



**WWW.SIM2.COM**

**SIM2 MULTIMEDIA S.p.A.**

Viale Lino Zanussi, 11  
33170 Pordenone - Italy  
Tel. +39.0434.383234  
Telefax +39.0434.383260  
E-mail: info@sim2.it  
Web site: www.sim2.it

**UK:**

**SIM2 UK LTD**

Steinway House  
Worth Farm, Little Horsted  
Nr. Uckfield  
East Sussex TN22 5TT  
Tel. +44.01825.750850  
Telefax +44.01825.750851  
Web site: www.sim2.co.uk

**USA:**

**SIM2 SELECO USA INC.**

10108 USA Today Way  
Miramar, FL 33025  
Tel. +1.954.442.2999  
Telefax +1.954.442.2998  
E-mail: sales@sim2usa.com  
Web site: www.sim2usa.com

**Germania:**

**SIM2 DEUTSCHLAND GmbH**

Gewerbepark, 17  
D - 35606 Solms  
Tel. +49.0800.8007462  
Telefax +49.0800.9007462  
E-mail: info.de@sim2.it  
Web site: www.sim2.com

SIM2 Multimedia is certified



Due to constant product development, specifications and design might be subject to change without notice. GC Catalog WORLD - June 2004

# SIM2 *Grand Cinema* Line



# SIM2 Multimedia Contents

About SIM2 Multimedia

2



About DLP technology

6



Introduction to the  
Grand Cinema series

8



The Grand Cinema HT series  
DLP™-based front projectors

14



The Grand Cinema RTX series  
DLP™-based rear projectors

28



The Technical Specifications

35



# S I M 2 Multimedia

Innovation in  
home cinema



SIM2 Multimedia mission is to offer solution for home cinema applications: in other words, truly sensational rear (45" and 55" diagonal) and front projection products, capable of outputting a picture up to 150-250" diagonal.

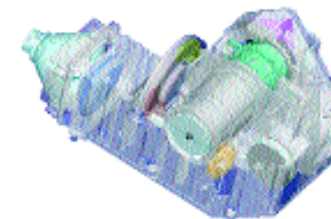
The company provides one of the industry's most comprehensive line of video entertainment projectors and high-end professional display that have a common denominator: a cinematographic quality for future-proof products.

SIM2 products are designed for today's and future requirements and incorporate all of those exceptional performances that have created the SIM2 myth.

In the home theatre market, SIM2 Multimedia is today's synonymous of innovation and quality.

The company provides one of the industry's most comprehensive line of video entertainment projectors and high-end professional displays.

The marketing policies of the company are world-oriented with a direct presence through the headquarter/ subsidiary in Italy, USA, UK and Germany and in over 45 countries world-wide through partnerships with qualified distributors. SIM2 Multimedia's headquarters are located in Pordenone, Italy.



## Research & Development

SIM2 has gained in reputation thanks to its strong commitment on innovation and great passion for outstanding image quality. Indeed, SIM2 Multimedia invests over 20% of its human resources and over 10% of total turnover in R&D activities, assuring constant innovation of products. SIM2 Research & Development team's achievements:

1. an innovative "alpha path" light engine for a revolutionary product series.
2. the best signal processing device coupled with the most sophisticated deinterlacer;
3. a wide selection of connections to allow interface with today's and future sources; in particular, the latest HDMI" (High Definition Multimedia Interface) input that safely processes uncompressed signals, making illegal reproductions impossible to accomplish; HDMI" doesn't require any analog/digital conversion - and/or vice versa - and controls simultaneously up to 8 audio channels with a quality higher than the one offered by normal CDs.
4. the use of fibre optics cable. SIM2 is the only consumer manufacturer to use an optical link between a remote and external video processing unit (DigiOptic™ Image Processor) and the projector for a loss-free and interference-free signal.



## The distribution

A capillary distribution in over 45 countries world-wide, coupled with an excellent customer service, guarantees absolute serenity in time.

# home is where the theater is



It has often been said, "A man's home is his castle". With that adage in mind, it's no surprise that more and more people are choosing to enjoy their favorite movies, sporting events and TV programs in the comfort of their own private theatre. Whether you're an avid host or prefer quiet evenings at home, a personal theatre allows you to express your style in entertainment.

## a name you can trust

On the basis of more than 10 years of experience in cutting edge innovation, SIM2 Multimedia, is a world-leading manufacturer dedicated to bringing a cinema-quality picture into your home. Investing in a SIM2's projector you can be confident that it will deliver on sharpness, brightness and color fidelity.

## sit back, relax and enjoy

SIM2 Multimedia design engineers pay particular attention to ensure that their projectors are an attractive addition to your home. Your family and friends will immediately notice the elegant design, which is certain to complement your décor. Furthermore, all SIM2's projectors offer relaxed ease-of-use via remote control and our comprehensive warranties ensure peace of mind.

## if you're like most people, you want to make the most of your leisure time

A home theatre creates an exclusive domain within your living space, where the reality of your surroundings is suspended and you're immersed in a total entertainment experience. Imagine enjoying a great football game or movie in the intimate surroundings of friends and family with cinema-quality projection and sound. A SIM2 projector is an essential part of this experience.



## your attitude toward entertainment is as unique as your personality

Regardless of the size of your home, you may have concerns about how a personal theatre will transform your living space. Retractable screens and ceiling or bookshelf mounted projectors allow you to convert a multi-purpose living area into a theatre at your discretion. You may also choose to design a dedicated home theatre room with a wall-mounted screen. Whatever the case, creating a theatre that complements the personality of your home should be a fulfilling experience; the possibilities are as endless as your imagination.

# D L P <sup>T M</sup> technology



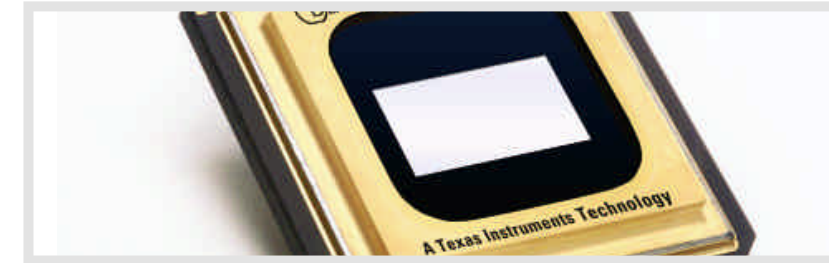
Digital Light Processing (DLP™) is a new way to project and display video signals and is based on the Digital Micromirror Device (DMD™) developed by Texas Instruments. The inherent digital nature of DLP™ enables noise-free, precise image quality with digital gray scale and very good color reproduction. Finally, close spacing of the micromirrors causes video images to be projected as seamless pictures with higher perceived resolution.

