKS IN INVESTING IN SUCH COMPANIES AND SHOULD MAKE THE DECISION TO INVEST AFTER DUE AND CAREFUL CONSIDERATION BY REFERRING TO, AMONGST OTHERS, THE PROSPECTUS, LATEST FINANCIAL STATEMENTS AND CORPORATE ANNOUNCEMENTS. IN THIS RESPECT, ADVICE FROM A SECURITIES PROFESSIONAL/ADVISER IS STRONGLY RECOMMENDED.

THE CONTENTS OF THE ELECTRONIC PROSPECTUS (AS DEFINED HEREIN) AND THE COPY OF THIS PROSPECTUS REGISTERED WITH THE SC ARE THE SAME. INVESTORS MAY OBTAIN A COPY OF THE ELECTRONIC PROSPECTUS FROM THE WEBSITE OF CIMB SECURITIES SDN BHD AT [www.eipo.cimb.com](http://www.eipo.cimb.com) AND MALAYAN BANKING BERHAD AT [www.maybank2u.com.my](http://www.maybank2u.com.my).

THE INTERNET IS NOT A FULLY SECURED MEDIUM. THE INTERNET SHARE APPLICATION MAY BE SUBJECT TO RISKS IN DATA TRANSMISSION, COMPUTER SECURITY THREATS SUCH AS VIRUSES, HACKERS AND CRACKERS, FAULTS WITH COMPUTER SOFTWARE AND OTHER EVENTS BEYOND THE CONTROL OF THE INTERNET PARTICIPATING FINANCIAL INSTITUTION. THESE RISKS CANNOT BE BORNE BY THE INTERNET PARTICIPATING FINANCIAL INSTITUTION. IF YOU DOUBT THE VALIDITY OR INTEGRITY OF AN ELECTRONIC PROSPECTUS, YOU SHOULD IMMEDIATELY REQUEST FROM VITROX, HWANG-DBS SECURITIES BERHAD OR THE ISSUING HOUSE, A PAPER/PRINTED COPY OF THE PROSPECTUS. IF THERE IS ANY DISCREPANCY BETWEEN THE CONTENTS OF THE ELECTRONIC PROSPECTUS AND THE PAPER/PRINTED COPY OF THIS PROSPECTUS, THE CONTENTS OF THE PAPER/PRINTED COPY OF THIS PROSPECTUS WHICH ARE IDENTICAL TO THE COPY OF THE PROSPECTUS REGISTERED WITH THE SC SHALL PREVAIL.

IN RELATION TO ANY REFERENCE IN THIS PROSPECTUS TO THIRD PARTY INTERNET SITES (REFERRED TO AS "THIRD PARTY INTERNET SITES"), WHETHER BY WAY OF HYPERLINKS OR BY WAY OF DESCRIPTION OF THE THIRD PARTY INTERNET SITES, YOU ACKNOWLEDGE AND AGREE THAT:

- (i) VITROX DOES NOT ENDORSE AND IS NOT AFFILIATED IN ANY WAY TO THE THIRD PARTY INTERNET SITES. ACCORDINGLY, VITROX IS NOT RESPONSIBLE FOR THE AVAILABILITY OF, OR THE CONTENT OR ANY DATA, FILE OR OTHER MATERIAL PROVIDED ON THE THIRD PARTY INTERNET SITES. YOU BEAR ALL RISKS ASSOCIATED WITH THE ACCESS TO OR USE OF THE THIRD PARTY INTERNET SITES;
- (ii) VITROX IS NOT RESPONSIBLE FOR THE QUALITY OF PRODUCTS OR SERVICES IN THE THIRD PARTY INTERNET SITES, PARTICULARLY IN FULFILLING ANY OF THE TERMS OF ANY OF YOUR AGREEMENTS WITH THE THIRD PARTY INTERNET SITES. VITROX IS ALSO NOT RESPONSIBLE FOR ANY LOSS OR DAMAGE OR COST THAT YOU MAY SUFFER OR INCUR IN CONNECTION WITH OR AS A RESULT OF DEALING WITH THE THIRD PARTY INTERNET SITES OR THE USE OR RELIANCE ON ANY DATA, FILE OR OTHER MATERIAL PROVIDED BY SUCH PARTIES; AND
- (iii) ANY DATA, FILE OR OTHER MATERIAL DOWNLOADED FROM THE THIRD PARTY INTERNET SITES IS DONE AT YOUR OWN DISCRETION AND RISK. VITROX IS NOT RESPONSIBLE, LIABLE OR UNDER OBLIGATION FOR ANY DAMAGE TO YOUR COMPUTER SYSTEM OR LOSS OF DATA RESULTING FROM THE DOWNLOADING OF ANY SUCH DATA, INFORMATION, FILES OR OTHER MATERIAL.

