

ICT

INFORMATION

COMMUNICATION

TECHNOLOGY



PRODUCTS CATALOGUE

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DISPLAY SYSTEMS

TMP-LITE-LED - Outdoor LED Display Solutions



The outdoor LED display product range - the TMP-Lite-Led - is a rugged, IP65 rated outdoor display product that delivers high-resolution full color images with unequalled brightness and contrast levels.

The cutting-edge technology, incorporated in the TMP-Lite-Led, ensures perfect video and graphics performance across the entire display, regardless of shape, size or resolution.

The TMP-Lite-Led product range offers a modular outdoor display concept that allows the build-up of almost any shape and size display that is ideal for use at outdoor locations with large viewing distances. The TMP-Lite-Led range is available in 10mm and 14mm resolution versions.

The TMP-Lite-Led displays are ideally suited for countless applications - from entertainment venues to sport stadiums, theme parks and outdoor advertising.

TMP-VisionPro C2 Series Multiscreen Display Wall System



TMP-VisionPro C2 Series is the most popular XGA display cube for 24/7 mission critical operations. It represents the ultimate in its industry in the areas of brightness, contrast and sharpness, color fidelity, and image uniformity.

It comes with a built-in processor, an advanced feature of signal processing that makes TMP-VisionPro C2 Series a cost effective multi-screen display solution for Control Room applications such as Monitoring, Process Control, Security, Information Centres, etc.

Series Features and Benefits

- Proven DLP™ display technology ensures vivid image quality
- Designed for 24/7 critical operation with high reliability
- Broadest range of cube sizes: 50", 60", 67", 80" & 84" (diagonally) for the customer's different options
- Latest "Brilliant Color" DMD chip with XGA native resolution (1024 x 768)
- Proprietary BUCS technology with guaranteed total screen flatness
- Digital Color Compensation (DCC) technology for perfect color matching
- Built-in signal processing allows 9 windows on a single screen
- Choice of dual lamp option for redundant purposes
- Easy operations and maintenance with low cost of ownership
- Linear or curved wall design

Advertising LED Display



Products Features

- Cutting-edge pixel by pixel technology is applied in our Advertising LED display, so that the whole LED screen achieves the best color and brightness consistence. Even after years of aging, if some modules need to be replaced, the new ones can be easily calibrated.
- Visual pixel technology is applied to the LED screen, which can realize four times of resolution with the same quantity of LED lamps.
- Except for installation frames, we supply full set of LED display system including control system, power supply, software, accessories, installation construction drawings and other services.
- Standard cabinet design. The same cabinet size fits for different pixel pitch, so as to save much installation design cost and installation frame production cost.
- The unique water-resistant and salt-resistant cabinet mechanical design makes the cabinet with IP65 ingress protection level, and it can be installed outdoor directly. In addition with the thinner and light weight cabinet design, our screen becomes more thinner, and less weighted and more easy for installation.
- Our LED display can be installed in different climate areas all over the world. Low temperature as -20°C and high temperature as +60°C, without AC for cooling, so as to save the cost of AC and power.
- Newest LEDs are applied to the LED screen, outdoor LED display brightness is $\geq 8,000$ cd/m², and its horizontal viewing angle is still $\geq 140^\circ$; Vertical viewing angle is still $\geq 60^\circ$.

Indoor Full Color Led Video System



Easy and Simple Connection to A/V Equipment

APPLICATIONS

For furnishing information

Providing various information in Airports, Stations, Large shopping malls and Public places.

For Various Events

Providing very effective result as a new marketing strategy.

For Indoor Sports

Delivering impression with full of activeness for making players' breath and audiences' fever to be one.

For Education

Improving educational effect through the clear display in Churches, Museums, Lecture rooms and Art galleries.

For Commercial Ad.

Used as an elective media attracting customers' attention in Hotels, Department stores, Cinemas and Financial centers.

Greatest View on Earth

We constantly strive and exceed our valued customers' request by providing superior design with 1,070 million colors and manufacturing facilities.

Digital Information Display



What is a DID Digital Signboard?

DID Digital Signboard is cutting-edge Multimedia Display System using ultra-large HD LCD display technology. This innovative digital display system is about to bring a new sensation to the indoor/outdoor display advertisements.

Diverse Screening and Advertising Effects, DID Digital SignBoard does it all!

Super Sized Display Picturesque HD Images!

DID Digital Signboard

DID Digital Signboard with its super slim thickness, high resolution, high luminance and low electricity consumption features, uses high resolution TFTLCD panels to provide various super sized images ranging from 46"s to 82"s.

Provides unrestrained effective use of room space, and with a perfectly flat surface, there are no display distortions. It is also free from short-distance eye glare, and supports HD graded WXGA resolutions.

Various Internet feel motion image can be displayed simultaneously. Videos and images can also be easily expressed by an USB portable hard disk drive.

360° Led Video Displays



Real Color Pixel

Traditionally, the Red, Green and Blue primary color components are placed side-by-side to create an RGB pixel. With our solution, the Red, Green and Blue are turned on at the same exact spot yielding a crisp and sharp image visible from any distance.

Ultimate Color Uniformity

The color uniformity is consistent and accurate within $\pm 3\%$.

Spinning LEDs

Delivers perfect image quality with high brightness and resolution. Incorporates its proprietary spinning LEDs Technology to create unparalleled image quality. The core structure consists of a drum incorporating several LED modules. As the drum spins, the system controls the lighting of each pixel at a precise location within 1/100th degree accuracy. The result is a perfect image quality with unsurpassed high resolution and brightness.

Outdoor HDTV Systems



Outdoor HD TV is the ultimate outdoor entertainment accessory. It is a full High Definition, daylight viewable LCD monitor. It brings traditional indoor activities to the great outdoors. Outdoor HD TV brings High Definition right into your backyard and creates an entirely new entertainment room.

Soak in the hot tub while watching a romantic movie, watch the big game with your buddies while barbequing and not missing a minute of the action, enjoy family time as you relax under the stars while enjoying your Outdoor HD TV. The list is endless for the applications of the Outdoor HD TV.

Outdoor HD TV is the first commercial grade, all weather, High Definition 1080p daylight viewable LCD screen. Models include our Air Cooled T1 unit with an operating temperature range of 32°-122° F and our T2 model with an operating range of -4°-122°F with an integrated heater.

The storage temperatures for both models is -4°-140°F. Please refer to our line for our other commercial line of products to meet requirements that are more demanding.

Standard Definition and High Definition input signals include: HDMI, HD/SD component (YPbPr, VGA, S-Video and composite).

Weather resistant LCD HD outdoor Screens



Suitable for use, whatever the weather

TMP-iVO is a specialist new range of weather resistant LCD screens, perfect for year round use outdoors or in damp, dusty or humid environments.

These robust panels, manufactured using a lightweight aluminum frame and a toughened glass screen, are fully sealed and have achieved a weather resistance rating of IP56. This makes them the ideal addition to a whole host of outdoor situations, including pub gardens, shopping centers, public transport and other environments that require specialist, hardwearing screens, such as spas or swimming pools.

