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SIM2 Multimedia is certified

UNI EN ISO 9001

TEND

HT300 PLUS

SIM2 Grand Cinema HT

lifestyle & technology

The revolution is not yet over! Get ready for the latest addition to the SIM2 Grand Cinema line: the HT300 PLUS projector. In respect to the already excellent performance of the previous HT300 model, the new SIM2 HT300 PLUS sports exceptional performance: a 28% reduction of the black level, a 17% increase of the brightness for an overall increase of the contrast ratio of +63%. Whether you are new to the home theater world, or an avid enthusiast, or simply prefer superior quality in your life, the SIM2 HT300 PLUS is the right projector for you!

HT300 PLUS | SIM2 Grand Cinema HT

a dream in high definition

The Cinema has always been a place of dreams: now, you may savor the same, unique emotions in the comfort of your own home. Based on the new HD-2 Digital Micromirror Device™ by Texas Instruments (1280 x 720 pixels, micromirror tilting angle of 12°), the SIM2 HT300 PLUS delivers both native support for 720p, as well as a 16:9 aspect ratio for true High Definition capability. With the SIM2 HT300 PLUS projector your emotions will never fade.

key points

- A projector designed specifically for home theater
- Proprietary high performance optical engine design (sealed)
- New 16:9 (1280x720 pixels) HD2 chip by Texas Instruments for 720p native HDTV resolutions
- True contrast ratio >1800:1
- 6-segment color wheel
- Long throw ratio zoom lens
- DVI input
- Built-in Faroudja powered DCDi™ deinterlacer and video enhancement
- Elegant cabinet design
- Remote Input Interface (optional)
- Style Bracket (optional)

superb image quality

The accuracy in color reproduction plays a vital part in creating a film like image. A new sophisticated proprietary optical design, coupled with a high performance zoom lens, ensures dramatic contrast images, superior uniformity and edge-to-edge definition with exceptional colorimetry and gray scale tracking. The light path has been redesigned to improve the black level, allowing the SIM2 HT300 PLUS to reach a true contrast ratio >1800:1. Indeed, SIM2 has further reduced the black level of –28% and increased the brightness by +17%.

Furthermore, the SIM2 HT300 PLUS features a built-in deinterlacer and video enhancement (DCDi™) powered by Faroudja Laboratories. This new technology applies motion adaptive deinterlacing that prevents the introduction of motion artifacts and jagged edges from video signals that originate from video cameras. The DCDi™ also features patented 3:2 pull-down with advanced edit detection for exact reconstruction of the original film frame.

Also, the DVI-D input allows complete digital connectivity to an increasing amount of video sources equipped with digital outputs, guaranteeing a perfect reproduction without any loss of information or interference in the signal. The SIM2 HT300 PLUS projector is equipped with a 6-segment color wheel that, by increasing the frequency of the colored images, dramatically reduces the color separation artifacts (commonly referred as a "rainbow effect"); the annoying color flickering visible to a small percentage of individuals. So if you are looking for excellent color balance and saturation, the SIM2 HT300 PLUS will deliver every bit of information in those signals onto your screen. Indeed, handling clear, content-rich signals is where the SIM2 HT300 PLUS shines.

HT300 PLUS | SIM2 Grand Cinema HT

any space befitting of a great idea

Slim and small, the SIM2 HT300 PLUS projector delivers high technology in a lightweight casing (5.8 kg - 12.8 lbs only). The ease of trasport and the wide choice of input connectors make these projectors flexible enough to use anywhere. With GRAND CINEMA HT you can bring your private movie theater everywhere - from room to room or house to house - without sacrificing the unique emotion delivered by the big screen.

designed for home use

The SIM2 HT300 PLUS long-throw ratio zoom lens (1.8 - 2.4:1) prevents the typical, unpleasant placement of the product between the viewer and the screen. In fact, the projector is so versatile, it can be placed on a bookshelf or installed in the ceiling opposite the screen. The triple keystone adjustment provides a +/-8° optical correction (lens shift) for a perfectly rectangular image without artifacts, and where high-ceiling installations are an issue, digital keystone correction (+/-13° vertical and +/-10° horizontal) can be added via Remote Control. Last but not least, SIM2 has developed a special, whisper-quiet mechanical design for extremely low acoustic noise.