WHERE AN ELECTRONIC PROSPECTUS IS HOSTED ON THE WEBSITE OF THE INTERNET PARTICIPATING FINANCIAL INSTITUTION, YOU ARE ADVISED THAT:

- (i) THE INTERNET PARTICIPATING FINANCIAL INSTITUTION IS ONLY LIABLE IN RESPECT OF THE INTEGRITY OF THE CONTENTS OF AN ELECTRONIC PROSPECTUS, TO THE EXTENT OF THE CONTENT OF THE ELECTRONIC PROSPECTUS ON THE WEB SERVER OF THE INTERNET PARTICIPATING FINANCIAL INSTITUTION WHICH MAY BE VIEWED VIA YOUR WEB BROWSER OR OTHER RELEVANT SOFTWARE. THE INTERNET PARTICIPATING FINANCIAL INSTITUTION IS NOT RESPONSIBLE FOR THE INTEGRITY OF THE CONTENTS OF AN ELECTRONIC PROSPECTUS WHICH HAS BEEN OBTAINED FROM THE WEB SERVER OF THE INTERNET PARTICIPATING FINANCIAL INSTITUTION AND SUBSEQUENTLY COMMUNICATED OR DISSEMINATED IN ANY MANNER TO YOU OR OTHER PARTIES.
- (ii) WHILE ALL REASONABLE MEASURES HAVE BEEN TAKEN TO ENSURE THE ACCURACY AND RELIABILITY OF THE INFORMATION PROVIDED IN AN ELECTRONIC PROSPECTUS, THE ACCURACY AND RELIABILITY OF AN ELECTRONIC PROSPECTUS CANNOT BE GUARANTEED BECAUSE THE INTERNET IS NOT A FULLY SECURED MEDIUM.

THE INTERNET PARTICIPATING FINANCIAL INSTITUTION IS NOT LIABLE (WHETHER IN TORT OF CONTRACT OR OTHERWISE) FOR ANY LOSS, DAMAGE OR COSTS, YOU OR ANY OTHER PERSON MAY SUFFER OR INCUR DUE TO, AS A CONSEQUENCE OR IN CONNECTION WITH ANY INACCURACIES, CHANGES, ALTERATIONS, DELETIONS OR OMISSIONS IN RESPECT OF THE INFORMATION PROVIDED IN AN ELECTRONIC PROSPECTUS WHICH MAY ARISE IN CONNECTION WITH OR AS A RESULT OF ANY FAULT WITH THE WEB BROWSERS OR OTHER RELEVANT SOFTWARE, ANY FAULT ON YOUR OR ANY THIRD PARTY'S PERSONAL COMPUTER, OPERATING SYSTEM OR OTHER SOFTWARE, VIRUSES OR OTHER SECURITY THREATS, UNAUTHORISED ACCESS TO INFORMATION OR SYSTEMS IN RELATION TO THE WEBSITE OF THE INTERNET PARTICIPATING FINANCIAL INSTITUTION, AND/OR PROBLEMS OCCURRING DURING DATA TRANSMISSION WHICH MAY RESULT IN INACCURATE OR INCOMPLETE COPIES OF INFORMATION BEING DOWNLOADED OR DISPLAYED ON YOUR PERSONAL COMPUTER.