TMP-iVO screens are available in a wide variety of screen sizes and specifications, offering excellent choice and versatility:

- 26" HD Ready LCD
- 32" HD Ready LCD
- 42" HD Ready LCD
- 42" Full HD LCD
- 47" Full HD LCD
- 55" Full HD LCD
- 70" Full HD LCD

Stereoscopic 3D Imaging System



The total solution package for 3D technology in the fields of: 3D cameras, 3D monitors, 3D projectors, 3D content and 3D Software through constant research and development. We apply the highest resolution and innovations to our existing technologies that we own, it has been applied to a lot of 3D technologies, and to is at the forefront of the 3D imaging and display industry.

3D imaging is not a dream anymore

3D Imaging is becoming reality, no longer a future technology. Please do not compare this product with the previous 3D imaging systems that you have experienced before. You may not believe your eyes. The 3D camera and 3D imaging technology makes it possible for improved 3D rendering and HD quality image processing from this high performance equipment. It is possible to verify the 3D image data taken in real time by utilizing small portable 3D monitors. You may take pictures without excessive 3D effects or loss of 3D effects.

Stereoscopic 3D Camera

It is possible to apply this technology to all applicable fields, for example: pictures books, art, etc. ZIG is provided for convenient and accurate performance.

Stereoscopic 3D Monitor (Portable)

Use on location while filming with the 6" portable 3D monitor
Check and adjustment of the 3D image in real time through connection with camera or camcorder.

3D-Display System



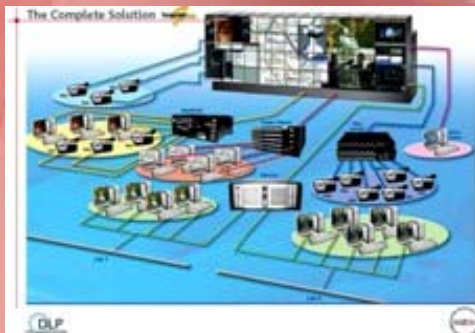
Accessible and Affordable for All – The 3D Display System

The Multi-User 3D Displays are auto-stereoscopic screens that offer high image quality, brilliant resolution, and dynamic color depth at affordable prices. Based on barrier panel technology that precisely aligns left and right eye images simultaneously, these displays offer true glasses-free 3D viewing without any optical aids. The Multi-User 5-View display system has the distinct advantage of providing a perfect spatial image that can be seen with the naked eye from just about any angle, height, and distance by everyone, comfortably and hassle-free.

SVI 19" Multi-User 3D Display - Big 3D Bang for the Buck

An entry level screen that's well suited for creating advanced 3D graphics in marketing, engineering, medical, or Geo Information Systems. A truly versatile display that's equally at home on a workplace desktop as it is in the conference room as a presentation screen. Featuring SVI 5-View technology, this display delivers glasses-free 3D in high resolution, dynamic color depth, and optimal brightness. Not just for beginners, this screen is used by pros and semiprofessionals alike. It's the perfect device for getting into 3D at a 2D price.

Rear projection Videowall



DLP TECHNOLOGY VIDEOWALL

Operation features

Multimedia Room Videowall suited to the changed technological needs and enhanced quality signal.

As for the data presentation mode, and video images, a 4x2 "wall" is required.

From a purely technical point of view, the Videowall will have the ability to accept signals, originated either from video sources (cameras and video recorders) and Computer (Graphics) simultaneously and possibly with the same display quality.

The Videowall will have simple connectivity (via Bus RS 232C) with the Command and Control System. Finally, it must be highlighted the easy configuration of the system being provided with a man/machine user-friendly interface which still does not require special computer skills for the operation.

System description

By the technological premises and the operational requirements as defined in the preceding paragraphs an hypothesis of solution is promised, using the following system:

4x2 Solution

50" HyperCube™ XGA wall,

With a projection surface

Width cm. 400 x High cm. 126 x Depth cm. 60

Total resolution of 4.096 x 1.536 Pixels.

Entertaining Systems



Ground-Effect

This System revolutionizes entertainment and advertising public spaces projecting visual content upon the surface, including floors, walls and tables.

Ground Effect uses the patented system control of movement, for an interactive virtual world creation. Our tracking system, continuously shows the bodies position, allowing real time interaction between users and the display.

Ground-Effect special rays can be customized in countless way, waves are formed when a feet is put upon the pool, browsed images fly past the hand, fire bubbles and lights are released when the display zone is accessed.

Photographs yourself breaking the ice immediately releasing a trail of fishes taking off. Football and other virtual games.

Ground-Effect is applicable in several situations, in retail stores, terminals' sport areas. Always attracts crowds in exhibitions and brings new levels of entertainment in night clubs and other similar venues.

Ground-Effect is easily customizable. Our creative services team is at your disposal for cooperation in the integration of your design or to promote your ideas by Ground-Effect through 2D and 3D graphics, audio and video.

Mirror Vision



PROJECTION

Mirror vision is a product line which gives display technologies a whole new look and feel. A range of display solutions that fully integrate with their surroundings, creating light and space in any room.

This unique mirror/glass 'reflections technology' is combined with a number of display devices to create a screen with a difference.

When the device is switched on, the PC / TV images magically appear through the mirror surface, becoming a high resolution screen. Then when the display device is switched off the screen surface reverts back to a normal mirror.

STANDARD FEATURES

- Satin silver frame – 19mm (0.75")
- Transmission – 45%
- Peak Gain – 2
- Thickness – 7mm (0.27")
- Viewing cone - 120°
- Display – mirror bronze
- Screen sizes 40", 60", and 80" diagonal

APPLICATIONS

- Home theater / entertainment
- Corporate boardrooms
- Hotel receptions
- Fashion stores / changing rooms
- Hair & beauty salons
- Bathrooms / restrooms

Front Projection Screens



TITANIUM SCREEN

The Titanium Screen is a specially formulated rigid flat front projection screen providing higher gain, high contrast and perfect color reproduction in ambient light. This unique screen technology offers superior performance to conventional screens, making it the preferred choice for all front projection applications. There is no need to turn down the lights; you will still achieve bright and vivid images. Standard screen sizes up to 138" – panels can be multiplexed for large screen presentations (virtually seamless).

Titanium screens can be wall mounted, framed or suspended on a wire cable system for a more minimalist look.

STANDARD FEATURES

- Hand cast acrylic screen
- Peak gain – 7
- Thickness – 3mm (0.12")
- Viewing cone - 160°
- Colour – silver reflective matt surface
- Screen sizes 30" – 138" diagonal
- Suitable for use with NEC's – WT610 / WT615

360° Screens



ELECTRIC ROLL - UP SCREENS

This unique projection screen technology produces a perfectly viewable image on both sides at the same time with 180° angle of visibility, creating the world's first 360° projection surface. Providing the flexibility of front or rear projection for those difficult installs.

The 360° electric roll-up screens are available in 4 standard screen sizes 60", 80", 100" diagonal (4:3 aspect) and 120" diagonal (16:9 aspect). Each unit comes complete with a handheld RF remote control, to operate the screen.

STANDARD FEATURES

- Flexible optical film – 120 micron.
- Image displayed on both sides
- Perfect colour reproduction
- High definition / contrast images
- Peak gain – 5.7
- No hot spots – even brightness
- Works in high ambient light

LCD Film



Tempestini Group has recently made major developments with the PA-LC technology and it is now available as a Film that can be simply applied to existing glass. The Film works in the same way as the LCD Glass, but offers greater flexibility in the market, especially where it is difficult or costly to replace the existing glass. Other benefits include applications on curved glass and custom shaped LCD panels. By applying a mirror reflective film to the glass surface first, the LCD Film can be used as a front projection screen.

