Digital Cinema Projector

DPX-1100

d-cinema

"d-cinema" is the slogan of Yamaha A/V products and technology, reflecting our focus on digital technology and our leadership in creating and refining digital home theater.

New High Resolution Lens and Advanced Video Technologies Deliver Extraordinary Performance, Including 4,000:1 Contrast.

- Yamaha Natural Black Concept
- 4000:1 contrast ratio
- High resolution lens
- Motorized iris control for higher contrast
- Latest DMD™ HD2+ device
- Seven-segment color wheel
- Faroudja TruLife Enhancer
- Motorized vertical lens shift, iris, focus and zoom controls
- One-line menu with graphical menu configuration

Yamaha Natural Black Concept

NATURAL BLACK

How a video system reproduces black and all its gradations is what determines contrast, and generally makes the difference between an image that is merely good and one that is sharp and richly detailed at every level of brightness. In quest of superior contrast performance, Yamaha developed the Natural Black concept, whereby various technologies, parts and functions combine to achieve truer, deeper levels of black than those of conventional home theater projectors.

Yamaha Natural Black makes subtle degrees of black in textures, shadows and so on stand out more clearly.

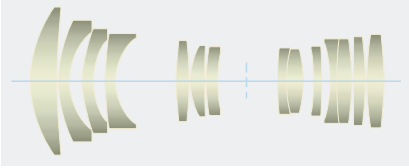
With other projectors, black contrast may be soft and fuzzy rather than sharp and clear.

Taking Projector Performance to a New Level

The DPX-1100 makes use of a wide range of new technologies to deliver extraordinary video performance. Contrast is an incredible 4,000:1, brightness is 800 ANSI lumens, picture sharpness is outstanding and color reproduction is stunningly natural.

High Resolution Lens

Yamaha has gone beyond the capabilities of other projectors with the use of a new high resolution lens that maintains resolution sensitivity to the edge of the lens. Four anomalous dispersion glass components, up from two in the previous model, result in half the chromatic aberration while maintaining a short focal point and high zoom magnification.



DPX-1100
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High Performance HD2+ DMD™

The projector is equipped with the latest DMD device, HD2+, which has narrow mirror gaps and no center pivot mark, improving contrast over the previous version. Video processing is 10-bit from A/D conversion through to DMD output.

Latest DMD HD2+ Device

Seven-Segment Color Wheel

Yamaha debuts the use of a seven-segment color wheel, with an ND filter-equipped green segment having been added to the previous wheel. The seven-segment structure reduces dither, while color reproduction is excellent, with greens being more true to life than ever (achieving the HD monitor "green" standard). Green resolution is 10-bit, which also improves the representation of black tones. Better color balance contributes to a 30% improvement of actual brightness at D65 (white reference color standard), compared to the previous Yamaha projector.

Seven-Segment Color Wheel Principle

Faroudja TruLife Enhancer

Picture clarity is excellent, with clean, sharp edges and details ensured by Faroudja's TruLife Enhancer.

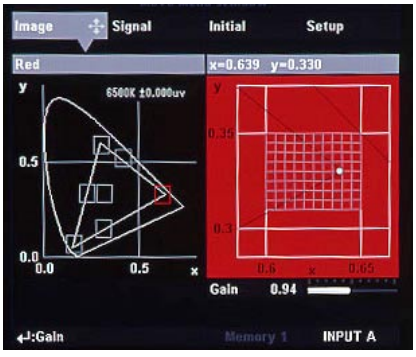
DCDi™ by FAROUDJA

Color Balance System

There are three Color Balance modes. The first is the Standard mode and cannot be adjusted. The second is the RGB mode, which allows adjustment of the red, green and blue colors by specifying x and y values for each (yellow, cyan and magenta are derived from the three main colors). The third mode is RGBYCM, which allows each of the six colors to be directly specified by entering x and y coordinates. There are six memory presets for storing personal adjustments.