## How it works

A DMD™ can be described simply as a semiconductor light switch. Thousands of tiny, square, 16 x 16µm mirrors, fabricated on hinges atop a static random access memory (SRAM) make up a DMD™. Each mirror is capable of switching a pixel of light. The hinges allow the mirrors to tilt between two states: “on” or “off”.

## Dark-Metal technology

In the new DMD generation, a light-eating "dark metal" coat is applied to the interior of each chip, preventing stray light from traveling to screen when mirrors are switched off. Now, photons go only where they're wanted - and contrast ratios are jumping from 800:1 to >1500:1. The HT500 LINK projector sports this incredible new DMD chip.



## One-Chip System

White light passes through a color wheel filter, causing red, green and blue light to be shone in sequence on the surface of the DMD. The color wheel spins at 60 Hz to give 180 color fields per second (256 shades for each of the primary colors, or 2563 - 16.7 million - possible colors that can be generated). The switching of the mirrors, and the proportion of time they are 'on' or 'off' is coordinated according to the color shining on them. The human visual system integrates the sequential color and sees a full-color image. A white segment may be added to increase brightness efficiency of the system.

## Three-Chip System

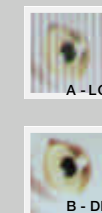
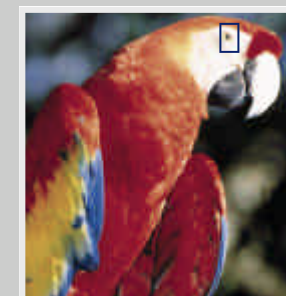
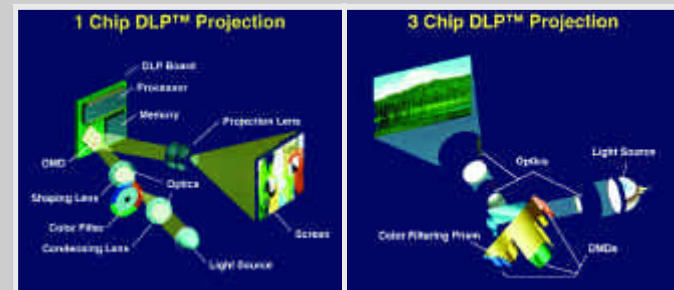
DLP™ technology-enabled projectors for very high image quality or high brightness applications such as cinema and large venue displays rely on a 3-DMD-chip configuration to produce stunning images, whether moving or still. In a 3-chip system, the white light generated by the lamp passes through a prism that divides it into red, green and blue. Each DMD chip is dedicated to one of these three colors; the colored light that the micromirrors reflect is then combined and passed through the projection lens to form an image.

### Advantages in Home Entertainment

**Sharper image:** all digital technology recreated the source with maximum fidelity so you may enjoy clear, sharp pictures.

**Knockout color:** high contrast and better accuracy mean brilliant colors and richer blacks.

**Slim design:** lightweight semiconductor technology allows for thin and elegant TVs and projectors.



### DLP™ vs. LCD

The digitalized photograph of a parrot was used to demonstrate the seamless, film like DLP™ picture advantage over an (A) LCD projected image. A three-panel polysilicon VGA resolution LCD projector (A) and a one chip VGA resolution DLP™ projector (B) both project the photograph of a parrot. Both the LCD and DLP™ photos were taken under the same conditions, with each projector being optimised for focus, brightness, and color. DLP™ offers superior picture quality because the DMD mirror pixels are separated by only 1 µ thus eliminating pixelation.

# GRAND CINEMA

s e r i e s



### key points

- Designed specifically for home theater
- Based on Texas Instruments' DLP™ technology
- Built-in DCDi™ by Faroudja
- Lens shift and digital keystone adjustment
- Long Throw Ratio zoom lens
- HDMI™ and DVI inputs
- Improved software functions

Grand Cinema Line - Cutting-edge technology combined with elegance and style; brought to you by the masters in home cinema projection: SIM2!

The SIM2 Grand Cinema Line has been created to endorse the strategic positioning of SIM2 within the home theater marketplace and to fulfil the needs of a discerning customer seeking to enjoy a truly high end "ultimate home cinema experience", whilst being backed up with reliable product support from qualified staff.

All Grand Cinema products have been designed and manufactured using the most advanced cutting edge technology available to the current marketplace; the SIM2 Research and Development team working closely with new technologies to develop the ultimate image quality.

we have changed the  
rules of the game

Grand Cinema offers a hands on approach to cinema viewing. An extremely sophisticated and versatile firmware and software, gives the customer the enjoyment of self customizing a fully adjustable user interface, allowing the viewer to tailor the picture to their exacting requirements.

Alternatively, this fully customizable interface offers flexibility to professional installers and lifestylers, allowing them to set-up the projector to deliver the best image quality for the living conditions.

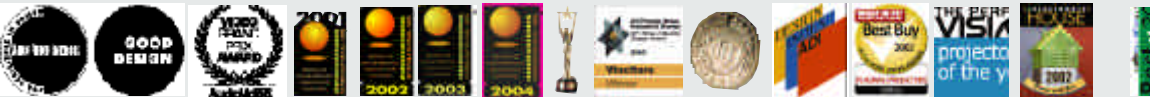
The recent introduction of new projectors to the Grand Cinema range, together with the introduction of HDMI" digital Input, places SIM2 firmly at the forefront of the technology revolution.



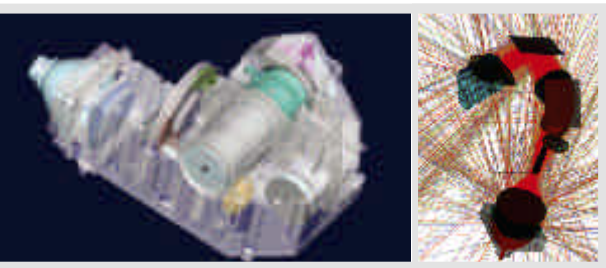
The SIM2 Grand Cinema range is the only projector line that features HDMI" Input across the entire range. SIM2 is the only company in the home theater industry Worldwide to currently offer this to the customer.



The Grand Cinema line has received a plethora of prestigious international awards for excellence in its category, aesthetics, innovation, etc.



SIM2's proprietary engine and optical path



Since the introduction of the Grand Cinema line to the World market in 2000, the SIM2 Research & Development team have been praised and acknowledged for their outstanding achievements, no exception being the revolutionary “alpha path” light engine.

SIM2’s optical engineers have once again achieved an extraordinary goal after months of research and development activities, resulting in a new optical engine, which has an absolutely perfect light path, delivering outstanding colors and reaching very high and true contrast ratios.