SPECIFICATION

LCD Film Laminate: PA-LC - Polymer Coating – PET Protective Coating (370 microns)

Power – 110 VAC

Frequency 50 – 60HZ

Electrical current – 0.1 amperes per sq.metre/yard

Power consumption – 7 watts per square metre/yard

Switching – less than 1 second

Operation mode – (ON)transparent (OFF)translucent

APPLICATIONS

The LCD Film has been designed primarily for internal applications, if it is used on external glazing it must be protected against UV. The Film can be produced to custom sizes (maximum w 98cm x h 300cm 38.5" x 118"). Multiple panels can be positioned together to create a virtually seamless display.

LCD Glass



Dayview LCD Glass is a revolutionary 'new product' which will transform the glazing industry. This special glass laminate consists of a liquid crystal polymer which changes its visual appearance when an electrical current is activated. A simple ON – OFF mode transforms the glass from being clear (transparent) to opaque (translucent). When the glass is in its opaque or frosted state images can be rear projected onto the glass to create a high definition display screen (UXGA resolution).

Dayview LCD Glass has many applications, but is primarily used for privacy, security and visual display.

FEATURES

Dayview LCD Glass is suitable for both indoor and outdoor applications (with protection). Replacement LCD Glass panels can be produced to custom sizes (maximum w 98cm x h 280cm 38.5" x 110").

Multiple panels can be positioned side by side for large glazed areas.

- switches from clear to frosted
- privacy and security
- rear projection screen
- high UV protection
- simple and safe to use
- custom sizes
- indoor and outdoor
- durable and reliable

Rear Projection Solutions



MIRROR RIGS

Tempestini Group can provide a range of rear projection mirror rigs for those wanting to project large, bright and crisp images in the minimum amount of space. These mirror rigs are available in 3 standard screen sizes – 80", 100" and 120" diagonal.

A simple construction comprising of the optical mirror, aluminum frame, projector mount and all interconnecting framework, makes them cost effective and easy to install. Our mirror rigs can be built into free standing displays or integrated into a wall / partition to provide the ultimate large screen display. Ideal for use with our Ultra Black™ diffusion screens. Custom mirror rigs can be designed and manufactured to order.

Tempestini Group can provide a unique range of large screen rear projection monitors in 3 standard screen sizes 80", 100" and 120" diagonal. These large PC / TV monitors feature a stylish, slim line enclosure which is available in a variety of different finishes to suit both modern and traditional interiors. Suitable for any number of different applications – boardrooms, cinema rooms, conferences, exhibitions, training facilities, advertising screens etc...

Diffusion Screens



The standard range of High Gain diffusion screens were developed for general rear projection applications, making them a cost effective solution for general display - retail (POP), exhibition and advertising. This natural frosted white material performs well in high ambient light environments, making it suitable for window displays.

This high brightness screen technology offers lower contrast levels, ideal for general display, but not recommended for high end video applications.

STANDARD FEATURES

- Low cost rear projection screen
- Transmission – 87%
- Peak Gain – 7.4
- Horizontal half gain value (off axis) - +/-26°
- Vertical half gain value (off axis) - +/-20°
- Thickness – 3mm (0.12")
- Viewing cone - 120°
- Color – white frosted (matt)
- Screen sizes 30" – 138" diagonal

Plasma Videowall



- First in the world in giving the possibility of endless multiple extensions (1 + n.d.) PDP by n*n
- Enhanced image continuity due to the reduced space occupied by the 4 sides of the monitor
- Enhanced quality image
- Protection for the DLP
- Easy installation
- Ultra-flat design

Specifications:

- Model: M-PDP
- Size : 42"
- Dimensions: 926.4 x 523.6 mm
- Aspect: 16 : 9
- Resolution: 853 x 480
- Brightness: 1,000 cd
- Contrast: 3,000 : 1
- Weight: 25kg
- Depth: 76.5mm
- Video wall: Multi screen (N X N)

COMMUNICATION TECHNOLOGY

GSM and GPS Rugged Mobile Phones



The XP3 - A mobile handset with advanced features and functionality that is built to serve the most demanding users' real-world needs now and into the future.

But the XP3 is far more than a simple container for communications service. Sonim mobile is setting the new standard for ruggedized phones. The XP3 headset was built for people who use their mobile phones as tools, not fashion accessories.

It is engineered to be equally at home in a factory and forest, a construction site or a mountain, on a boat in the middle of the ocean or a dry, sweltering desert. The XP3 was created to suit people who value solidly constructed tools that are built to last rather than disposable devices.

The Rugged Performance Standard is a set of nine benchmarks designed to measure a phone's complete preparedness for extreme environments. Phones are rated on their rugged mechanics, resistance to external elements and ability to perform in the worst of conditions. Redefining "rugged," the RPS establishes the new industry standard by which all industrial cell phones should be judged.

RoIP – Radio Over IP



Introduction

Voice Services Switch Platform (TMP-VOICE-SS) was developed with wide capacity, provided with command and control systems, monitoring system and simulation and training system. Provides full voice communication applications (intercom, radio, ads, phone). The TMP-VOICE-SS architectural concept and its software based implementation allows for saving of most hardware elements installation costs usually required for such applications.

Among the TMP-VOICE-SS functions and applications are:

- Radio over IP
- Intercom over IP
- IP announcement
- Simulation and training over radio & intercom communication
- Scenario Generation
- Voice Recording
- API the customer application integration with the TMP-VOICE-SS Platform

Emerging and Merging Solutions From AV and IT World



Tempestini Group products provide the benefits of technology from merging AV and IT industry. TMP is known for its Wireless Computer video receiver / wireless presentation gateway, complete line of AV Extenders for Audio, high-resolution and HD video, CAT5 CAT6 interface and twisted-pair active baluns, Network recorder with simultaneous broadcaster over LAN/WAN (netRPB) and IPTV player. Tempestini Group's products are integral part of any projects of AV system integration or dynamic digital signage or info-communication projects or installations world-wide.

WiD110 is a wireless receiver that connects to any display and enables multiple computers to stream the desktop screen one at a time to any LCD display or Plasma or Projector without any cables.

Conference Control function allows the host to moderate the meeting. Use your existing projector or big-screen display and makes it a multi-user wireless device without modification. It could be independent gateway as DHCP server or become a network resource on your existing wireless network of access point or router. Connect to device using your wireless 802.11 g/b NIC and start presenting. Simple and fast.

Digital Audio and Video Recording System- for the recording, transcription and storage



The system offers cutting-edge technologies, without using tapes for large scale recording and relevant management. Whether you are audio or video recording, simultaneous, multiple channels and formats, recording is possible and the process can be easily automated. The media are filed and stored in view of a quick recovery and preview – even while recording is still operating. Inexperienced users can immediately operate the simple controls Play, Record, Fast Forward.

Active Log target customers includes:

- Parliamentary and legislative facilities
- Court proceedings and clues and evidences collection
- Education centers and institutes
- Business meetings or live events
- Media Monitoring and marketing surveys structures

RELIABLE

The redundant architecture assures recordings free of problems.

REDUCES ERRORS

Due to the possibility of easy reviewing of the recorded material, the system reduces those errors associated to the tapes transcription.

CONVENIENT

Designed to suit with existing infrastructures, the digital setting saves up in terms of time, space and budget.