Color Temperature Adjustment

The correlated color temperature can be adjusted in 500K increments between 5,000K and 10,000K, for achieving accurate color fidelity. A graph on the color temperature menu facilitates this operation. In order to maintain perfect color balance when the settings are changed, automatic color balance calculation/adjustment is provided.



Control Panel

Mounting Flexibility
Mounting the DPX-1100 is easy and versatile. Lens-to-screen distance can be anywhere from 9 ft. 10 in. to 15 ft. 9 in. (100" screen) thanks to the powerful 1.6x zoom lens. Motorized vertical lens shift is ±50% of projection height , so the projector can be used at any height between the top and bottom of the screen. Iris, zoom and focus adjustments are also motorized.

Silent Operation
The DPX-1100 runs with the quiet efficiency customers expect from a high quality home theater projector. It uses effective DMD and power supply ducting, while minimizing cooling fan operation by continually adjusting it in accordance with picture brightness.

Lamp Power Selector
The multi-step Lamp Power Selector makes it possible to adjust for optimum brightness and contrast with different levels of room lighting and video sources. It can also be used to extend lamp life (at 80% brightness, lamp life goes from 2,000 to 2,500 hours).

Easy to Operate
The projector provides a one-line menu with a graphical menu configuration that makes operation simple.

Six User Preset Memories
There are six memory positions for storing different combinations of parameter settings, and each can be used for two input signals, making a total of 12 memory conditions. The user can store the same parameter combination for DVD and HDTV, for example. The DPX-1100 automatically adjusts when the source is changed, so the user does not have to select a different memory position.

HDMI Terminal
Most high-end projectors provide DVI connection, but the DPX-1100 goes further with an HDMI connection. HDMI can handle digital signals like DVI, but a variety of other information as well, such as component type, scan status and colorimetry, which can be adjusted.

One-Line Menu with Graphical Menu Configuration
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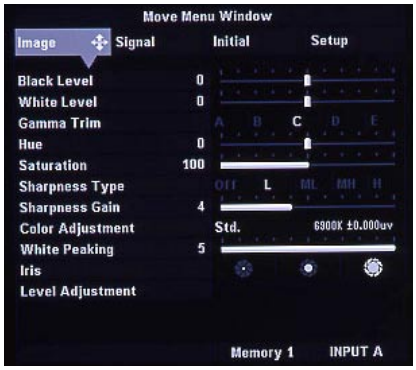
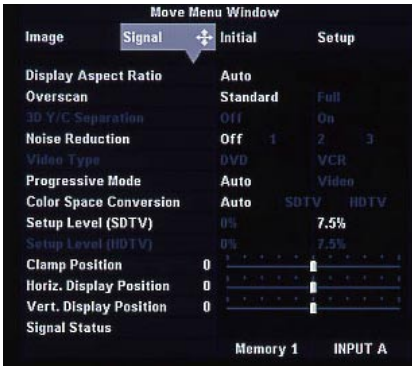
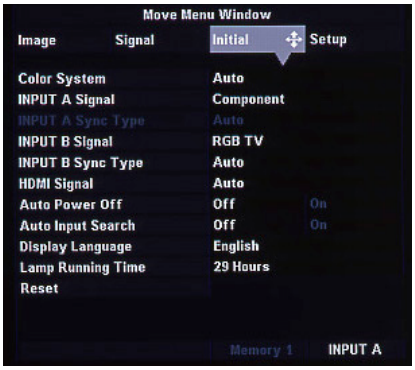
Menus Put You in Total Control
On-screen menus present a wide range of parameters that you can select forinitial setup and later adjustment. You can be sure of achieving the best possible picture for all conditions.

Full-Function Remote Control
All settings, adjustments and lens operations can be performed by remote control. The unit is equipped with backlighting that turns on for 10 seconds each time you touch a button. It is comfortable to hold and operate, with often used buttons the most accessible.