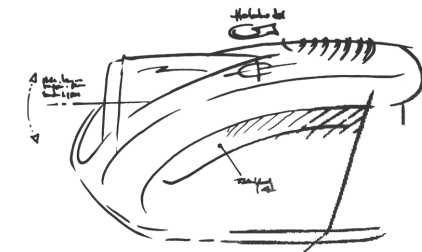
The coupling of this revolutionary new light engine with the newly introduced HDMI" Input has brought about a truly exceptional picture quality that has never before been experience!

Last, new electronics and software functions are now featuring the Grand Cinema Line such as a new Formatter Board that is integrated with the latest Faroudja Deinterlacer. This hardware and software new implementation, together with others, allow functions such as Video Noise Reduction, Flesh Tone Correction, Customized Adjustment of all parameters, Overscan of 33 different positions, Auto POWER ON selectable and many others.



The SIM2 GRAND CINEMA HT series has been completely designed by SIM2 specifically for home theater and home entertainment applications with a specific criteria in mind: the best performance without compromise for a product that fulfils the requirements of the most demanding home theater enthusiast.

Grand Cinema HT



In the year 2000, SIM2 has revolutionized the home theater market with the introduction of the SIM2 GRAND CINEMA HT series: the new projector line based on Digital Micromirror Device™ by Texas Instruments.





# Grand Cinema HT500 LINK

optical freedom



## key points

- ✂ 3-chip Dark Metal DMD chip by Texas Instruments with light-eating coating
- ✂ 720p High Definition native resolution (1280x720 pixels)
- ✂ External DigiOptic™ Image processor with 12 inputs
- ✂ Fiber optics connection up to 500 m (1600 ft)
- ✂ Very high contrast ratio: >3800:1 & brightness
- ✂ RGB Enhanced Color Architecture
- ✂ Low noise operation and no rainbow effect
- ✂ HDMI™-HDCP input
- ✂ Choice of 5 high quality zoom lenses
- ✂ Screen size up to 9 meters (>29 ft)
- ✂ New software: customizable inputs & memory

The most technically advanced product to be added to the Grand Cinema line and arguably the most superior, is the HT500LINK, SIM2's flagship projector. At the core of this products amazing performance is brightness, contrast and the absence of artefacts that it can deliver on screen. The projector has been built to deliver a "real" home cinema experience, delivering a perfect image where other projectors fall foul to the constraints of a screens dimensions and only before seen at commercial cinemas.

The HT500 LINK is equipped with three high definition DMD chips by Texas Instruments and a 2nd generation remote DigiOptic™ Image Processor (DOIP) to provide the new HT500 LINK a great installation flexibility and a wide choice of inputs. This advanced and unique technical solution, already successfully adopted on two other SIM2 products, the HT300 LINK and the RTXs, provides quality connections to video sources that can run up to 500 meters (1600 ft).

## Why introduce a 3 CHIP projector to the Grand Cinema Line?

In the year 2000, SIM2 re-launched DLP™ home cinema projection with the introduction of the Grand Cinema HT200. The HT200 projector was a pioneer of this time and the first of its kind to harness DLP™ technology successfully within a home theater projector . The HT200 was capable of achieving an unprecedented image quality never before possible from a single chip device.

As the demand for larger home cinema screen grows - SIM2 engineers realized that the existing single chip technology was not enough. To achieve the large screen cinematic experience 3 chip projection technology had to be adopted. With one DMD for each Red, Green & Blue



primary color this enables SIM2 engineers to produce an image of outstanding definition, a color palette so rich that you would think the picture is real, a image that is silky smooth and free of artefacts normally associated with single chip DLP™ technology-based projectors. The HT500 LINK features three Texas Instruments HD2 chipsets with a ATSC High Definition resolution of 1280 x 720 and a mirror tilting angle of 12° resulting in a contrast ratio of over >3800:1 for that true cinematic experience.



## Positioning the DigiOptic™ Image Processor

The ideal location for the DigiOptic™ Image Processor is on a cabinet shelf or on a rack (dimensions compatible with a standard 19" rack).

Make sure that the support surface is stable and that the unit has sufficient space around it for ventilation purposes (at least 3 cm).





To answer the problem of connecting a wide range of multimedia products such as DVD players, Computers, Satellite and Personal Video recorders, SIM2 developed the DigiOptic™ Image Processor.

Featuring a single fiber optic cable delivering High Speed Laser Light to the projector means one connection instead of many. The rack mount DOIP can be installed next to the customer's equipment and up to 12 individual products can be connected at any one time including HDMI™ based products. This concept eases the problems with installation, no issues with interference or losses from long cable runs, electrical interference from telecommunications, power cables and lighting dimmers etc..

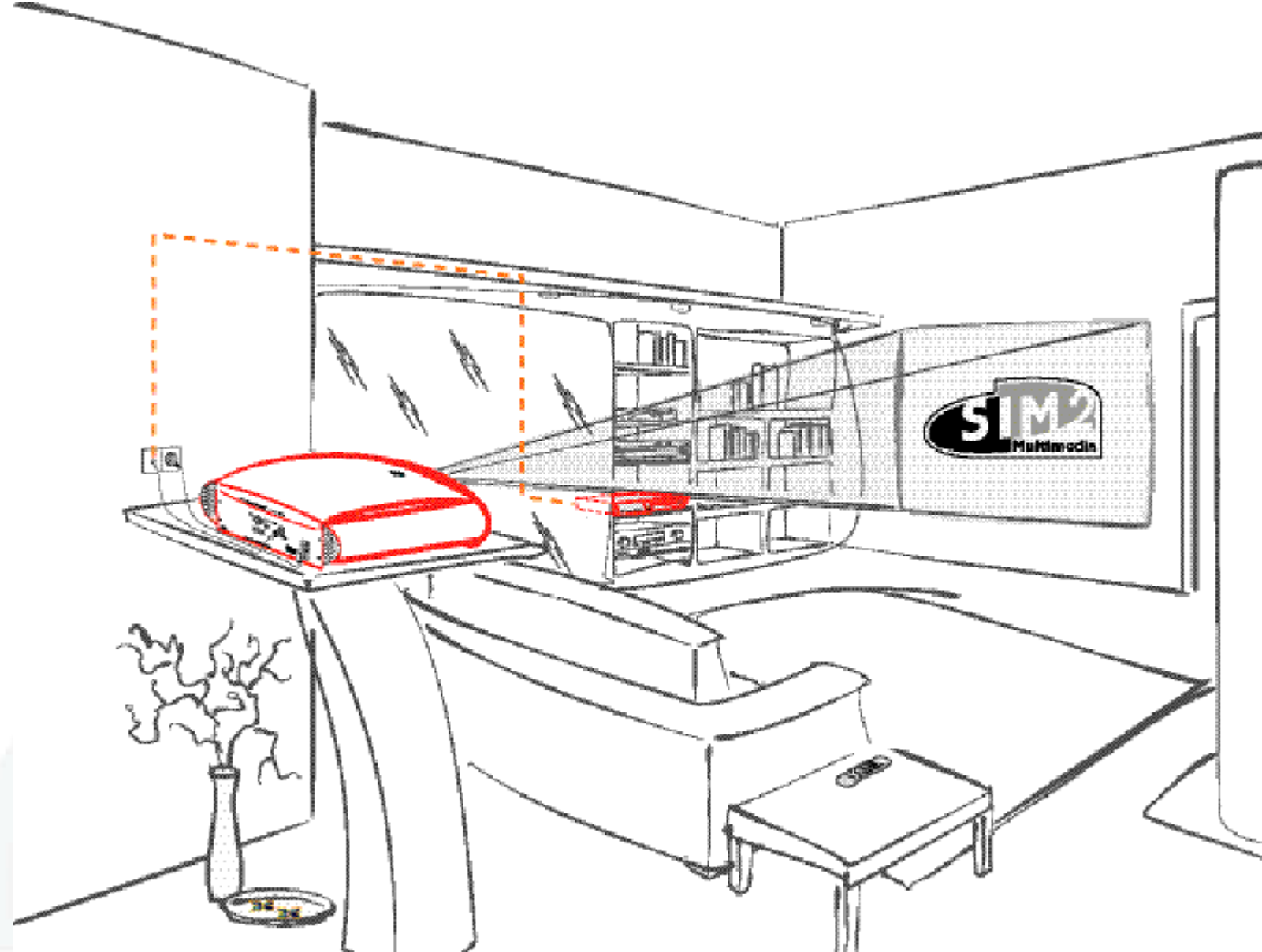
In order to accommodate a variety of installations the HT500 LINK has a choice of 5 high quality zoom lenses. From a modest throw of 1.2:1 to a whopping 6.1:1 the HT500 can be installed in the smallest or largest of Home theater - simply request your lens type when specifying your projector.