SIMPLE OPERATION

Intuitive, "user friendly" tools designed for non-technical users.

PROMETEO - Media and E-learning Robotic Platform Tempestini Organization



The "mind remote communication" is reputed by many the invention which mainly put the infrastructural foundations to the 21st century extraordinary economical and technological development.

The demand for communicating a greater amount of information through different tools simultaneously, represents the current goal to be achieved. In fact, are often available technological tools which only allow for the sharing of their own video and/or audio presence, or the possibility to forward information in various formats, through messaging mechanisms or, when more tools are put together, for the information sending by different modes, but to the user, they still remain not homogeneous and difficult to follow simultaneously. Accordingly to these premises the needs which may turn out, can be related to the capacity to provide the message with a set of "information" the wider possible, and to propose them in a dynamic rather than static way, in order to catch the audience attention so as the "message" will result overall convincing. PROMETEO System by Tempestini, allows by three steps to achieve a compelling effect transforming the scene into an advanced setting that will affect the audience attention.

The interaction will be completed by a real 3D virtual set and by the transposition of information sources in it; video (including live), ppt, etc. A great result with little effort, easily operated, even by users with no experience in broadcasting and video graphics systems.

TMP-V – Mobile Videoconference System



GENERAL DESCRIPTION

The TMP-V equipment distributed together with Aethra, is a high performance and state-of-the-art system in the set top technology.

Ideal for videoconferencing sessions in any employment condition, without the support of external arrays and with all the possibilities of connectivity. Built-in audio and video shooting system maintaining as well flexibility and all the possibilities of connectivity typical for Aethra systems. Furthermore, it is also possible the V35 Connection Interface by further increase of the equipment capability potential.

The incorporated Multipoint Conferencing Unit (MCU), optionally operative, connects up to 5 sites in mixed mode (ISDN e IP) and is provided with the useful configuration Dial-in (Meet Me) and Dial-out by Continuous Presence. Moreover, it allows for PowerPoint® presentation display making the remote cooperation effective.

The Encryption AES Standard, optionally activated, sets secure connections between the two terminals in order to prevent third parties intrusion. Advanced Integration. The integrated MCU unit (optionally operated) connects up to 5 sites with the Continuous Presence function in mixed mode and integrated PowerPoint® presentation.

Video Over IP System for Editing Applications in Broadcasting



Introduction

The describe system provides for encoding and sending on TCP/IP network audio and video channels from satellite or digital terrestrial channels for real time use, as well as the storing of the accessible contents delayed in on-demand mode in progressive type.

VideoLAN installation

The server used for the client interface management will be used by NAS Server as well, currently configured to support up to a maximum expansion of 25 channels at 3MB/S.

Encoders installation

2 racks will be installed with the relative Mpg2 encoders wired with terrestrial or satellite receivers.

EPG Server installation

A EPG server will be installed accessible from browser providing log in to the list of programs available on the network and to the relevant display through browser plug-in. The activities will be centrally logged.

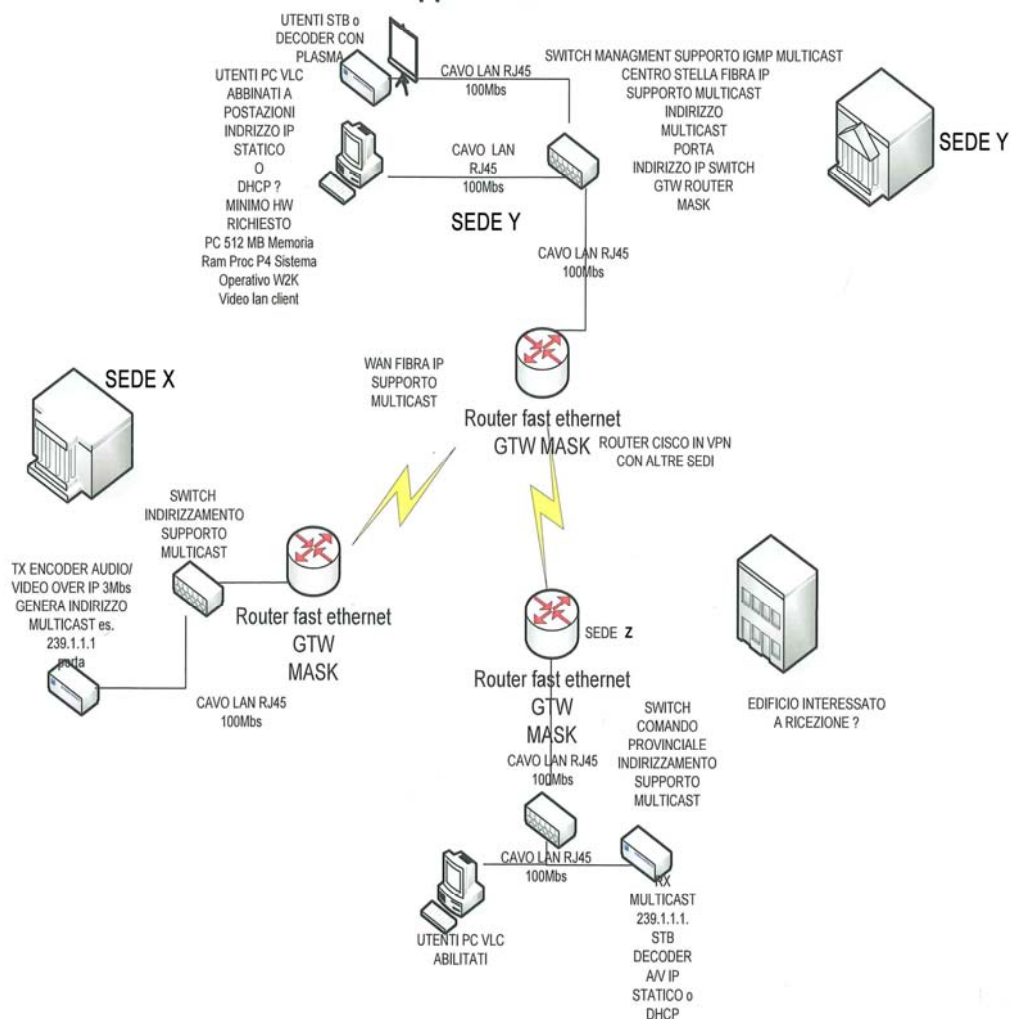
NAS server installation for storage

A network storage will be installed for the video-streams guided storing by the client (using the same server)

Client and Set Top Box Installation

The clients will be configured to access the system via browser; the set top box will be configured as required.

Trasmissione segnale video broadcast su rete IP configurata per supporto Multicast 3 Mbs



Call Center Management System and Phone calls Analysis



VOIP PBX OPERATION

INTRODUCTION

This document describes the main features of the VoIP (IP-PBX) either in terms of basic function related to the protocols and user phone interfaces management, and with regard to the improved services of advanced level which has been made or is designed to achieve.

The structure of the document provides an initial description of the basic functionalities of phone calls management, before moving on to advanced services which have already been implemented or at least partially tested, to end with the development projects for advanced services.

The image provides a logical scheme of the VoIP PBX elements and functions. As follows is shown a pattern which simplify the description of functionality of the system by providing a layered structure for the basic services delivering (phone calls management), and the services and applications delivering. The structure is merely logical being physically separated in a distributed system.

