



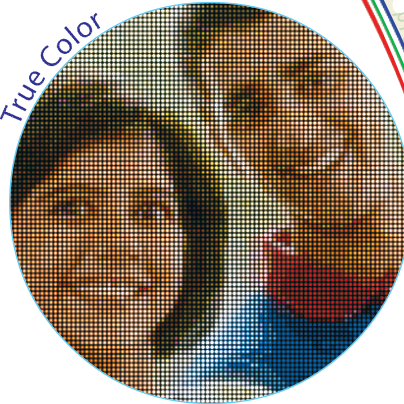
To Provide Insight For Enhancing Wealth



A PRODUCT DEVELOPMENT COMPANY

Conceive,
Develop,
Manufacture
Embedded Systems
&
Software

True Color



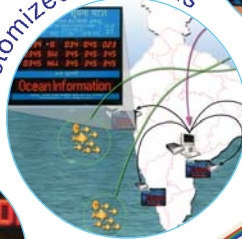
Animation Graphics



TV Game Shows



Customized Solutions



Multi Lingual



Score Boards



Day Visible



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LED Display Systems

LED Display systems are used to transfer visual information for Mass Communication. Information like Flash News ,ONLINE Production status, Arrivals & Departures, Graphical Presentation, Animated messages and Pictures can be displayed for effective and immediate understanding.

Hardware

- ◆ Motorola 68k (32 bit Processor) with various peripherals as Central Processing Unit.
- ◆ LED modules contains LEDs arranged in an array with required drivers and data latches for glowing LEDs based on the information.
- ◆ Pitch of the LEDs (distance between the LEDs) varies based on the intensity and the viewing distance .
- ◆ No. of LED module cards arranged to realize the required Size of the DISPLAY SYSTEM.
- ◆ Various Drivers and sub-drivers are used for driving LEDs based on the System size and intensity.
- ◆ Required Hardware interface for Data receiving.

Classification of display systems

- ◆ Display Systems for Day visible and night visible
- ◆ Single, Multi colour and true colour
- ◆ Indoor and Out door systems

Interfaces

- ◆ GPS and GSM interface
- ◆ Modem interface for obtaining the data from remote place and displaying the same
- ◆ Computer interface
- ◆ PLC interface to display output parameters of PLCs
- ◆ Pager interface
- ◆ Data communication exchange interface for multiple display systems connectivity etc.

Applications

- ◆ Production status, statistics and other information ON LINE
- ◆ Urgent ON LINE Messages for Mass Communication
- ◆ Warning Messages in critical areas like mass production and operating yards
- ◆ Operation Precautions Messages
- ◆ Flight, Train & Bus Departure and Arrival Information
- ◆ Weather Information
- ◆ Electronic Score Boards
- ◆ Animations & Pictures

Multi Lingual Information

- ◆ English with one/more of the regional language



Display System for Ocean Status

- ◆ Information regarding the Potential Fishing Zones in the Ocean
- ◆ Data and Messages sent from central server (Hyderabad)
- ◆ Seven segment Modules and SMD LED Matrix
- ◆ Messages displayed in local regional language for better understanding
- ◆ Sea forecast display
- ◆ Warning messages in local languages for Fishermen
- ◆ Voice announcement facility
- ◆ GSM and Dial-up communication
- ◆ Automatic updation of data on the display board
- ◆ More than 40 boards installed at prominent coastal areas in India

Display Systems for Indian Railways

Approved by RDSO (Specification No. RDSO/SPN/TC/61/2006)

- Train arrival and Departure information display in Single & Multi line
- Server, Data Exchange and Computer interface with application s/w
- Multi drop networking to connect multiple boards
- Information in all Regional Languages
- Other Displys like Master Slave Clocks, Couch Guidance etc.
- Integrated IVRS, Platform Announcement, LCD TV Display



Token Displays for Passenger Reservation Counters

- Reservation token number with counter number
- Window display at counter with running token number.
- Skipped Token numbers display system
- Server, Data Exchange and Computer with application s/w interface
- Multi drop networking
- Multiple boards connectivity



