SMG45 D169

Technical specifications

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	1280 x 720	
	16:9, Anamorphic, Letter Box, Panoramic, Pixel to Pixel, user	
Brightness	500 cd/m2	
Uniformity	> 70% ANSI measurement	
Contrast Ratio	1000:1	
Number of colors	16,777,216 colors	
Color Temperature	3 preset + 1 user selectable	
Diagonal size	45"	
Width x Height	99,6 x 56,0 cm	
Туре	VIP 120 W	
Average Life	6000 hours (50% survival @50% integral Im maintenance)*	
	15VUz 110VUz	
	19 Uz 120 Uz	
	170 MUz @ 2dR for graphic signals;	
	$170 \text{ IVITIZ} \oplus -300 \text{ IVI YIAPITIC SIGNALS,}$	
	6 IVITIZ @ -2 UB IUI VIUEU SIGIIAIS	
	ITOTIT VGA (640X480) TO UXGA (1600X1200) With Internal scaling	
	automatic recognition and decoding: PAL, NTSC, SECAM	
	Internal motion-adaptive deintenacing	
	1 x RGB+HV (or YPrPb) on 75 Ohm BNC connectors	
	1 x RGB+HV on HD15 connectors	
	- 1 x CVBS1 in on BNC1 connector	
	- 1 x CVBS out on BNC2	
	- 3 x CVBS in on BNC3-4-5 connectors	
	- 1x S-Video (in-out) on mini DIN4 Connectors .	
	ATSC HDTV is also supported on BNC or HD15 connectors	
	- 1x RGB HV15 KHz (from SCART output) su BNC 1-5	
	Analog RGBHV + Digital RGB (in/out)	
	Serial Interface RS232C on DB9 in connector	
	RS485 on DB9 in/out connectors	
	USB for control from a remote PC:	
	IR Control Remote handset on request	
	100 Vac - 240 Vac +/- 10%: Line Frequency 48 - 62 Hz	
	Max 186 W (160 Kcal/h)	
	@120 V·1.5 Arms_@230V· 0.8 Arms	
	T 3.15A H 5x20mm located on the rearprojector	
	M/4/1/0 100v07v24	
	40 Ka (without base)	
	40 Kg (with base)	
	Operating from 0° to +35°C	
	from -10°C to +55°C	
	from 10% HR to 90% (without condensation)	
	Operating 4000m	
	Transport 11000m	
Drop Test	in compliance with IEC 68-2-31, IEC68-2-32	
Safety	in compliance with EN 60950	
EMC emission	in complance with EN 55022 EN61000-3-2/3	
	Brightness Uniformity Contrast Ratio Number of colors Color Temperature Diagonal size Width x Height Type Average Life	

Easyw	all 3 PC base	ed control software
	000 Remote	Control Handset p/n 790010000
Wall of	Wall or ceiling breacket on request	



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Due to constant product development, specifications and design might be subject to change without notice. SMG45 D169 - World - October 2003



WWW.SIMZ.COM

Headquarters: SIM2 MULTIMEDIA S.p.A. Viale Lino Zanussi 11

USA: SIM2 SELECO USA Inc. 10108 USA Today Way 33025 Miramar FL - USA Tel. +1.954.442 2999 Fax. +1.954.442 2998 email: sales@sim2usa.com www.sim2usa.com

Germany:

SIM2 DEUTSCHLAND GmbH

UK: SIM2 UK Ltd. Iteinway House









45" Display Monitor

SMG45 D169

- DLP[™] technology
- ▶ Native resolution (1280x720)
- Excellent contrast ratio

- DVI Input
- ► Daisy-chain connection

The SMG45 D169 is a 16:9 aspect ratio, large screen 45" monitor suitable for control rooms, briefing and training rooms, teleconference, surveillance and visual messaging information points. The SMG45 D169 delivers superb image guality for a crystal clear display.

Image quality

Burn-in and pixellation free, based on DLP™ technology by Texas Instruments and a stateof-the-art proprietary optical engine, the SMG45 D169 is a professional high definition display designed to deliver bright and high contrast images, with outstanding brightness uniformity, excellent colorimetry and grey level rendering. Special optical, electronic and mechanical solutions have resulted in noise and flicker-free projection. The variety of different available analog and DVI inputs allows the SMG45 D169 to be effectively used both for graphic data and video imaging display. Thanks to its format control capability, that features four fixed formats and a programmable one, the SMG45 D169 can display both 16:9 and 4:3 images.

Reliability

The inherent durability of the DMD[™] and the long average lamp-life of the 120W VIP (6.000 hours)* ensure low power dissipation, long lasting operation and "burn-in" effect-free display. The SMG45 D169 is designed to reliably work in 24/7 facilities.

Easy installation

With a reduced depth of 34 cm and a light weight, the SMG45 D169 is easy to install while its sleek profile is ideal for prestigious environments. The alignment of the image is easily controlled electronically via remote control handset, which allows you to perfectly adapt the image on the screen. Optional brackets for ceiling and wall mount are provided on request.

DVI inputs provide digital quality, in addition to 6 different analog inputs for a professional connectivity. In a chain of monitors, DVI loop-through allows feeding from the same source for a distributed visualization system.

The internal image processing and resizing capabilities of the SMG45 D169 can be effectively exploited to display different source image resolutions from VGA to UXGA. Besides IR remote control, the continuous monitoring and control of the videowall operating parameters during operations is achieved through a serial protocol-based control software via RS485/232 connection. For display operations, the SMG45 D169 can easily be connected to an external image controller for multiple input windows managing. The default adjustments can be stored in specific memory locations that can be easily accessed by the user.

Maintenance

The SMG45 D169 has been designed with special attention in minimize maintenance operations. Service engineers and installation technicians can easily access the rearprojection engine, lamp, electronics optics and first surface glass mirror in a few minutes, hence keeping the maintenance downtime at minimum. Lamp replacement and dust removal are the only routine operations to be easily done from time to time.



Ideal for:

- Executive Meeting Rooms
- Briefing Rooms
- Information Points
- Entertainment
- Edutainment
- Public Information
- Conference Rooms
- Surveillance
- Video Conference



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 RiPH/ CV852
 RiS45 750 OFF ON
 Image: CV852

 Image: CV852
 Image: CV852

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S-VIDEO 75 Ω OFF ON

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45" Display Monitor

DLP[™] Technology

Digital Light Processing[™] is a new display PICTURE BY technology based on a DMD[™] (Digital Micromirror Device from Texas



Instruments), which is a semiconductor integrated micro-electronic mechanical device performing a light switching function. Each of several hundred thousand of micro-mirrors is fixed on a yoke driven by a CMOS static random access memory cell (SRAM).

Each single mirror switches a pixel of light. In a singlechip DMD[™], a color wheel is used to reproduce all the colors of the source image. The color wheel is a RGB color filter system rotating at different frequencies, according to the input signal frequency to reproduce up to 16,777,216 colors.

The digital nature of this technology is free from video noise, delivering a precise image quality, excellent grey scale rendering and unsurpassed colorimetry.



Digital Micromirror Device



Pixel configuration



 $\textit{DMD}^{\mbox{\tiny TM}}$ working principle and configuration