BASIC TELEPHONE SERVICES

The system offers basic services related to typical call handling of PBX and IP-PBX services of new generation; in this paragraph will be introduced the main characteristics but without indicating the standard features and the common ones to the basic telephone systems.

DARIM MV401/MV410 - H.264, WM9 Encoder/Decoder



MV401-H264 and MV410 broadcast A/V encoder/decoder pair are the state-of-the-art broadcast and multimedia content processing devices. They are designed to operate using the Internet or IP over satellite links. The MV401-H264 encoder is tuned up for the newest H.264 video (also known as MPEG4 part 10 or AVC) and MPEG4 AAC audio formats. The MV410 is a dedicated multi-format broadcast quality A/V decoding device used on the receiving end. It is capable of converting compressed video and audio contents obtained from the IP network link to digital or analog signal suitable for studio monitors, VTRs, switches and other professional equipment. Based on solid-state memory embedded design, MV401-H264 and MV410 systems consistently perform A/V encoding, streaming, reception and decoding day after day. The new compression technology allows users to transmit several times more channels over the same network or satellite bandwidth than currently used for MPEG2! This not only saves time and money but also provides greater room for future expansion of channels.

- Embedded, power-on-and-forget technology for dedicated encoding and decoding
- MV401-H264 encodes live H.264 video at full D1 resolution and up to 4 channels of MPEG AAC audio
- MV401-WM9 encodes live Windows Media 9® and Windows Media 9 Professional® video and audio
- Adaptive spatial and temporal video noise reduction filter and de-interlacing hardware
- Low-latency unicast and multicast IP streaming of H.264/AAC encoding unit
- Encoding bitrate can be selected from 0.1 to 16.0 Mbps depending on application
- Dual Gigabit Ethernet LAN ports provide additional performance and redundancy
- Selection of DVB-ASI stream output is available (optional)
- MV410 decodes H.264 video at up to full D1 resolution and multi-channel audio
- Support variety of resolutions, bitrates and frame rates
- Interfaces to most analog and digital A/V equipment

Darim MV211 AV Titler - Streaming server



Transcoder with AD Titler MV211

The advanced and affordable way to insert local commercials and graphics into an incoming ASI or IP feed with or without transcoding

The MV211 adds graphics overlays (logo, titles) and commercials to your incoming IP and ASI feeds then re-compresses them carefully again for downstream IP and ASI playback! Using proprietary MPEG2 compression technology, it maintains images at their original quality, even after titling, because it isolates and compresses only the zones in which titles and logos appear - leaving the surrounding video intact! The MV211 turn-key solution is ideal for local cable service operators. It supports data input and output in the ASI format (BNC) and IP format using two Gigabit Ethernet ports. MV211 provides with ASI and IP input programs selection, ASI and IP simultaneous output option, selected-channel transcoding from MPEG-2 to H.264 and vice versa, as well as insertion a digital signal to ASI to IP feed.

- Universal: Supports both ASI and IP inputs/outputs, MPEG2 and H.264 formats, transcoding feature
- High Quality: Support both SD and Hi) streams with unique title-zone compression MPEG2 technology
- Versatile: Create titles that scroll, crawl and roll, as well as animated logos and dynamic images (clock, weather icons, SMS, etc.)
- Automated: Scheduling program allows users to pre-plan and completely automate the payout
- Economical: Eliminates the need for separate de-mixing, titling and mixing devices
- Scalable: Provides room for future expansion of channels with ease
- Manageable: Can be controlled using web interface and remote desktop
- Upgradable: One-click firmware updates using from the Internet or intranet

Darim V-Tizer - Professional Cards for multi-format capture, streaming and IPTV applications

Turns your PC into a 24/7 Internet Broadcasting Station!



The VT series is a line of affordable professional cards for multi-format capture, streaming and IPTV applications. To realize 24/7 broadcasting Darim Vision empowers you with VT boards to make scheduling, multilayer titling and logo insertion while continuously playing out and switching live/recorded video. Just plug the VT board in your PC and realize professional broadcasting immediately!

The minimum software package includes OS-specific hardware drivers and configuration/preview utility. VT series boards are compatible with any existing video capture/editing software supporting Direct Show or Video for Windows standard capture and codec drivers.

The **V-Tizer** application is the basic software bundled with all capture cards of VT series which provides a convenient and intuitive way to record and stream multimedia files into Windows Media 9 format. The latest V-Tizer software version is always available at Darim Vision ftp site.

INDUSTRIAL SYSTEMS

Video Mobile Tranceiver System



System description

Video transmission system developed for use in emergency situations for all the operational departments of the Fire Brigade.

It consists of a replaceable camera (color, B/W and thermal) it is located on the operator's helmet or elsewhere in the body, to also allow other people, outside the danger area, to perform a scene analysis so to assess possible intervention strategies.

The video captured by the camera, in addition to being seen by the operator through the display unit TMP-VISORE is sent to the receiver unit TMP-RECEIVER STATION real time wireless technology COFDM through TMP-TRANSMITTER transmission system located in a backpack or vest worn by the operator himself (the latter can be integrated into different types of clothing used by the firefighters).

From the receiving unit, the signal can be both transmitted and recorded through a satellite data connection VSat to a server, allowing the viewing to multiple operation rooms or to mobile devices provided with data connection.

System components and Specifications

Wearable unit: transmission camera and system.

Depending on the situation, the operator can replace the different camera types to put on the adjustable elastic support, to suit the head, helmet or wherever you like.

TMP-S CAM Real time Bidirectional Audio and Video Transmission System



- 3G & Wi-Fi mobile Surveillance System -

TMP-S Cam can be carried secretly, placed or mounted on a vehicle.

It can be used for the monitoring of dangerous spots, Crime scenes and crowded areas without wires or complicated installations.

TMP-S Cam has a unique ability: simultaneous transmitting and viewing from different locations, also can receive live broadcast on a PC, Mobile phones and PDAs.

The software is based on Windows platform; easy to install –. Ongoing training and support included.

" FANTASTIC!

REAL TIME WIRELESS, EASY TO USE,
USABLE IN ANY PLACE... THIS IS THE FUTURE OF SURVEILLANCE"

SYSTEM COMPONENTS.

The TMP-S Cam is composed of three parts; transmitter, display and repeater. This components are used to send, manage and view the video streaming THE TRANSMITTER: it is covered and compact so as to be hidden or adequately positioned. It draws the power addressed to the webcam or the digital camera connected to the unit. The transmitters are easy to use by a touch screen interface allowing the user to make changes with the set up quickly and efficiently.

DISPLAY: it is used in the control room or a place where information from transmitters are displayed. The display allows the user to view files saved and stored into the repeater.

REPEATER: it is responsible for the management of all video streams, relaying and filing, as well as for the handling of all the requests for permissions in the system. The repeater is complete with license, use and support.

Cameras for High Speed



The TMP-SPEED CAM operates with all cameras and recorders which have RCA audio and video inputs.

The equipment is indestructible and is guaranteed for life.

None change is provided for the helmet.

The system has been tested at very high speeds.

The tube has steel style and color camera representing the Sony CCD choice of decision and accuracy.

The equipment also features a coverage of the clear lens and built-in for the protection against the chemicals, mud and more.

The camera and the helmet equipment are completely watertight.

The complete system includes all the AV cables for easy attachment to any camera of video, miniaturized microphone with clip, rechargeable battery pack.