#### INDICATIVE TIMETABLE

The indicative timing of events leading up to the listing of and quotation for the entire enlarged issued and paid-up share capital of ViTrox on the MESDAQ Market of Bursa Securities is as follows:

Event	Date
Opening of application	16 August 2005
Closing of application	*30 August 2005
Balloting of application	2 September 2005
Allotment of shares	8 September 2005
Despatch of notice of allotment to successful applicants	9 September 2005
Listing of ViTrox's entire enlarged issued and paid-up share capital on the MESDAQ Market of Bursa Securities	12 September 2005

*Note:*

\* *The Directors of ViTrox and the Underwriter may in their absolute discretion mutually decide to extend the closing date of application to a further date(s). Should the closing date of the application be extended, the dates for the balloting, allotment of shares, despatch of notice of allotment and listing of and quotation for the entire issued and paid-up share capital of ViTrox on the MESDAQ Market of Bursa Securities will be extended accordingly. ViTrox will notify the public via advertisements in a widely circulated English and Bahasa Malaysia newspapers in Malaysia in the event there is an extension of time on the closing date of the application.*

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**DEFINITIONS**

In this Prospectus, unless otherwise indicated or required by the context, the following words, expressions and abbreviations shall respectively bear the following meanings:

“Acquisition”	:	Acquisition by ViTrox of the entire issued and paid-up share capital of VTSB comprising 500,000 VTSB Shares for a purchase consideration of RM7,542,012 to be satisfied by the issuance of 75,399,800 Shares at an issue price of approximately 10 sen per share
“Act”	:	Companies Act, 1965
“ADA”	:	Authorised Depository Agent
“ADA Codes”	:	ADA (Broker) Codes of the ADAs
“Adviser” or “Hwang-DBS”	:	Hwang-DBS Securities Berhad ( <i>Company No. 14389-U</i> )
“ATM”	:	Automated teller machine
“Authorised Financial Institution”	:	The authorised financial institution(s) participating in the Internet Share Application, with respect to payments for the Public Issue Shares
“Board”	:	Board of Directors
“Bonus Issue”	:	Bonus issue of 62,000,000 new ViTrox Shares on the basis of two (2) new ViTrox Shares for every three (3) existing ViTrox Shares held after the Public Issue and to be completed prior to the Listing
“Bursa Depository”	:	Bursa Malaysia Depository Sdn Bhd ( <i>Company No. 165570-D</i> ), a subsidiary of Bursa Malaysia Berhad
“Bursa Securities”	:	Bursa Malaysia Securities Berhad ( <i>Company No. 635998-W</i> )
“CAGR”	:	Compounded annual growth rate
“CDS”	:	Central Depository System
“CDS Account”	:	Account established by Bursa Depository for a depositor for the recording of deposit of securities and for dealing in such securities by the depositor
“EBITDA”	:	Earnings before interest, taxation, depreciation and amortisation
“Electronic Prospectus”	:	A copy of this Prospectus that is issued, circulated or disseminated via the internet, and/or an electronic storage medium, including but not limited to CD-ROMs or floppy disks
“EPS”	:	Earnings per share
“ESOS”	:	Employees’ share option scheme
“Deloitte” or “Reporting Accountants”	:	Messrs. Deloitte KassimChan
“FIC”	:	Foreign Investment Committee
“FYE”	:	Financial year ended/ending 31 December

**DEFINITIONS (Cont'd)**

“GDP”	:	Gross domestic product
“GGO”	:	Guaranteed Giro Order
“Infocredit D&B”	:	Infocredit D&B (Malaysia) Sdn Bhd ( <i>Company No. 527570-M</i> )
“Infocredit D&B Report”	:	Independent market research report by Infocredit D&B dated 28 June 2004 (“IMR Report”) of which an executive summary dated 15 July 2005 which contains the updated extracts of the IMR Report has been prepared for inclusion in this Prospectus as set out in Section 13 of this Prospectus
“Internet Participating Financial Institution”	:	The institutions participating in the Internet Share Application
“Internet Share Application”	:	The application for Public Issue Shares through online share application service provided by Internet Participating Financial Institutions
“Issue Price”	:	Issue price of 60 sen per Public Issue Share
“Issuing House” or “MIH”	:	Malaysian Issuing House Sdn Bhd ( <i>Company No. 258345-X</i> )
“Listing”	:	The admission and the listing of and quotation for the entire enlarged issued and paid-up share capital of ViTrox of RM15,500,000 divided into 155,000,000 Shares on the Official List of the MESDAQ Market of Bursa Securities
“Listing Scheme”	:	Acquisition, Public Issue, Bonus Issue, Listing and establishment of ESOS, collectively
“Listing Requirements”	:	The Listing Requirements of Bursa Securities for the MESDAQ Market
“Malaysian Public”	:	Malaysian citizens, companies or societies and Malaysian institutions but excludes Directors of the ViTrox Group, its substantial shareholders and persons connected or associated with them
“MDC”	:	Multimedia Development Corporation Sdn Bhd ( <i>Company No. 359346-D</i> )
“MESDAQ Market”	:	MESDAQ Market of Bursa Securities
“MITI”	:	Ministry of International Trade and Industry
“MNC(s)”	:	Multi-national corporation(s)
“MSC”	:	Multimedia Super Corridor
“NDP”	:	National Development Policy
“NTA”	:	Net tangible assets
“PAT”	:	Profit after tax
“PBT”	:	Profit before tax
“PE Multiple”	:	Price-earnings multiple