On board 2nd generation DCDi™ Video Processing powered by Faroudja guarantees an image that is free from motion artefacts and that your film collection is displayed just as the Director intended!

For ease of use the HT500 LINK is supplied with a back-lit remote control, all buttons are illuminated in Cool Blue for easy access to the projectors on screen menus.

## Design and colors

Top Italian Concept Designer Giorgio Revoldini has once again delivered a design that is synonymous with SIM2, the HT500 LINK's elegantly designed cabinet sports smooth curves that makes this product a high-class focal point for any décor. The HT500 LINK is available in an elegant Dark Gray cabinet color.



## Fiber Optics vs Copper: main advantages

- ✗ Speed: Fiber optic networks operate at high speeds - up into gigabits
- ✗ Bandwidth: Large carrying capacity
- ✗ Distance: Signals can be transmitted further without the need to be "refreshed" or strengthened
- ✗ Resistance: Greater resistance to electromagnetic noise such as radios, motors or other nearby cables
- ✗ Maintenance: Fiber optic cable has a lower maintenance costs

# Grand Cinema HT300 LINK future-proof



## key points

- ✧ The first projector to feature fiber optic connection
- ✧ HD2+ DMD chip by Texas Instruments for true 16:9 (1280 x720 pixels) resolution
- ✧ External DigiOptic™ Image processor with 12 inputs (connection up to 500 m - 1600 ft)
- ✧ True contrast ratio: >2800:1
- ✧ Future-proof digital inputs, including HDMI™-HDCP and DVI
- ✧ new software: customizable inputs & memory
- ✧ New, silent 6-segment color wheel

The HT300 LINK is an innovative projector of the acclaimed and successful Grand Cinema HT line, featuring the revolutionary SIM2's DigiOptic™ Image Processor, the remote processor box equipped with a wide choice of inputs and linked to the projector through a thin fiber optic cable (3,5mm - 0,14" diameter).

The DigiOptic™ Image Processor, also used with the RTX range, is an engineering triumph that harnesses the true potential of fiber optic connectivity. It is based on a CMOS chip-set, allowing a true digital source-to-display link. This allows for incredible flexibility with the installation, greatly reducing the need for numerous long cable runs to the projector. The system is also easily upgradeable in the future to accommodate additional connections. The external image processor features new digital inputs such as HDMI™-HDCP and DVI that allows a complete digital connectivity to an increasing amount of video sources equipped with digital outputs, thus guaranteeing a perfect reproduction, without any loss of information or interference in the signal.



## The HDMI™ input

**HDMI™** (High Definition Multimedia Interface) is the perfect link between digital audio/video sources and High Definition displays.

It is a purely digital connection that transmits the uncompressed bitstream directly from the source through to the display - even high definition. It is backwards compatible with DVI and offers significant advantages.

The connectors are much smaller and user friendly, and can carry digital audio.

SIM2 will shortly be introducing IEEE1394, and together with HDMI™ and DVI, we will be offering an impressive array of digital connections.



## A new software

The software and light engine have been further improved, enabling the HT300 LINK to deliver both an impressive and outstanding contrast.

This improvement coupled with Texas Instruments new HD2+ chip, gives the HT300 LINK a contrast of 2800:1, resulting in a phenomenal image quality.

Also, the HT300 LINK features a brightness burst function which increases brightness up to 15% without loss in contrast or black level, as well as new OSD features (memory list, label entry, programmable RC, etc.).

## The colors

The HT300 LINK elegantly designed cabinet is available in a rich palette that suits the most diverse interior decoration styles.

Gun Metal Gray (standard)



Royal Burgundy (optional)



Shiny Silver (optional)



# Grand Cinema HT300 XTRA-H

the extra shine



## key points

- ✍ HD2+ DMD chip by Texas Instruments for true 16:9 (1280 x720 pixels) resolution
- ✍ True contrast ratio: >2800:1
- ✍ Future-proof digital inputs, including HDMI™-HDCP and DVI
- ✍ New software: customizable inputs & memory
- ✍ New, silent 6-segment color wheel
- ✍ Lens shift and digital keystone adjustment
- ✍ Long Throw Ratio zoom lens
- ✍ Built-in DCDi™ deinterlacer and video enhancement

In true SIM2 style, the Grand Cinema Line is synonymous with cutting-edge technology and the new HT300 XTRA-H is no exception!

The HT300 XTRA-H was specifically designed for the discerning Home Theater enthusiast, who demands the same outstanding image quality of the HT300LINK but has no need for the added functionality that the DigiOptic™ Image Processor and the associated fiber optic lead has to offer. It utilizes the same advanced light engine and high quality optics to deliver a truly exquisite image that is undeniably cinematic.