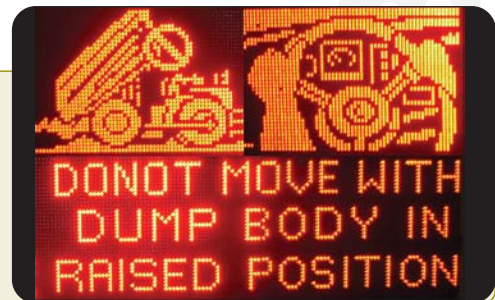
GPS & GSM Based Display system

- Train/Bus service expected arrival information
- GPS & GSM interface
- Train/Bus position read through GPS
- DATA communication from central server through GSM
- Expected arrival time from coming stations through GSM



Day Visible Display System

- Information of Production status and Operating Precaution Messages
- 3nos of 5mm high intensity LEDs (cluster) used for one Pixel
- 14 LED, 7LED & 3 LED Clusters for a pixel
- Day visible system for Single, Multi Color
- Data exchange interface & LAN connectivity
- Multiple boards connected through out of the yard



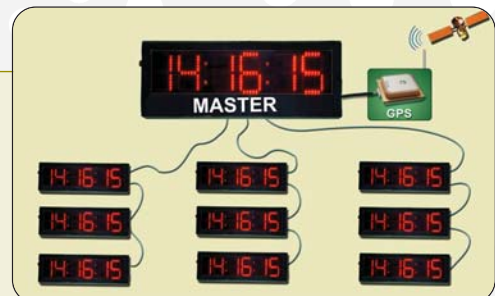
Display Systems for Sports Stadia

- To display the live sports events for indoor games
- Display of Team Names and corresponding Scores
- Real Time Clock facility
- Count down Time display for Time Out and remaining time
- Message of Winner Team after every Set
- Computer Interface with Application Software
- Video Display Boards for Outdoor Stadiums



GPS Based Master Slave Clocks

- GPS Time Synchronization of the Master Clock
- Time setting of Slaves at a defined intervals for uniformity
- Multiple Slaves connected in a wide area
- Multidrop network connectivity





Display System for TV Programs (Quiz)

- ◆ Software and Hardware to handle LIVE TV Game shows with complete user-defined data, interactive results, questions&answers
- ◆ Customised LED Display Boards for the game shows developed and produced Indigenously
- ◆ Import substitute
- ◆ **Global Presence:** Solar Film Inc OY- **Finland**, Grupa Televisa-**Mexico**, Fremantle International-**Turkey**, Natseven TV Sdn Bhd-**Malaysia**, Sveriges Television-**Sweden**, Pearson Television Asia-**Indonesia**, Venevision - **Venezuela**, Software Engineering Sinha Will - **Switzerland**



Display system supplied to Hospitals

- ◆ Information with the user defined fields, like, Doctors availability etc.
- ◆ Information in local language
- ◆ Computer with Application s/w interface



Display systems for Advertisement

- ◆ Single,Multi,True Color display system - Day & Night visible
- ◆ OFF LINE Animated Information
- ◆ ON LINE messages through computer / key board
- ◆ Facility to upload OFF-LINE Animated information
- ◆ Single & Multi Color Clusters for Day Visible
- ◆ Modular Design to achieve customer require sizes
- ◆ Multi windows to display different messages at a time
- ◆ Multi Lingual
- ◆ Auto Time & Temperature & Auto ON/OFF



MULTI Shades



Multi Windows



Multi Lingual



Animated Graphics

CLIENTS

International

- ◆ Fremantle Media
- ◆ Pearson Television (U.K)
- ◆ HNC Malaysia (Malaysia)
- ◆ Sveriges Television (Sweden)

National

- ◆ Indian Railways
- ◆ TISCO (Tata Iron & Steel Company)
- ◆ INCOIS (Indian National Center For Ocean Information Services)
- ◆ Ford India Pvt. Ltd.,
- ◆ NALCO (National Aluminium Company)
- ◆ National Thermal Power Corporation
- ◆ Hero Honda India Ltd.,



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Ministry of
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