Industrial Applications Cameras



Machine Vision

Image Processing for Automated Quality Assurance

KAPPA designs fully automated image processing systems for one hundred per cent inline control and complete integration. In order to achieve this we rely on a maximum amount of in-house development capabilities: state-of-the-art camera technology, network technology, image processing software, lighting technology, optics and mechanical construction from one source. Advantages: Complete service with implementation, final inspection and training, which will lead to quality improvement, increase of productivity and cost reduction.

Process control

If the environment (e.g. cooling agents or steam) makes precise work difficult, process visualization in the machine room provides an important support. You can rely on camera electronics, housing and optics even under adverse environmental conditions. With KAPPA solutions positioning processes and machine adjustments can be monitored from the outside. With a network connection you can operate the system via remote control.

Quality Assurance/ Material Inspection

For quality control and incoming goods inspection KAPPA provides cameras for microscopes, endoscopes, or macrooptics as single-position systems. These camera systems offer precise measuring technology for materials inspection in industrial endoscopy. All sorts of geometrical dimensions can be checked interactively with convenient measuring functions and saved in a database with all image data, measuring results and camera parameters. The ideal equipment for a complete digital protocol according to QA requirements. KAPPA X-ray cameras are perfect for X-ray image processing systems for nondestructive materials testing.

SAVE – Audio Video Bidirectional Transmission



A CEE's experts committee has drafted a document on the development perspectives for the telemedicine in Europe (1990), and agreed the following definition:

Integration, monitoring and the patients management, as well as education of the latter and the staff, using systems which allow ready access to experts advice and information on the patient, regardless of where the patient or the information resides.

According to this definition, telemedicine not only has the aim to assure medical care to patients away from the medical centers, but also the adapting and updating of the Health System with particular attention to the emergency services, of health organization, health education, professional training.

The timing in the diagnosis and in providing the first adequate treatments, are the key issues in order to make an urgent response to an emergency call result a "success".

The emergency 118 call coordinated by the Central Office allows for fast and easy access for situations which are of emergency nature.

Wi-Fi Audio Video Communication System



WiFi Communicator

The first completely mobile, audio-video communication system, specifically created for remote support and distance training.

The WiFi Communicator is a wireless, compact, ergonomic and lightweight video communication system. Specifically developed for remote support and distance training, this system provides maximum mobility. With this system you can have a discussion with another person from a distance and transmit video images of what you are seeing. The system can be used in multiple sectors including:

- Industrial Health and Tele-Health Public Security Aeronautics
- Inspection and Control Architecture and Engineering

The WiFi Communicator is a completely wireless end-to-end solution. The system consists of a headset camera and a miniaturized transmitter. The video images captured by the camera, and the voice of its wearer, are transmitted in real-time to another party's computer.

This user-friendly software interface ensures a dynamic and interactive communication. Its highly effective algorithms make audio and video communication possible even when bandwidth is limited.

The system is compatible with numerous modes of wireless communication including Wi-fi (802.11b), high-speed cellular (30 kbps) and Bluetooth.

INTERACTIVE TOUCH SCREEN SYSTEMS

Interactive White Board



Special Features:

- Ergonomic Pen - Write and control application software easily with the ergonomically designed pens.
- Multi Pen Input Function Is Available - With the special technology design, we enable users to have more interactions with audience on the whiteboard by enabling two pen input on the same surface at the same time.
- Friendly Hot Key Function - With a simple pen tip click on the hot key tray on both side of whiteboard, conducting presentation becomes easier than ever.
- Large Screen - A 77" (195.6 cm) large screen enable you to catch your audience's attention.
- Digital Ink - Write and annotate digital ink over any application, website or video.
- Electromagnetic Technology - Differ from touch or infrared technology, electromagnetic solution provides the most reliable feedback and less calibration effort before ready to use.
- Whiteboard Surface Durability - With a special and lightweight solution the whiteboard surface is optimized for durability.

17" & 19" TMP-Touch Monitors



- Fully Integrated Solution
- Medical 17" - 19"
- Point of Sale 17" - 19"
- Resistive Membrane
- Extreme Reliability

19" Integrated Medical Monitor Specifications

Intelligent Lectern Systems



Lecterns For Meetings and Events

- Ergonomically sound and builds comfort and confidence for its user, whether floor standing or desktop.
- Intelligent: in our definition this includes a large (17" – 24" range) touch display (pen and/or finger touch), supported by [access to] a fast PC with storage interfacing and communications networking options. A lectern is intelligent when it offers viewing of - and interacting with - more information then what the audience can see.
- Reliability, build quality, upgrade ability for an extended economic life at little operational cost. European CE and safety certifications.
- Ease-of-use: presenters must be able to operate the lectern effortlessly. Any change of presentation will be totally seamless to the audience.
- Ease-of-integration: Out-of-the-box functionality for the end-user. From the IT perspective the purchase compares to the acquisition of any new PC. AV departments or Professional System Integrators should not require special training for supporting your installation.
- Choice in features, functionality, and design.

Tailor-made Touch-screens For Science Museum



Touch screen specialists TMP-Touch, are pleased to announce that we now offer a bespoke design and manufacture service where we can produce custom-built touch screens for any size, make and model of Plasma or LCD display or monitor.

Considered to be one of the world's foremost suppliers of interactive touch screen technology, TMP-Touch were recently commissioned to consult, design and manufacture a range of interactive touch screens for the latest 'Science of Survival' exhibition at the London Science Museum.

These 20"-24"-30" 16:9 kiosk style touch screens were purpose built to slip over the front of a range of DELL monitors enabling exhibition visitors to interact and become more involved with the displays and their content simply by touching the screens.

Thru-Glass For LCD



TMP-Touch Thru-Glass technology is a unique way to communicate with your customers, make your window pay. An incredible system that allows people in the street to make choices regarding products and services by simply touching the window, even when the store is closed and the staff have gone home.

Now you can extend your opening hours and let people interact and choose what is of interest to them. Deliver more detailed content, collect customer feedback and enhance your large screen display.

With a close high brightness display rather than a holographic display you can generate the full image quality intended from your content and catch the attention of passers by. The TMP-Touch screen is easy to install.

No need to redesign the layout of your shop front, or cut into the glass window from the street and make choices regarding products and services. The TMP-Touch screen Thru-Glass is produced from the same material used in high demanding applications including ATM's, web phones, medical displays, pay at the pump machines, gaming systems and interactive kiosks, ensuring the technology is protected from moisture, heat and even vandalism.

Thru-Glass for Rear Projection



TMP-Touch Thru-Glass technology is a unique way to communicate with your customers, make your window pay. An incredible system that allows people in the street to make choices regarding products and services by simply touching the window, even when the store is closed and the staff have gone home.

Now you can extend your opening hours and let people interact and choose what is of interest to them. Deliver more detailed content, collect customer feedback and enhance your large screen display.

With a holographic display you can generate high contrast stunning images, which appear to float in the air, and catch the attention of passers by. The TMP-Touch screen is easy to install. No need to redesign the layout of your shop front, or cut into the glass window from the street and make choices regarding products and services.

The TMP-Touch screen Thru-Glass is produced from the same material used in high demanding applications including ATM's, web phones, medical displays, pay at the pump machines.

Thru-Glass Dual Pro



TMP-Touch Dual Pro is a combined projection screen and interactive touch screen foil.