**DEFINITIONS (Cont'd)**

“Participating Financial Institutions”	:	is as defined in Section 16 of this Prospectus
“Placement Agent”	:	Hwang-DBS
“Prescribed Security”	:	Shares of a company that are prescribed by Bursa Securities to be deposited in the CDS
“Promoters”	:	Chu Jenn Weng, Siaw Kok Tong and Yeoh Shih Hoong, collectively
“Public Issue”	:	Public issue of 17,600,000 new ViTrox Shares comprising of:- <ul style="list-style-type: none"> <li>(i) 1,900,000 new Shares to be made available for application for eligible Directors and employees of the ViTrox Group;</li> <li>(ii) 3,000,000 new Shares made available for application by the Malaysian Public; and</li> <li>(iii) 12,700,000 new Shares to be placed with institutional investors and/or individual investors by the Placement Agent</li> </ul> at an issue price of 60 sen per share payable in full upon application
“Public Issue Shares”	:	17,600,000 Shares to be issued at an issue price of 60 sen per Share payable in full upon application pursuant to the Public Issue
“R&D”	:	Research and development
“RM” and “sen”	:	Ringgit Malaysia and sen, respectively
“ROC”	:	Registrar of Companies
“S&P Agreement”	:	Conditional Sale and Purchase Agreement dated 25 June 2004 entered into between ViTrox and the Vendors in relation to the Acquisition
“SC”	:	Securities Commission
“SC(ECU)”	:	Securities Commission (Equity Compliance Unit)
“Sponsor”	:	Hwang-DBS
“SRM Tech”	:	SRM Technology (M) Sdn Bhd ( <i>Company No. 501375-T</i> )
“Transaction Record”	:	is as defined in Section 16 of this Prospectus
“Underwriter”	:	Hwang-DBS
“Underwriting Agreement”	:	The Underwriting Agreement dated 8 August 2005 between ViTrox and the Underwriter
“USD”	:	American dollar
“US” or “USA”	:	The United States of America
“Vendors”	:	Chu Jenn Weng, Siaw Kok Tong, Yeoh Shih Hoong, Wong Ting Lik, Koay Soo Ming, Foo Wen Pok, Ooi Chek Siah, Kam Su Ning, Chee Chong Hin, Leong Wai Shun and Tan Hong Soon, collectively

**DEFINITIONS (Cont'd)**

“ViTrox” or “Company”	:	ViTrox Corporation Berhad ( <i>Company No. 649966-K</i> )
“ViTrox Group” or “Group”	:	ViTrox and VTSB, collectively
“ViTrox Share(s)” or “Share(s)”	:	Ordinary share(s) of 10 sen each in ViTrox
“VTSB”	:	ViTrox Technologies Sdn Bhd ( <i>Company No. 507043-P</i> )
“VTSB Shares”	:	Ordinary shares of RM1.00 each in VTSB

In this Prospectus, words denoting the singular shall include the plural number and vice versa, words denoting any gender shall include all genders, words denoting persons shall include natural persons, firms, companies, bodies corporate and unincorporated bodies, and a reference to a Section is a reference to the relevant section of this Prospectus.

Unless otherwise indicated, any reference in this Prospectus to any legislation, statute or statutory provision is a reference to that legislation, statute or statutory provision for the time being as amended or re-enacted, and to any repealed legislation, statute or statutory provision which it re-enacts (with or without modification).