Based on the new HD2+ DMD™ chip by Texas Instruments (1280 x 720 pixels, micromirror tilting angle of 12°), the SIM2 HT300 XTRA-H delivers both native support for 720p, as well as a 16:9 aspect ratio for true High Definition capability.



## Extraordinary features

The HT300 XTRA-H features new digital inputs such as HDMI™-HDCP and DVI that allows a complete digital connectivity to an increasing amount of video sources equipped with digital outputs.

HDMI™ (High Definition Multimedia Interface) is the perfect link between digital audio/video sources and High Definition displays. It is a digital connection that transmits the uncompressed bit stream directly from the source through to the display - even high definition. It is backwards compatible with DVI and offers significant advantages. The connectors are much smaller and user friendly, and can carry digital audio.

Modifications and improvements to the software and light engine, together with the introduction of the HD2+ chip gives the HT300 XTRA-H an "EXTRA" shine over its competitors, resulting in a contrast ratio of 2800:1 and a phenomenal image quality. The HT300 XTRA-H has also been equipped with a new, enhanced Color Wheel, resulting

HT300 XTRA-H

SIM2 Grand Cinema HT



in a very high performance with an exceptionally low noise level. Add a backlit remote control to the mix for ease of use in the dark and you have a truly comfortable and enjoyable Home Cinema experience!

The HT300 XTRA-H benefits from the usual outstanding features of the superior SIM2 Grand Cinema Line: Inbuilt deinterlacer and video enhancement (DCDi™ by Faroudja); accurate color palette (reds, greens and blues are rich, saturated and vibrant "true" colors); a 6-segment color wheel and finally; a complete compatibility with all video sources, picture standards (PAL, NTSC, SECAM) and computer graphics up to 1600 x 1200 pixels resolution (compressed).

## The colors

The HT300 XTRA-H elegantly designed cabinet is available in a rich palette that suits the most diverse interior decoration styles.

Gun Metal Gray (standard)



Royal Burgundy (optional)



Shiny Silver (optional)



# Grand Cinema HT 280

Simply stunning



## key points

- ✂ Proprietary optical engine design (sealed)
- ✂ Long throw ratio for a true cinematic experience
- ✂ Matterhorn DMD chip by Texas Instruments (1024 x 576 pixels resolution)
- ✂ True contrast ratio: >2300:1
- ✂ Future-proof digital inputs, including HDMI™-HDCP and DVI
- ✂ New software: customizable inputs & memory
- ✂ New, silent 6-segment color wheel
- ✂ Built-in DCDi™ deinterlacer and video enhancement

The HT280 is the latest single chip DLP™ technology-based front projector to be added to the Grand Cinema range and features the 1024 x 576 Matterhorn chipset from Texas Instruments, ideally suited to European DVD and broadcast formats.

A newly enhanced SIM2 light engine, as featured in other Grand Cinema projectors, provides a true contrast ratio of around 2300:1 and delivers stunning film like image quality. The HT280's long throw lens is perfect for positioning the projector at the back of the room, behind the audience to recreate a true cinematic experience.



A combination of the new SIM2 6 segment color wheel, Texas Instruments ED2 chip set and SIM2's new proprietary light engine, all components of the HT280, ensures that the HT280 delivers very accurate color rendition capabilities with vibrant reds, greens and blues for a film-like image.

Like all other Grand Cinema HT models, the HT280 sports the HDMI™ input. HDMI™ (High Definition Multimedia Interface) is an uncompressed digital connection that transmits HDTV at 2.2Gbps - with a strong content protection (HDCP) - directly from the source through to the display.

The HT280 features a new Formatter Board that is integrated with the latest Faroudja Deinterlacer. This new implementation to the hardware and software allows a broad series of functions such as video noise reduction,



flesh tone correction, customized Adjustment of all parameters (different adjustments per input), overscan of 33 different positions, and auto Power On selectable

## The colors

The HT280 is presented in the attractive world-renowned Grand Cinema HT cabinet design by Giorgio Revoldini and is available in SIM2's Gun Metal Gray color.



# Grand Cinema

## OPTIONAL ACCESSORIES



### Ceiling, wall, and floor mounting bracket

Thanks to a specific and proprietary long throw ratio zoom lens, ceiling installations are no longer a problem. The GRAND CINEMA HT projector may be installed using an optional bracket mounted to the ceiling corner opposite to the screen, avoiding the unpleasant placement of the product in the middle of the room. Also, SIM2 has designed a special and very stylish floor bracket to match the awarded GRAND CINEMA HT design.

#### key points

- ✍ Ceiling and wall mounting bracket
- ✍ Grand Cinema Style mounting bracket
- ✍ HTR01 Universal remote control



### HTR01 remote control

After the revolutionary introduction of DigiOptic™ Image Processor, SIM2 provides Home Theater enthusiasts with a new, captivating and extremely useful device to play with: The HTR01 Home Theater Remote Control.

The HTR01 can be used for most devices that understand infrared (IR) remote control signals. Its easy-to-use touch screen with 256 colors and its intuitive interface makes it a perfect remote control for every user. The HTR01 is completely customizable. In its memory, RC codes are stored to activate different brands for all kinds of video and audio devices. You simply define the brands of your devices when you use the HTR01 for the first time.



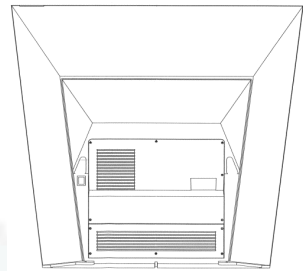
The HTR01 can also learn RC codes from existing remote controls. It is designed to add devices and functions, relabel buttons, record macros and set timers. With the PC Editor software you create your own control panels and define your personal look. The HTR01 is available in the typical SIM2 Gun Metal color.



HTR01



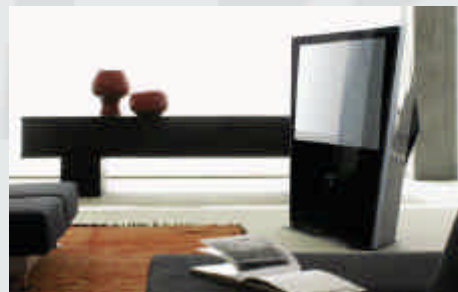
# Grand Cinema RTX



The Grand Cinema RTX line was developed to challenge the concept of Home Theater Display. Innovative and unique both in technology solutions and aesthetic design, the RTX epitomizes the mission of SIM2: delivering

superior quality Home Theater display systems to Home Cinema enthusiasts.

Innovation, is the word often used when an unique product is developed. However, the expectations of the SIM2 customer are more than innovation, expecting products that do not become outdated both technically and on aesthetics. In addition to this, they expect performance as well as uniqueness and longevity.



The SIM2 RTX line offers an impressive alternative to other medium sized Home theater screens currently on the market, providing exceptional video performance from the DLP™ based light engine, through to a contemporary and stylish finish, befitting to the most diverse of home interiors.