Other Convenient Functions

- Smart Zoom for projecting 4:3 broadcasts onto a full 16:9 screen with no distortion in the middle
- Cinema Zoom with Zoom Up and Zoom Out for eliminating bars on the top and bottom of the 16:9 screen
- Selectable video scan (100% or 94%)
- Automatic aspect conversion
- Manual display aspect selection (8 modes)
- Still (freeze frame) function
- Operation status lock
- Test pattern selection
- Message display keeps you informed of operating status
- Four warning indicators (lamp, cover, temperature, fan)

DPX-1100 Main Specifications

Projection System	Digital Light Processing (DLP)™ Technology
Device Type	Size: 0.8 inch DMD™ HD2+ x1
Pixel	1,280 x 720
Projection Lens	F=2.7-5.0, f=24.3-38.9mm
Functions	Zoom (Motorized): x1.6; Focus (Motorized); Lens Shift
	(Motorized): Vertical Up/Down 50%; Iris (Motorized): 3-Step
Projection Ratio	1.355-2.168 (3.0 - 4.8m, 100" 16:9)
Screen Size	60-200 inch (16:9)
Lamp	270W SHP, 2,000 hours
Brightness	800 ANSI lumens (White Boost: ON, Iris: Off),
	400 ANSI lumens (White Boost: ON, Iris: Fully On)
Contrast Ratio	4000:1 (White Boost: ON, Iris: Fully On),
	2000:1 (White Boost: ON, Iris: Off)
Color Format	NTSC, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60
Scan Frequency	Horizontal: 15-8 kHz
	Vertical: 50-85 Hz (Analog), 60 Hz/50 Hz (Digital)
Control Interface	RS-232C: D-Sub 9pin x 1
Trigger Out	DC jack x 1, DC12 V/Max 200 mA
IR Control I/O Port	Input x 1, Output (Through) x 1
IR Sensors	2 Positions (Front & Back)
Power Consumption	375 W (Standby: 0.1 W)
Dimensions (W x H x D)	495 x 189.5 x 465.4 mm; 19-1/2" x 7-7/16" x 18-5/16"
Weight	13.8 kg; 30.4 lbs.

In addition to the Input A and Input B (Component Video and RGB signal) terminals, the DPX-1100 rear panel offers an HDMI input terminal, composite video input terminals, D4 video input terminal, remote in/out terminal, and RS-232C and Trigger out (12V/200mA) terminals.

DPX-1100 Throw Distance List

4:3 Screen			◀16:9 Image		◀4:3 Image	
Screen Size (inch)	Size (cm)		Distance L (m)		Distance L (m)	
	Width	Height	Wide	Tele	Wide	Tele
30	61.0	45.7	0.78	1.29	1.05	1.72
40	81.3	61.0	1.07	1.74	1.42	2.32
60	121.9	91.4	1.63	2.64	2.17	3.52
70	142.2	106.7	1.91	3.09	2.55	4.12
80	162.6	121.9	2.19	3.54	2.93	4.72
90	182.9	137.2	2.48	3.99	3.30	5.32
100	203.2	152.4	2.76	4.44	3.68	5.92
110	223.5	167.6	3.04	4.89	4.05	6.52
120	243.8	182.9	3.32	5.34	4.43	7.12
130	264.2	198.1	3.60	5.79	4.80	7.72
150	304.8	228.6	4.17	6.69	5.56	8.92
170	345.4	259.1	4.73	7.56	6.31	10.12
200	406.4	304.8	5.58	8.94	7.43	11.92
230	467.4	350.5	6.42	10.29	8.56	13.72
300	609.6	457.2	8.36	13.44	11.19	17.91