HT300 PLUS | SIM2 Grand Cinema HT

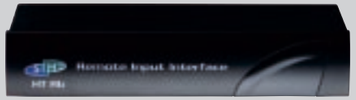
accessories

REMOTE INPUT INTERFACE

SIM2 has designed a unique accessory (optional) - the Remote Input Interface (RII) - that easily connects the projector to the different video sources used in home theater applications. Positioned next to the video sources (digital receivers, DVD, VCR, etc.), the RII is linked to the projector through a unique cable, designed specifically to eliminate unsightly multiple cable runs to the projector and dramatically ease the installation process.

RII Inputs

- 2 x Composite Video via RCA
- 2 x S-Video via 4 mini DIN
- 1 x RGB via 15 pin VGA ‘D’ Connector
- 1 x RGBS via 4 x RCA connectors
- 1 x YcrCb via 3 x RCA connectors
- 1 x serial RS232 via Dsub 9 pins connector
- 1 jack 12V power output, active when the projector is ON
- 1 jack 12V power output, active when 16:9 and User format is selected

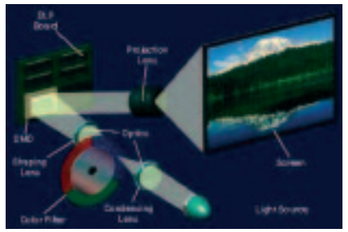


CEILING, WALL, AND FLOOR MOUNTING BRACKET

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 opposite the screen, avoiding the unpleasant placement of the product in the middle of the room. Also, SIM2 has designed a very stylish floor bracket to match the awarded GRAND CINEMA HT design.

the DLP™ 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.

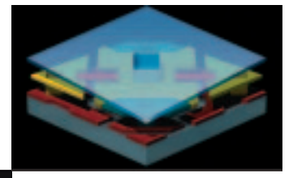


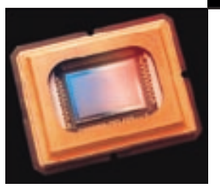
- **Digital Light Processing: How It Works**

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”.

- **One-Chip DLP System**

SIM2 Multimedia has chosen to develop a one-chip technology based proprietary solution for the new range of products, designed specifically for home theater applications. In a single-DMD projection system, a color wheel is used to create a full-color projected image. The color wheel is a red, green, and blue filter system that spins at 60 Hz to give 180 color fields per second (256 shades for each of the primary colors, or 256^3 - 16.7 million - possible colors that can be generated). A white segment may be added to increase brightness efficiency of the system.

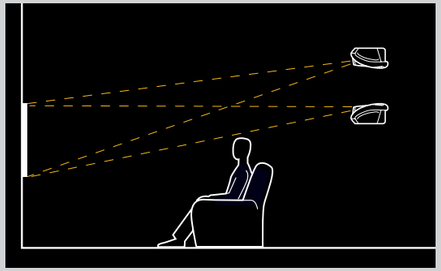




technical specification

Light engine

- DLP™ Type: Proprietary sealed optical engine based on 1 DMD™ (HD2 chip).
- Resolution: True 16:9 (1280 x 720 pixels)
- Lens: High quality resolution with both motorised zoom and focus adjustments
- Throw ratio: 1.8 – 2.4:1
- Lamp power consumption & life time: 120W UHP; 6000 hours (*)



Projection Distances

Follow the table below to determine the optimal projection distance (between the screen and the center of the lens). This will help you to obtain the desired screen size.

