



**LANETCO**

high resolution DLP™  
rear projection system  
with  
*OCTAL PIP processor*



**HyperCube™**

*"The most complete rear projection system"*





# HyperCube™ "PIPx8"

## ▶ Using the latest developments

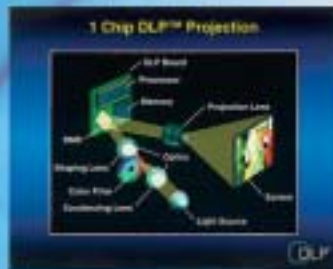
in DLP™ technology, LANETCO's HyperCube™ offers you unsurpassed digital image with the highest resolution and brightness.

HyperCube™ offers you:

- All industry Standard Video, HDTV, SDI, RGBHV & DVI signal formats,
- internal high resolution PIP processor (max. 8 pip per cube),
- high resolution image "1024 x 768, 1280 x 1024",
- high brightness image,
- true colors,
- long lamp life time,
- easy maintenance,
- large picture,
- short depth,
- light weight.



### Single chip DLP™ projection system



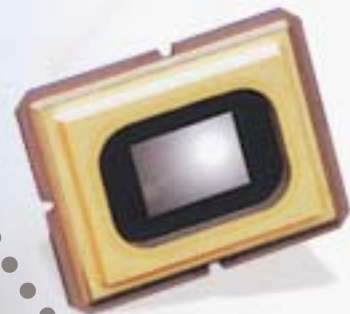
White light is forced down onto a color wheel filter.

This wheel spins in sequence with the red, green and blue video signal being sent to the DMD™.

Mirrors are turned on depending on where and how much of each color is needed for each TV field.

The human visual system integrates the sequential color and sees a full-color image.

### The DMD™ chip



XGA 1024 x 768, 786432 mirrors  
SXGA 1280 x 1024, 1310720 mirrors  
Digital Light Processing™ is a revolutionary new way to project and display information.

This proprietary TI technology incorporates the semiconductor technology of TI's Digital Micromirror Device™, digital signal processing, memory, software, optics and a light source.

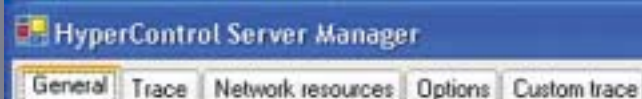
Together, these elements produce unmatched image quality.

