

# FAROUDJA

## DIGITAL PROJECTOR PACKAGE

High performance digital theater, Faroudja Artistry.



### Art:

Definition: "The conscious production or arrangement of colors, forms, movements, sounds and other elements in a manner that affects the sense of beauty in a graphic medium."

To fully appreciate the artistry of the filmmaker in the home theater, the original material must be recreated with precision. This idea is brought to light with the Faroudja Digital Projector Package. Carefully selected and optimized components are combined to faithfully recreate the film theater experience.

The true art of theater design is the expertise of the installation team to accomplish the delicate process of fine-tuning the system to take it from a good image to a stunning theater experience. This level of video expertise can be hard to find. The Faroudja Digital Projector package insures this level of performance with every video system since each is optimized by Faroudja engineering before leaving the factory.

For 33 years Faroudja has focused on one thing, making better images. Three Emmy awards, 60 patents and the Faroudja Digital Projector Package are all proud results of this approach.



# Digital Video PROCESSING



Digital Cinema Source Processor

The Faroudja Digital Projector Package starts with the processing power of the Native Rate Series, selecting either the Digital Cinema Source or Native Rate Series unit.

Digital Video from the DVD source is now a reality with the Digital Cinema Source processor.

Native Rate Series Processor



By combining superior video and audio engineering with a long list of features, the Digital Cinema Source (NRS-DCS) processor is truly the center of any high quality digital theater system. The NRS-DCS maximizes the benefits of digital video and audio from DVDs by incorporating a DVD drive within a full featured video processor. The digital video is sent directly to the internal patented digital processing stages where the signal is deinterlaced, optimized and scaled up to the display's native resolution. Additional circuits improve edge detail and color fidelity.

A full set of analog video inputs are also included so all your standard video sources can be digitized and scaled to the native resolution. This includes satellite, cable, video games, camcorders and VHS.

The audio performance from the DCS will impress the most demanding audiophile with its proprietary audio stage optimized for both audio for video and audio CD use. Low jitter crystal oscillators, multiple power supplies, RF suppression filters, special shielding and AES/EBU digital connectors all combine for an audio performance rivaling the most expensive CD-only transports.

**DCDi**<sup>™</sup>  
by FAROUDDJA



Emmy Winning Technology



The Native Rate Series processor offers a high performance alternative to the NRS-DCS as it offers full processing of analog sources without the internal DVD drive or audio stage.



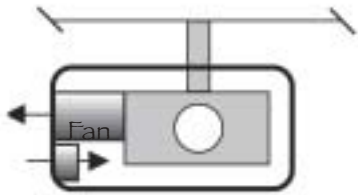
# Optimized Digital PROJECTOR

## Home Theatre Optimized FDP-DILA1 D-ILA Projector

A highly modified D-ILA projector is the next component of the package. The D-ILA technology offers the highest resolution, 3-chip 1365x1024, and the best platform for high performance digital theaters. The FDP-DILA1 has been meticulously optimized by the renowned projector expert William Phelps to offer superior contrast ratio, color and gray scale tracking and flat field response.

A Custom Anamorphic Lens is used to optically squeeze the full 1365x1024 resolution and 1500 lumens to properly fit onto a 16:9 screen. This greatly improves detail and contrast ratio. The video processor can then properly map other aspect ratios on the wideangle screen so any type of source can be used.

A custom built Hush Box is part of the system to insure a quiet theater environment while also helping the projector to run cool. Four heat sensor controlled fans are used to quietly pressurize the box and remove heat. A heavy duty ceiling mount is included.



Custom  
Hush Box

The whole is greater than the sum of the parts when Faroudja applies its engineering's expertise in final fine-tuning and optimizing of the components. The variability and guesswork of theater design are no longer an issue. Each system shipped to customers will be ready to install and will deliver the highest quality home theater experience, every time.

Colors, forms, movements, sounds and quality engineering are the artistry of the Faroudja Digital Projector Package.