Any reference to a time or day in this Prospectus shall be a reference to that time or day in Malaysia, unless otherwise stated.

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**TECHNICAL DEFINITIONS**


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In this Prospectus, unless otherwise indicated or required by the context, the following words, expressions and abbreviations shall respectively bear the following meanings:

Accuracy	The extent to which a machine vision system can correctly measure or obtain a true value of a feature. The closeness of the average value of the measurements to the actual dimension
Active Server Page (ASP)	A web enhancement tool that was developed and distributed by Microsoft. ASP is simply a text file script with the extension .asp containing HTML, client and server side script
Algorithms	Step-by-step procedure or method for solving a problem
Coplanarity	Defined as a unilateral tolerance zone measured upward from the seating plane. The solder balls are not all aligned with respect to the seating plane, and a tolerance for this misalignment is specified
Die (Plural for die is dice or dies)	An individual rectangular pattern on a wafer that contains circuitry to perform a specific function. The internal circuitry is made of thousands of tiny electronic parts. It refers to a semiconductor component or part that has not yet been packaged. Also known as IC or chip (see definition on IC)
Electromagnetic (EM) spectrum	A vast band of energy frequencies extending from radio waves to gamma waves to x-rays etc ranging from very low frequencies to extremely high frequencies
End-users	Semiconductor manufacturers that produces the IC. These companies normally procure the machines/handlers from OEM (see definition) to perform the functions mentioned above.
Externalization Template Library (XTL)	XTL is a library of template classes and functions for reading/writing structured data to/from an external (platform independent) representation
Frame	A complete video picture, representing a snapshot of a scene, with an effective exposure time of 40 milliseconds ("ms") (Europe) or 33.3 ms (USA)
Frame grabber	A device which receives video from a camera, digitizes it, places it into memory, and makes the complete digitized image in memory available to the processor
Fuzzy Logic	A type of logic that recognises more than simple true and false values. It represents a departure from classical two-valued sets and logic, that use "soft" linguistic (e.g. large, small, hot, cold, warm) system variables and a continuous range of truth values in the interval [0,1], rather than strict binary (true or false) decisions and assignments
Hardware	Electronic image-processing equipment designed specifically for applications requiring high-speed operation. Probably of fixed / limited functionality
High Speed Imaging	Image capture near, at or above 1800 parts per minute or (30 parts per second)
Integrated Circuit (IC)	An electronic circuit that consists of a single chip usually of silicon material with many components such as transistors, diodes and resistors fabricated on it
ICT	Information and Communication Technology (see definition on IT)



**TECHNICAL DEFINITIONS (Cont'd)**

Internet	A global computer network of interconnected commercial, educational and governmental networks that utilise a common communications protocol. Originally designed by the US Department of Defence so that a communication network could withstand a nuclear war and serve military institution worldwide, the Internet was first known as the ARPANet. A system of linked computer networks, international in scope, that facilitates data communication services such as remote login, web surfing, file transfer, electronic mail, and newsgroup
Input/Output (I/O)	Any program, operation or device that transfers data to or from a computer and to or from a peripheral device. The transfer of data to and from the processor to memory, expansion slots and to the motherboard is also known as I/O
IT	Information Technology – refers to the broad range of technologies and applications that support the creation, processing, transmission, storage and management of digital information. IT includes hardware systems such as computers and network equipment, as well as software applications that run on computers
Java	A cross-platform programming language from Sun Microsystems that can be used to create animations and interactive features on World Wide Web pages. Java programs are embedded into HTML documents. Java is an interpreted language. This means that it is written for a piece of software that then interprets the code for the hardware/operating system. The Java Virtual Machine is the piece of software that interprets Java for different platforms
LAN	A Local Area Network is a communications network that serves users within a confined geographical area, usually contained within one or more floors of an entire building complex
Lead	The metal connection that extends from a semiconductor device package to make contact with the printed circuit board
Lead count	The total number of leads on a semiconductor device
Lead frame	A flat metal part which has a place to mount a semiconductor die and leads which can accept bond wires to connect to the die. The principal component of many semiconductor packages
Machine Vision	The engineering of integrated mechanical-optical-electronic-software systems for examining natural objects and materials, human artifacts and manufacturing processes, in order to detect defects and improve quality, operating efficiency and the safety of both products and processes. It is also used to control machines used in manufacturing
Machine Vision Inspection System	The automated process of visually inspecting a component or assembly for defects and/or measurement criteria using machine vision technology
Metrology	Equipment or process used to produce a measurement
Micron (micrometer)	Unit of length. 1/1000 mm
Noise	Irrelevant or meaningless data resulting from various causes unrelated to the prime application requirements. In Machine Vision, noise is caused by varying ambient light (e.g. sun-light, fluorescent tubes providing environmental lighting), dirt on the widget, optics or light source, as well as the usual sources of noise in electronics equipment: earth loops, EM radiation, capacitive coupling, induction, etc.