Screen size (diagonal) in.	Screen width		4/3						Screen width		16/9					
			Projection distance								Projection distance					
			min			max					min			max		
in.	m	in.	m	ft.	in.	m	ft.	in.	m	in.	m	ft.	in.	m	ft.	in.
50”	1,0	40”	2,4	8’	0”	3,4	11’	0”	1,1	44”	2,0	6’	6”	2,7	9’	0”
60”	1,2	48”	2,9	9’	7”	4,0	13’	2”	1,3	52”	2,4	7’	10”	3,3	10’	9”
70”	1,4	56”	3,4	11’	2”	4,7	15’	7”	1,6	61”	2,8	9’	1”	3,8	12’	7”
80”	1,6	64”	3,9	12’	6”	5,4	17’	7”	1,8	70”	3,2	10’	5”	4,4	14’	4”
90”	1,8	72”	4,4	14’	4”	6,0	19’	9”	2,0	78”	3,6	11’	9”	4,9	16’	2”
100”	2,0	80”	4,9	16’	0”	6,7	22’	0”	2,2	87”	4,0	13’	1”	5,5	17’	11”
120”	2,4	96”	5,8	19’	2”	8,0	26’	5”	2,7	105”	4,8	15’	8”	6,6	21’	7”
150”	3,1	120”	7,3	23’	11”	10,1	33’	0”	3,3	131”	6,0	19’	7”	8,2	26’	11”
180”	3,7	144”	8,8	28’	9”	12,1	39’	7”	4,0	157”	7,2	23’	6”	9,9	32’	4”
200”	4,1	160”	9,7	31’	11”	13,4	44’	0”	4,4	174”	8,0	26’	1”	11,0	35’	11”
220”	4,5	176”	10,7	35’	1”	-	-	-	4,9	192”	8,8	28’	9”	12,0	39’	6”
250”	5,1	200”	12,2	39’	11”	-	-	-	5,5	218”	9,9	32’	7”	13,7	44”	11”

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

Installation

- Optical keystone adjustment: 16° (+/- 8°) lens shift
- Digital keystone adjustment: 26° (+/-13°) vertical, 20° (+/-10°) horizontal
- Picture size: 50-300 inches diagonal
- Aspect ratio: 4:3, 16:9, Anamorphic, Letterbox (PAN & SCAN), plus 3 custom-user (H&V) adjustments

Inputs/Outputs

- 1 composite video via RCA connectors
- 1 S-VHS via mini Din-4 pin
- 1 RGBHV via D-sub 15 (PC input)
- 1 x RGBS/YCrCbS via 4xRCa connectors
- 1 remote input interface, EVC type, standard VESA
- 1 x RS232 on Dsub 9 pin connector
- 1 x DVI via DVI-D connector
- 1 x jack 12V power output, active when the projector is ON
- 1 x jack 12V power output, active when 16:9 format is selected (max 12V power output 100 mA)

Electronics

- Horizontal & vertical scan freq.: 15-80 KHz / 48-100 Hz (max horizontal freq. corresponding to UXGA, 60 Hz)
- Video standards and graphic resolutions: PAL B, G, H, I, M, N, 60, SECAM, NTSC 3.58 & 4.43 automatically selected; HTDT ATSC (480p, 720p, 1080i) PC graphic standard up to UXGA (1600 x 1200 pixels).
- Deinterlacer & processing: On-board DCDi™ by Faroudja. 3:2 pull-down sequencing automatically detected
- Contrast ratio (full On / full Off): >1800:1
- Color temperature: 3 preset colors temperatures selectable by remote control
- Special video adjustments: Luma-Chroma Delay adjustment by remote control

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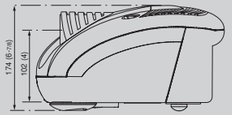
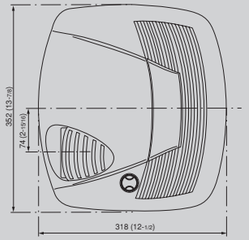
General Specifications

- Control: control software can be upgraded via RS232 serial interface
- Power Consumption: 180W
- Mains voltage range: 100-240 Vac, +/- 10% (48/62Hz)
- Weight: 5.8 Kg (12.8 lb)
- Cabinet dimension (WxHxD): 350 x 173 x 318 mm (13.8” x 6.8” x 12.5”)





Cabinet colors

Standard: Gun Metal,
Optional: Shiny Silver, Royal Burgundy

Certifications

Safety: in compliance with EN 60950/UL1950
Vibration: in compliance with IEC 68-2-6
Emission: in compliance with EN 55022 class B/150 KHz – 30MHz
Recyclable packaging

Supplied Accessories

AC power cords (EU, UK, and USA); length 2 m (6.5 ft); user standard remote control with batteries; installation and user manual

Optional Accessories

Remote Input Interface including special connection cable (10 m); Ceiling bracket & Grand Cinema HT style floor/ceiling stand