The Dual Pro technology combines a high contrast rear projection screen with a fully integrated interactive touch sensor incorporating a patented projective capacitive technology.

The Dual Pro film and foil combination is intended for use with a standard projector.

This product suits a wide range of applications and is ideal for large format interactive digital signage such as retail shop windows, advertising, promotion and exhibitions. This unique and stylish way to communicate with customers is also very cost effective in creating a large scale information and viewing experience.

Pro-Vu Touch



INFORMATION POINT

Tempestini Group realize that dynamic digital signage and visual display solutions can transform your business. Pro-Vu touch screen technology takes that theory to a whole new level, with a range of frameless large scale interactive touch screens. When inactive the screen looks like any normal clear glass panel and when activated it becomes a high definition rear projection touch screen. The screen is a combination of the LCD film and optically clear interactive foil (capacitance technology). Standard screen sizes 50", 62", and 74" diagonal. The interactive glass information point allows the client to access information by touching the screen surface. Exciting touch screen displays, with instantly updateable messaging capture and engage customers, staff and key audiences. These screens can be cable suspended or floor mounted.

Back To Back Kiosk



The TMP-Touch Kiosk is a fully integrated information point solution - housing our fifth generation Infrared touch technology that boasts rapid tracking speeds and seriously robust components.

Designed for multiple environments the TMP-Touch solution is perfect for Hotels, Conferences, Education, Shopping Malls and Directories. The added interactivity with Digital Signage enables the user to cruise through endless formats of information with ease. Housed in a metallic high security kiosk, this free standing double-sided display can show two different elements of your desired content to two independent users at the same time.

- Two Independent Displays
- Robust & Secure Designs
- Easy To Clean
- Protects Equipment & Cables
- Include Logo's & Themes
- LED Glowing Top Section
- IP65 Rated Infrared Sealin

TMP-Touch Table



- Fully Integrated Solution
- High Brightness NEC Display
- Optical Touch Screen Technology
- High Tracking Speed for Annotation
- Multitouch Capable
- In-Built Rack Space for PC / DVD
- Security Door as Standard
- Fully Mobile with Lock Down Wheels

TMP-Touch Table Specifications

- Excellent viewing angle and high contrast image
- Wide range of sizes available, currently 32" 40" 52"
- Integrated cooling system
- Optional in-built speakers
- Integrated housing for PC/Laptop
- Interactivity even works with a gloved hand
- Single cable for power and connection to PC
- Suitable for use in high ambient light conditions
- Easy to clean, unaffected by harsh cleaning fluids
- LCD display life 40,000 hours

Multi-touch Displays



Multi-Touch engages your viewers...

Going beyond traditional on-air scripted communication, multi-touch allows one or more persons to intuitively manipulate onscreen content by interacting directly with the display. Multi-touch empowers the talent to engage the audience by enabling effortless semi-scripted and ad hoc presentation and analysis.

Multi-Touch Broadcast Wall™

This ground-breaking Broadcast Wall™ is simply the most advanced multi-touch system in the world, creating new opportunities for collaboration, visual and tactile image manipulation, and breathtaking graphic representation. The Broadcast Wall is a complete turn-key system which can easily integrate with existing broadcast graphics applications, or support the development and deployment of brand new multi-touch enabled applications.

Built on the patent-pending optics, hardware and software, the Broadcast Wall delivers unmatched performance and ease of use and can be installed in just a few hours. The Wall's display measures 81" x 48" inches, and comfortably accommodates several simultaneous users. Multiple walls can be tiled to reach extended lengths and custom sizes are available on request. The Wall is specially design to operating under studio lighting conditions. The output can be also be mirrored to other displays or directly to air. The Wall can also be configured to support multiple live SD and/or HD video inputs on request.

All Weather Enclosure



The TMP-Touch All Weather Enclosure delivers a high pixel density, high brightness hermetically sealed interactive unit that allows clear, detailed graphics to be touched in the urban environment.

These units have been purposely designed for the rigours of the underground and rail environment. They are also ideally suited for other transport applications where environmental protection from the elements and physical security is a must. The profile of the display has been designed for elegance and slimness. A key factor in the design is that all corners are rounded to minimize collision injury.

The front fascia is made from a toughened and laminated glass which will stand the impact of a bottle or brick.

- Fifth Gen. Infrared Touch
- Easy Maintenance
- Ultra Bright Version Available
- Robust & Secure Designs
- Easy To Clean
- Protects Equipment & Cables
- Include Logo's & Themes
- IP65 Rated Weatherproofing

Interactive Branded Enclosures



TMP-Touch launches a range of interactive enclosures that lets you create an individual housing for your interactive Plasma or LCD displays that can include your company logo, colors and interior design theme. It puts your company's brand in the spotlight and helps your displays to blend in with your interior style. No matter what shape or color the brief is we can consult from scratch the full solution.

- Robust & Secure Designs
- Easy To Clean
- Protects Equipment & Cables
- Include Logo's & Themes
- IP65 Rated Weatherproofing

Each style will be designed with robust, high quality materials. A robust model with a metal housing and safety glass can protect the displays against vandalism. All cables are concealed inside the enclosure.

When maintenance or service needs to be performed, you can simply open and go to work. In those outdoor installation projects we can IP65 rate our components for a complete weatherproof solution that will protect the IR technology.

All-In-One Touch LCD System



The new All-In-One touch LCD system from TMP-Touch features a high quality LCD display with an integrated fully fitted Optical Sensing touch screen.

The unit has been aimed at digital signage and public display sectors as a self contained solution bringing many benefits to both the system integrator and end user alike.

With a high quality eye catching display, the public can easily navigate their way through Windows OS and multimedia content in a host of applications and installations.

- Sizes available from 32" to 82"
- High quality Samsung TFT display
- Excellent viewing angle
- Optical Sensing touch technology
- Multitouch Capable
- Built in touch drivers HID compliant
- High accuracy & limited drift
- Easily mount in fixed installations

NEC Integrated



The TMP-Touch NEC Integrated combines our Optical Sensing touch technology with the latest NEC 20 Series professional LCD's.

Fully integrated, this solution has no brackets or detachable parts therefore keeping with the overall look and feel of the display. Through such a close marriage of the components the Parallax has been reduced enabling a more accurate, near pin point, finger to cursor response.

Once calibrated, it does not require any adjustment and any object can be used as a stylus; including a gloved finger.

Infrared Overlays



- Maintenance and calibration free
- High Resolution
- Water and dust resistant
- Vandal resistant construction
- Free of interface
- Extreme reliability
- High clarity
- High environmental adaptability
- Long life expectancy
- Minimal error in operation
- Custom and bespoke sizes

The fifth generation Infrared TMP-Touch technology enhances Infrared's traditional advantages such as high clarity, maintenance free, exceptional ruggedness, and new breakthrough with ability to work in high ambient light environments.

Optical Sensing Overlays



- USB plug & play
- Four point calibration
- Fast response rate and tracking
- Light touch no pressure required
- 100% visibility
- Over 4 million touch points
- Multitouch capable

Applications are limitless, ranging from boardroom or conference room collaboration to public information kiosks.

Also, because the touch frame is a lightweight slim-fit design, in keeping with the overall look and feel of your flat panel display - you barely notice it.