**TECHNICAL DEFINITIONS (Cont'd)**

Neural Network	A processing device, either an algorithm, or actual hardware, whose design was inspired by the design and functioning of animal brains and components thereof. Most neural networks have some sort of "training" rule whereby the weights of connections are adjusted on the basis of presented patterns. In other words, neural networks "learn" from examples and exhibit some structural capability for generalisation
Original Equipment Manufacturer (OEM)	Machine makers or automation companies which produces handlers/machines to perform testing, vision and/or taping. Our vision systems are usually integrated onto their machines as part of the equipment to handle the device/unit inspection.
Printed Circuit Board (PCB)	A polymer-based board containing conductor tracks, which becomes an electrical circuit when components are attached/mounted and soldered to it. The components can either be soldered to the conductor tracks, or interconnected by means of wirebonds (chip and wire) or by solder bumps (flip chip)
Personal Digital Assistants (PDAs)	A handheld device that combines computing, telephone/fax and networking features. A typical PDA can function as a cellular phone, fax sender, and personal organiser. Many PDAs incorporate handwriting and/or voice recognition features. PDAs also are called palmtops, handheld computers, and pocket computers
Pitch	The center-to-center distance between adjacent leads on a package
Pixel or Picture Element	Smallest addressable portion of a digital image. Within the boundaries of a given pixel, the intensity and colour can be considered constant
Precision	The degree of spread or deviation between each measurement of the same part or feature
Prism	An optical device with two or more non-parallel, polished faces from which light is either reflected or refracted. Often used to redirect light as in binoculars
Protocol	The rules, formats and functions governing communications and interfaces between components in a communications or computer system or network
Red-Green-Blue (RGB)	This is a three primary colour system used for video colour representation
Repeatability	The ability of a system to reproduce or duplicate the same measurement
Resolution	Resolution is a measurement of the imaging system's ability to reproduce object detail
Sales Agents	Appointed to sell ViTrox's machine vision systems to OEM/end-user in their area of coverage - e.g. Taiwan, China. Agents will be provided with quotations of the products based on their dealing with their customers. Agents will deal directly with these customers in terms of providing quotation and first-level service and support
Sales Representatives	Appointed to sell ViTrox machine vision systems to OEM/end-user in their area of coverage - e.g. Taiwan, China. ViTrox provides quotation for its vision systems to the OEM/end-users directly. Upon confirmation of the project and receipt of payment, ViTrox will pay the sales representative a sales commission. Sales Representative role includes providing first-level service and support

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**TECHNICAL DEFINITIONS (*Cont'd*)**

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Smart Camera	Self-contained vision system, contained in the camera body, including lens, image sensor, image processing and decision-making functions like pass/fail functions, interface electronics and software
Systems Integration	Art of constructing a harmonious assembly of optical, lighting, mechanical hardware (transport mechanisms, jigs, mounts), electronics (opto-electronics, analogue and digital), software and environmental-protection enclosures, to product a system that meets the agreed specification and is functionally and ergonomically acceptable to the users
Thresholding	Image-processing operation which converts a grey-scale image into a binary image, by setting all pixels above a defined value to white and all others to black. Despite its simplicity and intuitive appeal, fixed-value thresholding is unreliable and should always be preceded by appropriate filtering and careful control of the illumination level
Throughput Rate	Processing Speed – Normally expressed in parts per minute. This single parameter does not give any indication of the time required by a vision system to receive, analyse and interpret image formation for an individual piece-part

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