Furthermore, the versatility of the SIM2 LINK concept allows for an incredibly discrete installation every time!

SIM2 has an impressive history in DLP™ front projection and as one of the pioneering manufacturers within this market has built a loyal customer base within their front projection range of products.

The SIM2 rear projection displays are however astounding the discerning front projector enthusiasts, who are amazed at the rich colors and sharp detail achievable from a SIM2 rear projection unit. With the Grand Cinema RTX, emotions and enthusiasm are enjoyed in the comfort of the most suitable environment: your own home.



# Grand Cinema RTX 45 RTX 55 H



## key points

- ✍ DMD chip by Texas Instruments (1280 x720 pixel resolution)
- ✍ 55" and 45" screen dimensions
- ✍ External DigiOptic™ Image processor with 12 inputs
- ✍ Proprietary Fresnel lens and cabinet design
- ✍ Future-proof digital inputs (HDMI™-HDCP on RTX55-H)
- ✍ Built-in DCDi™ deinterlacer and video enhancement
- ✍ Reduced depth

After the success of Grand Cinema HT series, SIM2 realized the need to apply the projectors technology to a display device that could be utilized in a variety of rooms while fulfilling the need of the Home Theater enthusiasts.

The market is demanding a self contained product which features innovative exterior design and installation flexibility while maintaining the stunning picture the Grand Cinema HT projectors produce.

With this concept in mind, SIM2 designed the Grand Cinema RTX line: a revolutionary concept where image quality, technology and design are combined.



## Video Entertainment: a new concept

Within the cabinet of the RTX, lies the heart of the system. Based on Texas Instruments DLP™ technology (HD2 for the RTX45 and HD2+ chip for the RTX55H), the Grand Cinema RTX delivers sharp, high contrast (>2000:1) images, edge-to-edge definition, an excellent colorimetry and grey scale tracking.

The Grand Cinema RTX is available in two models RTX 55H and RTX 45 (respectively 55" and 45" diagonal screens - 16:9 image format) and far exceeds today's standards of technology: Features such as a fiber optic link, high speed laser, custom-made lens and engine, latest generation DCDi™ processing by Faroudja and finally HDMI™ input (RTX55H only), all create a truly future proof product.

In fact, the RTX 55H and RTX 45 integrate perfectly within your existing high-end audio system. All inputs can be conveniently connected via the SIM2 proprietary DigiOptic™ Image Processor, a remote system that



channels the input feeds, including the newly added HDMI™ digital connector (RTX55H only), along a thin kevlar-coated fiber optic cable to the RTX system. This, together with the RTX simple menus and vertical tilting system, make installation and set-up easy and fast.

SIM2 manufactures all of their products with foresight and the RTX line is no exception. It can be constantly upgraded via the RS232 connector and is fully compatible with emerging products and technologies.

Also, the RTX line features three custom-made components (SIM2 patent rights): first, a high resolution projection lens for reduced cabinet depth; second, a specific Fresnel lens to match the DMD chip; and, third, an improved and sealed light engine for super-high contrast (>2000:1) and black level.





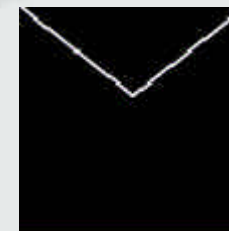
Through your eyes and emotion you will be left breathless every time you watch your Grand Cinema RTX.

The well received DigiOptic™ Image Processor (DOIP) controls the unit through one, thin (3,5mm - 0,14" diameter), robust cable, offering unsurpassed flexibility and ease of integration within your household. All signals and connections, even those critical to length constraints such as HDMI™ input (RTX55H only) at 10-12 meters, or signal loss/interference such as copper based links, can now be transported up to the incredible distance of 500 meters (1600 ft) without any loss in quality or unwanted emission! The system's fiber optic cable coupled with a system of three laser beams allows the user to connect the Grand Cinema RTX to the DOIP™ without compromising the quality of the signal.



The Grand Cinema RTX's elegant cabinet (available in different colors) is immediately recognisable: A fancy crystal front, a reduced depth of 14,5" (approx. 37 cm), sophisticated shapes, and prestigious material make it a true masterpiece by the award winning designer - Giorgio Revoldini.