103" Infrared Overlay



- Broadcast
- News Stations
- Events
- Wayfinders
- Match Analysis

St. Pancras International Railway Station installation



The newly opened 'St Pancras International' railway station was recently launched as a gateway to Europe after this unique London landmark and home of Eurostar reopened after an £800m restoration.

Incorporating the latest in advanced technology this important new epicentre of travel was to be presented as a 'silent station' where Kiosks and Wayfinder booths were used to present key information and guidance to visitors and passengers without the need for an outdated, intrusive and often incomprehensible tannoy system.

Integration partners 'Siemens' provided 16 stand alone kiosks with a sophisticated content and back-end digital signage platform from AMX/inspired signage. Easy access to information was created using IP65 rated Infrared touch screen technology from TMP-Touch.

The result was a series of stylish kiosks designed to work in unsupervised areas, both indoors and outdoors, providing key travel and tourist information, at the touch of a finger, 24 hours a day.

VIDEO CONFERENCE AND STREAMING

Multimedia Video Conferencing System



INTRODUCTION

Desktop Conferencing System has become immensely popular in substituting real meetings and conferences, as time cannot be compromised in today world. Inevitably it is not easy to simply replace these vital meetings. Thus a commendable, reliable and an efficient system is required to replace these meetings and conferences. This is where Multimedia Conferencing System version 6.0 comes in.

Our Ability, Your Advantages

MVCS is a full-fledged versatile multipoint video conferencing system that can seamlessly integrate into the current network architecture of an organization. The best part of MVCS is that it was designed to fit into any existing LAN and WAN environment. The key point that has always been stressed throughout the development is flexibility.

Realizing the amount of money invested in setting up a networked environment, changing the whole or part of the architecture for a product is not acceptable, let alone economical. MVCS was developed with this in mind. Another major advantage of MCS is that it is software based and uses non-proprietary hardware. This means your existing multimedia PC can probably be an MVCS client, as long as it meets the basic requirements needed to run MVCS.

Video Conferencing & Telepresence



High-Definition H.264 Encoder & Decoder

TMP10000BA & TMP10001BA

Video Conferencing And Telepresence In HD

Imagine a world in which you communicate with peers, colleagues, friends or family, in which you interact with your lecturers, in which you are assisted by a service person at a ticket sales kiosk, and in which surgeons are aided by peers hundreds of miles away ... all this through life-like video with full 1920x1080 or 1280x720 resolution. It is not difficult to imagine how this fundamentally changes and enhances our daily lives.

We Don't Make It, But We Help Make It Better

These video codecs make possible these systems to:

- Handle video at 1920x1080 and 1280x720 resolutions,
- Utilize available bandwidth efficiently,
- Perform at near theoretical quality versus bit rate, and
- Virtually eliminate any noticeable delay associated with video encoders and decoders.

The encoder efficiency results in bit rates low enough to allow video at 720p and 1080p resolutions to be carried over broadband connections for real-time communications.

TMP-223 Radio e GSM su IP



Over IP Radio adapter

- Public Security and Armed Forces
- Facilities and Energy Companies
- Airports and Railways Companies
- Medical Emergency
- Civil Protection

The Roip TMP-223 radio adapter is a reliable and secure interface to control two remote radios via IP connection.

The adapter can be managed by an operation center VoIP by a software console for Windows C-Soft or by multi-channel IP console Roip series; The TMP-223 module programming is made through its web interface.

The TMP-223 connects to the CSoft console with any LAN/WAN available: just connect a standard cable 10/100 to the unit and assign an IP address. Can also be used connections with wireless segments. The TMP-223 can operate in three different modes.

Local Mode – used to connect one or two radio lines directly to TMP-223, using one of the specific connectors DB25 available..

Console Mode – Used to connect tone-console to the TMP-223 (T.R.C.). The TMP-223 decodes the control tones of the console and translates them into traffic.

Ethernet and viceversa. Supervisor and Crossmute functions are supported. See picture 1.

Tone Mode – used to connect the TMP-223 adapter to a radio that supports the control thug tones. The TMP- 223 translates the signal from Ethernet into control tones and viceversa.

This mode allows the use of a parallel analog console for the local control.

Interoperability – Crosspatch mode allows to establish an interconnection between two or more radio channels, that is , temporarily put into communication users of different radio systems which are normally separated.

IMS Video Transcoder Solutions - Mobile TV & Communications



Multi-Channel Video Transcoding, Transrating & Transsizing

TMP40603DA & TMP40603DB

Seamless Mobile Video Communications

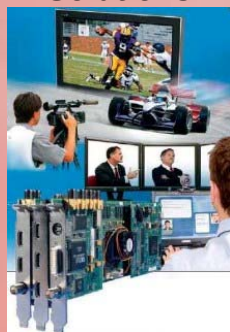
Imagine a world in which you are able to watch your favorite TV programs any time, anywhere, communicate through video with your peers, colleagues, friends or family, or share video clips with them, via your mobile phone, portable media player or laptop computer, on the fly, via a broadband wireless subscriber connection. Imagine doing all this seamlessly, without having to worry about incompatible video formats, different screen resolutions or bit rates that different devices are limited to. It is not difficult to imagine how such communications infrastructure fundamentally changes and enhances our daily lives.

We Don't Make It, But We Help Make It Better

These video codecs make possible these systems to:

- Convert between video formats, bit rates and screen resolutions on the fly,
- Deliver the highest possible channel densities, and
- Deliver the lowest possible power dissipation per channel.

Two-Way Video Communications Solutions - Low Delay Live Broadcast Solutions



Aspen Development Kit

For TMP10K & TMP20K H.264 HD Codec Chipsets

Complete WW10K and WW20K Chipset Development Kit

Aspen is a complete development kit for the TMP10K and TMP20K H.264 codec chipsets for HD video conferencing and broadcast camera head-end applications, respectively. Aspen gives developers access to the complete range of functionality of these chipsets. Its fully modular design provides designers with the ability to rapid prototype with different video I/O and host configurations.

Highly Modular Design

Aspen consists of four mezzanine modules and a main board.

The four mezzanine modules consist of:

- Video input mezzanine module.
- Video output mezzanine module.
- Decoder mezzanine module.
- Embedded host mezzanine module.

AV Codec Modular Solutions Vertical Embedded Applications

SLL Technology Enabled



Super Low Latency H.264 Micro-Mezzanine Modules TMP20BACM & TMP20BADM

Module Overview

The TMP20BACM and TMP20BADM are micro-mezzanine modules for audio and video encoding and decoding, respectively. These modules support the H.264 / MPEG-4 AVC video coding standard for HD video and Dolby® Digital Stereo® as well as PCM audio coding.

The TMP20BACM encoder module encodes 1920x1088 or 1280x720 HD video in H.264 format. Stereo audio input can be encoded in either Dolby® Digital Stereo® or PCM format. The MPEG-2 Transport Stream output is compliant with the ISO/IEC 13818-1 standard. DVB support includes 188 and 204 byte packet formats and DVB service information in compliance with ETSI EN 300 468. The 8-bit TS interface on the encoder and the decoder modules allows for either DVB-ASI or DVB-SPI I/O. The TMP20BADM module de-multiplexes and decodes the encoded audio and video streams for playback.

Super Low Latency Technology™ or SLL Technology™ guarantees sub frame-rate encode-decode latencies, the lowest in the industry.

Other interfaces present on the modules include a SPI and a UART interface. These can be used for an external host processor to control, configure and monitor the modules.