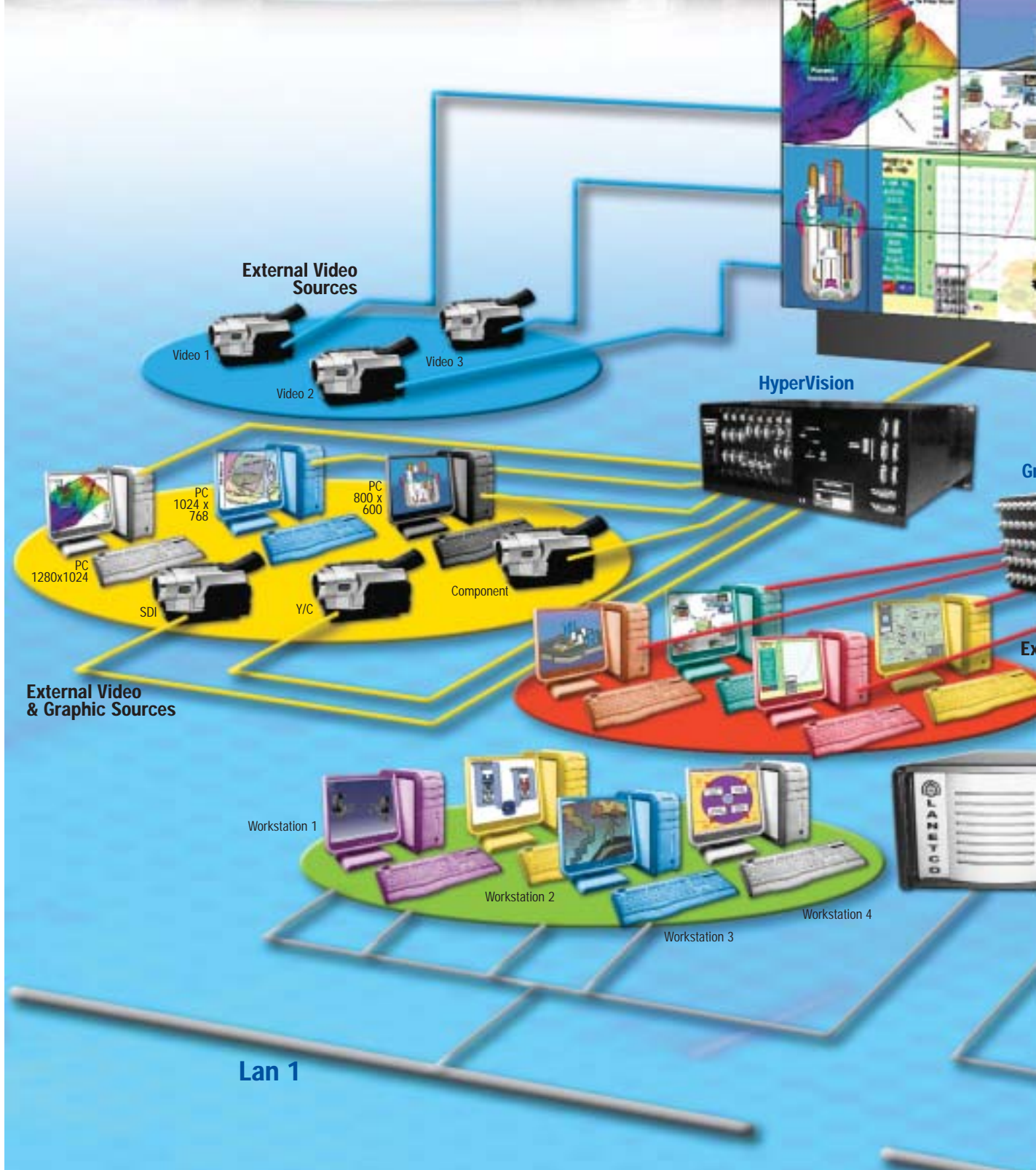


**International  
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# HyperCube™





# The Complete Solution



International  
**LANETCO**





# OCTAL PIP processor "PIPx8"



**HyperCube™**  
▶ XGA ▶ SXGA

**Hypercube™** is a breakthrough in the history of video walls resulting from LANETCO's continuous R & D efforts... A very special and unique rear projector offered only by LANETCO.

**Hypercube™** gives you a high resolution OCTAL picture in picture processor enabling you to mix, re-size and over-layer any of 8 connected signal (HDTV, video, RGBHV, DVI, SDI) and display simultaneously all of 8 signals LIVE as PIP with the help of its RS-232 control software "HyperControl".

**Hypercube™** handles signals from any video, graphic, DVI, SDI and HDTV sources and can expand, shrink and label them.

HyperCube™ Optic module



HyperCube™ Processor module



HyperCube™ Engine



DVI Input

Video Input

RGBHV Input

SDI Input

HDTV Input





## Technical Specifications

	▶ <i>HyperCube-XGA™</i>	▶ <i>HyperCube-SXGA™</i>
<b>References</b>	<i>HC-50X , HC-67X</i>	<i>HC-50SX, HC-65SX, HC-70SX, HC-84SX</i>
DLP Technology	DLP single chip 0.7" XGA DDR	DLP single chip 0.9" SXGA DDR
Luminance	650-700	700-750
Lamp Lifetime (100W )	9000-10000 Hrs	9000-10000 Hrs
Image Resolution	1024 x 768	1280 x 1024
Brightness Uniformity	> 95%	
Color	16,7 Million	
Input Types	Video, Graphic, DVI, SDI, HDTV	
Live display	1 to 8 (one per input)	
Video Standards	Composite or Y/C : PAL: B, D, G, M, N, H, I, K, L, SECAM, NTSC: M, N, 4, 43 (BNC & S connector)	
Graphics	Analog RGBHV/RGBS, interlaced/non-interlaced, Automatic pixel clock recovery Resolution: VGA-UXGA - Frequency: Horizontal: 12-120 kHz, Vertical: 30-120 Hz Pixel clock up to 165 MHz (HD DB-15F connector)	
DVI	Digital TMDS standard (MRD-DFP20 pin connector)	
SDI	Serial Digital Interface for Video signals (BNC connector)	
HDTV	480p, 525p, 720p, 1080i	
Voltage, Vrms	100-240	
Frequency	Hz 50-60	
Phase	1-phase, 2 circuits, 3-phase 2-wire + GND	
Power plug	E.C. Standard / could use any power cable	
Maxi. Input cur.	0.7 AMP	
Total VA	154 VA	
Rating in Ampere	0.7 AMP	
Surge current in Ampere peak	1.6 AMP	
Total Power	154 W	
Heat Output in Watt	80 W	
Earthing	Active Wire Earthing	
Screen Weight (NON glass)	8 Kg	
Power cord length in meter	1.2m	
<b>Temperature</b>		
Operating	0 to 40°C (41 to 95°F)	
No operating	-40 to 66° C (-40 to 151°F)	
Dimensions	50": W100xH75xD60 cm - 67": 136,4x102,3x75 cm - 70": 140x112x84 cm - 65": 128 x 102.4 x 80 cm 50": W40xH30xD24 in - 67": 54,5x40,9x30 in - 70": 56x44,8x33,6 in - 65": 51.2 x 40.9 x 32 in 84" SXGA 163 x 130.4 x 99 cm (on request)	
Image Size	50"                      67"                                             50"                      65"                      70"                      84"	
Weight	50" approx 55 Kg - 67" & 65" approx 70 Kg - 70" approx 100 Kg	
Screen	Ultra Contrast, high brightness (use all type of screens, choice of the customer)	
Mullion (seam)	Seamless or 2 mm or 6 mm	
Control	RS232 remote control by HyperControl™ software	

### HyperCube™ main features:

- ▶ High quality internal graphic & video processor.
- ▶ Supports 5 input signal types (HDTV, Video, Graphic, DVI and SDI).
- ▶ Supports up to 8 input boards per cube.
- ▶ Up to 8 live simultaneous images on each cube.
- ▶ Any number of signal connections using LANETCO or third party routers.
- ▶ Any input type can be mixed and displayed.
- ▶ Possibility of labeling each source and showing it through OSD.
- ▶ Possibility of showing direct text message through OSD.
- ▶ Several internal test signals and color patterns.
- ▶ Possibility of image shrinks and zooms.
- ▶ And much more...



**International  
LANETCO**

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