BS\_BlackShadow



SR\_SilverRed



BR\_BlackRed



SG\_SilverGray





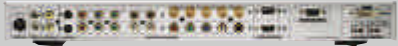
# Technical Specifications

| GRAND CINEMA HT                                                                                         | HT500LINK                                                                                                                        | HT300LINK                                                                                                                        | HT300XTRA-H                                                                                                                      | HT280                                                                                                                            |
|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| LIGHT ENGINE                                                                                            |                                                                                                                                  |                                                                                                                                  |                                                                                                                                  |                                                                                                                                  |
| DLP™ Type                                                                                               | 3 Chip DMD™ HD2                                                                                                                  | 1 Chip DMD™ HD2+                                                                                                                 | 1 Chip DMD™ HD2+                                                                                                                 | 1 Chip DMD™ ED2                                                                                                                  |
| Resolution                                                                                              | 1280x720                                                                                                                         | 1280x720                                                                                                                         | 1280x720                                                                                                                         | 1024x576                                                                                                                         |
| Lens                                                                                                    | High Quality, high resolution improved optics for higher contrast and better black level with both motorized zoom and focus adj. | High Quality, high resolution improved optics for higher contrast and better black level with both motorized zoom and focus adj. | High Quality, high resolution improved optics for higher contrast and better black level with both motorized zoom and focus adj. | High Quality, high resolution improved optics for higher contrast and better black level with both motorized zoom and focus adj. |
| Lamp power consumption & life time*                                                                     | 250W 1500 hours                                                                                                                  | 120W 8000 hours                                                                                                                  | 120W 8000 hours                                                                                                                  | 120W 8000 hours                                                                                                                  |
| INSTALLATION                                                                                            |                                                                                                                                  |                                                                                                                                  |                                                                                                                                  |                                                                                                                                  |
| Throw ratio                                                                                             | 1,44-1,8:1                                                                                                                       | 1,8-2,4:1                                                                                                                        | 1,8-2,4:1                                                                                                                        | 2,21-3,1:1                                                                                                                       |
| Lens shift                                                                                              | V+13°-5,5° ; H +/-3,9°;                                                                                                          | V+/-8°                                                                                                                           | V+/-8°                                                                                                                           | V+/-10°                                                                                                                          |
| Digital keystone adjustment:                                                                            | V+/-18°; H+/-10°                                                                                                                 | V+/-18°; H+/-10°                                                                                                                 | V+/-18°; H+/-10°                                                                                                                 | V+/-18°; H+/-10°                                                                                                                 |
| Picture size (inches diagonal)                                                                          | 60-300                                                                                                                           | 50-250                                                                                                                           | 50-250                                                                                                                           | 50-250                                                                                                                           |
| Aspect ratio: 4:3, 16:9 Anamorphic, LetterBox, panoramic, pixel to pixel + 3 custom-user adjustments    | •                                                                                                                                | •                                                                                                                                | •                                                                                                                                | •                                                                                                                                |
| ELECTRONICS                                                                                             |                                                                                                                                  |                                                                                                                                  |                                                                                                                                  |                                                                                                                                  |
| Horizontal & vertical scan freq.: 15-80kHz/48-100Hz (freq. Max H = UXGA 60Hz)                           | •                                                                                                                                | •                                                                                                                                | •                                                                                                                                | •                                                                                                                                |
| SDTV: PAL (B,G,H,I,M,N,60); SECAM; NTSC 3,58; NTSC 4,43 automatically selected                          | • + 1080i 50Hz                                                                                                                   | • + 1080i 50Hz                                                                                                                   | • + 1080i 50Hz                                                                                                                   | • + 1080i 50Hz                                                                                                                   |
| HDTV: ATSC (480p, 720p, 1080i, 1080p); 576p                                                             | •                                                                                                                                | •                                                                                                                                | •                                                                                                                                | •                                                                                                                                |
| PC graphic standard: VGA, SVGA, XGA, SXGA, UXGA (1600x1200 60Hz)                                        | •                                                                                                                                | •                                                                                                                                | •                                                                                                                                | •                                                                                                                                |
| DCDi by Faroudja                                                                                        | FLI2310                                                                                                                          | FLI2310                                                                                                                          | FLI2310                                                                                                                          | FLI2310                                                                                                                          |
| Contrast ratio (Full ON/ Full OFF)                                                                      | >3800:1                                                                                                                          | >2800:1                                                                                                                          | >2800:1                                                                                                                          | >2300:1                                                                                                                          |
| Color temperature: 3 preset color temperatures + RC user adjustment acting directly on each color (RGB) | •                                                                                                                                | •                                                                                                                                | •                                                                                                                                | •                                                                                                                                |
| Special video adjustments: noise reduction, fleshtone regulation                                        | •/•                                                                                                                              | •/•                                                                                                                              | •/•                                                                                                                              | •/•                                                                                                                              |
| Other special adjustments: memories/overscan                                                            | •/•                                                                                                                              | •/•                                                                                                                              | •/•                                                                                                                              | •/•                                                                                                                              |
| INPUTS/OUTPUTS                                                                                          |                                                                                                                                  |                                                                                                                                  |                                                                                                                                  |                                                                                                                                  |
|                                                                                                         | On DigiOptic™ Image Processor                                                                                                    | On DigiOptic™ Image Processor                                                                                                    |                                                                                                                                  |                                                                                                                                  |
| IN Composite Video (RCA)                                                                                | 2                                                                                                                                | 2                                                                                                                                | 1                                                                                                                                | 1                                                                                                                                |
| IN S-Video (mini Din 4 pin)                                                                             | 2                                                                                                                                | 2                                                                                                                                | 1                                                                                                                                | 1                                                                                                                                |
| IN RGBs/YCrCb (4x RCA)                                                                                  | -                                                                                                                                | -                                                                                                                                | 1                                                                                                                                | 1                                                                                                                                |
| IN RGBHV/YCrCb (5x RCA)                                                                                 | 3                                                                                                                                | 3                                                                                                                                | -                                                                                                                                | -                                                                                                                                |
| IN RGBHV/YCrCb (5x BNC)                                                                                 | 1                                                                                                                                | 1                                                                                                                                | -                                                                                                                                | -                                                                                                                                |
| IN RGBHV (D-Sub 15 pin)                                                                                 | 2                                                                                                                                | 2                                                                                                                                | 1                                                                                                                                | 1                                                                                                                                |
| IN DVI (DVI-D)                                                                                          | 1                                                                                                                                | 1                                                                                                                                | -                                                                                                                                | -                                                                                                                                |
| IN HDMI                                                                                                 | 1                                                                                                                                | 1                                                                                                                                | 1                                                                                                                                | 1                                                                                                                                |
| OUT Digital Audio (Toslink)                                                                             | 1                                                                                                                                | 1                                                                                                                                | 1                                                                                                                                | 1                                                                                                                                |
| RS232 (D-Sub 9 pin)                                                                                     | 1                                                                                                                                | 1                                                                                                                                | 1                                                                                                                                | 1                                                                                                                                |
| OUT 12V 100mA (via Jack)<br>active when the projector is ON                                             | 1                                                                                                                                | 1                                                                                                                                | 1                                                                                                                                | 1                                                                                                                                |
| OUT 12V 100mA (via Jack)<br>active when 16:9 format is selected                                         | 1                                                                                                                                | 1                                                                                                                                | 1                                                                                                                                | 1                                                                                                                                |

<sup>1</sup> Choice of 5 different lenses with these throw ratio: 0,64:1   1,2-1,44:1   1,8-2,4:1   2,4-3,6:1   3,6-5,6:1  
(\*) Lamp life: the hours quoted have been calculated under strict test conditions. Misuse or improper use may later it.



HT300XTRA-H



DigiOptic™ Image Processor

| GRAND CINEMA HT                                         | HT500LINK                              | HT300LINK                           | HT300XTRA-H                         | HT280                               |
|---------------------------------------------------------|----------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| <b>GENERAL SPECIFICATIONS</b>                           |                                        |                                     |                                     |                                     |
| Software control: upgradable via RS232 serial interface | •                                      | •                                   | •                                   | •                                   |
| Power consumption:                                      | 350W max                               | 170W max                            | 180W max                            | 180W max                            |
| Mains voltage range: 120-240Vac ±10% (48/62Hz)          | •                                      | •                                   | •                                   | •                                   |
| Weight:                                                 | 28Kg (61.7 lbs)                        | 5.8Kg (12.8 lbs)                    | 5.8Kg (12.8 lbs)                    | 5.8Kg (12.8 lbs)                    |
| Dimensions (WxHxD):                                     | 540x210x615mm<br>(21.25"x8.27"x24.21") | 350x173x318mm<br>(13.8"x6.8"x12.5") | 350x173x318mm<br>(13.8"x6.8"x12.5") | 350x173x318mm<br>(13.8"x6.8"x12.5") |
| <b>SUPPLIED ACCESSORIES</b>                             |                                        |                                     |                                     |                                     |
| Installation and User Manual                            | •                                      | •                                   | •                                   | •                                   |
| AC power cords 2m (EU, UK ed USA)                       | •                                      | •                                   | •                                   | •                                   |
| Remote control and batteries                            | -                                      | -                                   | -                                   | -                                   |
| Backlit remote control and batteries                    | •                                      | •                                   | •                                   | •                                   |
| DigiOptic™ Image Processor                              | •                                      | •                                   | -                                   | -                                   |
| Fiber optics cable - 20m                                | •                                      | •                                   | -                                   | -                                   |
| HDMI™ cable - 2m                                        | •                                      | •                                   | -                                   | -                                   |
| DVI – HDMI™ cable - 2m                                  | •                                      | •                                   | -                                   | -                                   |
| <b>OPTIONAL ACCESSORIES</b>                             |                                        |                                     |                                     |                                     |
| HT BRKT floor and ceiling mounting bracket              | • (ceiling mounting only)              | •                                   | •                                   | •                                   |
| HT BRKT STYLE - ceiling / floor mounting bracket        | -                                      | -                                   | -                                   | •                                   |
| HT fiber optics cable 40m                               | •                                      | •                                   | -                                   | -                                   |
| HTR01 universal remote control                          | •                                      | •                                   | •                                   | •                                   |