Custom  
Anamorphic Lens



# Digital Projector Package SPECIFICATIONS

## Native Rates Series Processor

- Inputs for analog video sources
- Optimized for digital displays
- Patented 3/2 Pull-down with edit detection
- Patented DCDi (Directional Correlational Deinterlacing) for video sources
- Patented Bandwidth Expansion for image detail
- Aspect ratio control for proper image shape
- Image positioning controls
- HD Transcoding YPrPb to RGBHV
- Test pattern generator
- Direct Infrared commands
- Infrared teaching function for learning remotes
- RS232 control

## Digital Cinema Source

Similar features as the NRS and adds:

- Internal DVD drive
- DVI Output
- Three digital audio outputs including AES/EBU
- DVI Pass-Through for installation flexibility
- Two HDTV Inputs for installation flexibility.
- Reclocked and aligned audio stage
- Independent audio and video circuits with Integral RF suppression to reduce interaction between the different circuits.
- Separate low jitter crystal oscillators for DVD and CD audio frequencies
- Isolated display and motor controllers with six highly filtered and regulated power supplies
- Audio-Detect Interlaced/Progressive on YPrPb.
- Compatible with DVD,CD,CD-R,CD-RW, VCD and MP3, Dolby Digital and DTS

## FDP-DILA1 Projector

- Three chip D-ILA 1365x1024 native resolution
- 1500 ANSI lumens
- 2:1 -3:1 powered zoom and focus
- Custom anamorphic lens allows for full use of resolution and light output
- William Phelps Optimization
- Greater than 550:1 contrast ratio
- Excellent flat field response
- Excellent gamma and gray scale
- Image sizing correction
- Customize operational firmware
- Screen sizes up to 12" recommended
- 420 wt Xenon bulb, 1000 hours average lamp life

## Projector Hush Box

- Thermostat controlled
- Four high air volume, low speed fans
- Insures quiet installations
- Cool running projector

Inputs	NRS & NRS-DCS
(Interlaced)	
Format NTSC/PAL	Auto Detect
Composite(BNC)	1vpp
S-Video (4-pin DIN)	Y - 1v pp C -286mv pp
Component (BNC) Interlaced	Y—1vpp(SMPTE) Cr—700mv pp Cb - 700mv pp
RGB ( BNC) Interlaced	Comp. Sync —1vpp RGB—700mv pp
HD/PC Pass-Thru	D15M
NRS-DCS	
Component (BNC) Auto-detect - if signal is above 15.75KHz it will be sent to the pass-through.	Y—1vpp(SMPTE) Cr—700mv pp Cb - 700mv pp
DVI Input (for pass-through only to DVI out)	DVI-I (female) Digital Only
Outputs	NRS & NRS-DCS
R,G,B (BNC or DB15)	700mv pp, TTL Sync 1360x1024/60Hz
YPrPb	700mv pp, Sync on Y-1vpp
RGsB	Gs - 1vpp RGB - 700mv pp
NRS-DCS	
Digital Video Interface	DVI-I(Female) digital only
Digital Audio Connections	RCA,BNC, AES/EBU
Dimensions (with feet and connectors)	NRS-DCS: 13.5DX17.25W X 5.75H NRS: 13D X 17.25W X 4.24H FDP-DILA1: 18.5Dx 16.73Wx 9.68 (with lens) Hush Box: 28 1/4W x 21 5/8D x 13H
Weight	NRS-DCS: 19.5lbs NRS: 15lbs FDP-DILA1: 45.56 lbs Hush Box: 27 lbs
Power Consumption	NRS-DCS: 30.5wts/115VAC/60Hz 42.5wts/230VAC/50Hz NRS: 24w/120v /60Hz 33w/220v /60Hz FDP-DILA1: 660wts/ 60Hz
Power Supply	NRS-DCS & NRS: 100-240VAC 50/60Hz Auto Ranging FDP-DILA1: 100-120V/50-60Hz



Please visit our website at [www.faroudja.com](http://www.faroudja.com)