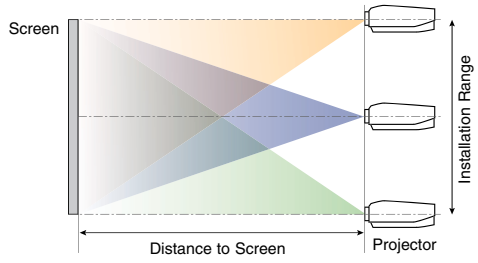
16:9 Screen					Offset (cm)	
Screen Size (inch)	Size (cm)		Distance L (m)			
	Width	Height	Wide	Tele	Min.	Max
30	66.4	37.4	0.86	1.41	-37.4	0.0
40	88.6	49.8	1.16	1.90	-49.8	0.0
60	132.8	74.7	1.78	2.88	-74.7	0.0
70	155.0	87.2	2.08	3.37	-87.2	0.0
80	177.1	99.6	2.39	3.86	-99.6	0.0
90	199.2	112.1	2.70	4.35	-112.1	0.0
100	221.4	124.5	3.00	4.84	-124.5	0.0
110	243.5	137.0	3.31	5.33	-137.0	0.0
120	265.7	149.4	3.62	5.82	-149.4	0.0
130	287.8	161.9	3.93	6.31	-161.9	0.0
150	332.1	186.8	4.54	7.29	-186.8	0.0
170	376.3	211.7	5.15	8.27	-211.7	0.0
200	442.8	249.1	6.07	9.74	-249.1	0.0
230	509.2	286.4	7.00	11.21	-286.4	0.0
300	664.1	373.6	9.14	14.64	-373.6	0.0

4:3 Screen						
Screen Size (inch)	Size (inch)		Distance (feet)		Distance L (feet)	
	Width	Height	Wide	Tele	Wide	Tele
30	24	18	2.58	4.24	3.43	5.65
40	32	24	3.50	5.71	4.67	7.62
60	48	36	5.35	8.67	7.13	11.55
70	56	42	6.27	10.14	8.36	13.52
80	64	48	7.20	11.62	9.60	15.49
90	72	54	8.12	13.09	10.83	17.46
100	80	60	9.05	14.57	12.06	19.42
110	88	66	9.97	16.04	13.30	21.39
120	96	72	10.90	17.52	14.53	23.36
130	104	78	11.82	18.99	15.75	25.33
150	120	90	13.67	21.95	18.23	29.26
170	136	102	15.52	24.90	20.69	33.20
200	160	120	18.29	29.32	24.39	39.10
230	184	138	21.07	33.75	28.09	45.00
300	240	180	27.54	44.08	36.72	58.77

16:9 Screen					Offset (inch)	
Screen Size (inch)	Size (inch)		Distance (feet)			
	Width	Height	Wide	Tele	Min.	Max
30	26.1	14.7	2.81	4.62	-14.7	0
40	34.9	19.6	3.81	6.23	-19.6	0
60	52.3	29.4	5.83	9.44	-29.4	0
70	61.0	34.3	6.83	11.05	-34.3	0
80	69.7	39.2	7.84	12.66	-39.2	0
90	78.4	44.1	88.5	14.26	-44.1	0
100	87.2	49.0	9.86	15.87	-49.0	0
110	95.9	53.9	10.86	17.48	-53.9	0
120	104.6	58.8	11.87	19.09	-58.8	0
130	113.3	63.7	12.88	20.69	-63.7	0
150	130.7	73.5	14.89	23.91	-73.5	0
170	148.2	83.3	16.91	27.12	-83.3	0
200	174.3	98.1	19.93	31.95	-98.1	0
230	200.5	112.8	22.95	36.77	-112.8	0
300	261.5	147.1	30.00	48.02	-147.1	0

* Distance L (m): Screen Surface to Lens Center ** Offset: Lower Edge of Image to Lens Center

Installations



Accessories

PMT-H35: Optional installation brackets for high ceiling

PMT-L31: Optional installation brackets for low ceiling

PJL-427: Optional lamp cartridge

For details please contact:

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YAMAHA

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