GRAND CINEMA RTX

RTX55-H

RTX45

|                                     |                                      |                                      |
|-------------------------------------|--------------------------------------|--------------------------------------|
| LIGHT ENGINE                        |                                      |                                      |
| DLP™ Type                           | 1 Chip DMD™ HD2+                     | 1 Chip DMD™ HD2                      |
| Resolution                          | 1280x720                             | 1280x720                             |
| Lens                                | High quality, high resolution optics | High quality, high resolution optics |
| Lamp power consumption & life time* | 120W 6000 hours                      | 120W 6000 hours                      |

|                                                                           |                                  |                                  |
|---------------------------------------------------------------------------|----------------------------------|----------------------------------|
| INSTALLATION                                                              |                                  |                                  |
| Picture size (inches diagonal):                                           | 55                               | 45                               |
| Aspect ratio: 4:3, 16:9 Anamorphic, LetterBox + 3 custom-user adjustments | • + panoramic and pixel to pixel | • + panoramic and pixel to pixel |

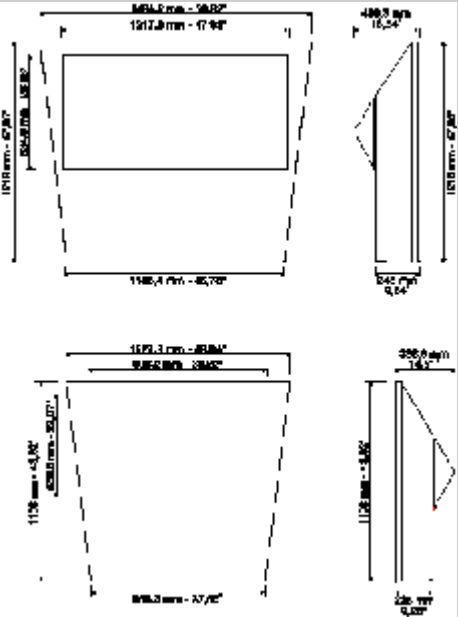
|                                                                                                           |                |         |
|-----------------------------------------------------------------------------------------------------------|----------------|---------|
| ELECTRONICS                                                                                               |                |         |
| Horizontal & Vertical scan freq.: 15-80kHz/48-100Hz (freq. Max H = UXGA 60Hz)                             | •              | •       |
| SDTV: PAL (B,G,H,I,M,N,60); SECAM; NTSC 3,58; NTSC 4,43 automatically selected                            | • + 1080i 50Hz | •       |
| ATSC (480p, 720p, 1080i, 1080p); 576p                                                                     |                |         |
| PC graphic standards: VGA, SVGA, XGA, UXGA (1600x1200)                                                    | •              | •       |
| DCDi by Faroudja                                                                                          | FLI2310        | FLI2200 |
| Contrast ratio (Full ON/ Full OFF)                                                                        | >2300:1        | >2000:1 |
| Color temperature: 3 preset color temperatures + a RC user adjustment acting directly on each color (RGB) | •              | •       |
| Special video adjustment: noise reduction, fleshtone regulation                                           | •/•            | -/-     |
| Other special adjustments: memories/overscan                                                              | •/•            | -/-     |

|                                             |                |   |
|---------------------------------------------|----------------|---|
| INPUTS / OUTPUTS DigiOptic™ Image Processor |                |   |
| IN Composite Video (RCA)                    | 2              | 2 |
| IN S-Video (mini Din 4 pin)                 | 2              | 2 |
| IN RGBs/YCrCb (4x RCA)                      | -              | - |
| IN RGBHV/YCrCb (5x RCA)                     | 3              | 3 |
| IN RGBHV/YCrCb (5x BNC)                     | 1              | 1 |
| IN RGBHV (D-Sub 15 pin)                     | 2              | 2 |
| IN DVI (DVI-D)                              | 1 <sup>2</sup> | 1 |
| IN HDMI                                     | 1              | - |
| OUT Digital Audio (Toslink)                 | 1              | - |
| RS232 (D-Sub 9 pin)                         | 1              | 1 |
| OUT 12V 100mA (via Jack)                    | 2              | 2 |

|                                                                 |                                                |                                                |
|-----------------------------------------------------------------|------------------------------------------------|------------------------------------------------|
| GENERAL SPECIFICATIONS                                          |                                                |                                                |
| Control: control software upgradable via RS232 serial interface | •                                              | •                                              |
| Power consumption                                               | 170W max                                       | 170W max                                       |
| Mains voltage range: 100-240Vac ±10% (48/62Hz)                  | •                                              | •                                              |
| Weight:                                                         | 85Kg (187.4 lbs)                               | 65Kg (143.3 lbs)                               |
| Dimensions (WxHxD):                                             | 1495 x 1218 x 421 mm<br>(58.85"x47.95"x16.57") | 1228 x 1108 x 373 mm<br>(48.35"x43.62"x14.68") |

|                                      |   |   |
|--------------------------------------|---|---|
| SUPPLIED ACCESSORIES                 |   |   |
| Installation and User Manual         | • | • |
| AC power cords 2m (EU, UK ed USA)    | • | • |
| Remote control and batteries         | - | • |
| Backlit remote control and batteries | • | - |
| DigiOptic™ Image Processor           | • | • |
| Fiber optics cable- 20m              | • | • |
| HDMI™ cable - 2m                     | • | - |
| DVI – HDMI™ cable- 2m                | • | - |

|                                |   |   |
|--------------------------------|---|---|
| OPTIONAL ACCESSORIES           |   |   |
| HT fiber optics cable 40m      | • | • |
| HTR01 Universal remote control | • | • |



(\*) Lamp life: the hours quoted have been calculated under strict test conditions. Misuse or improper use may later it.