

Bid Spec

1.0 Description

The projector shall be SXGA+ resolution. It should use LCOS technology with high contrast and high brightness. . Projector shall have seamless image with high uniformity. It must include power zoom and power focus. Lens should be of short throw - 100 inch diagonal screen at less than 10 feet.

2.0 Bid Specification

Technology:

- a. The projector must use the LCOS technology and incorporate AISYS system.
- b. The projector must have a native resolution of SXGA+ (1400 x 1050).
- c. The projector must support WXGA (for wide screen use).
- d. The projector's brightness must be 4000 lumens with contrast of 1000:1.
- e. The projector lens must have a wide angle (100 inch diagonal screen at less than 10 feet).
- f. The projector must have a built in powered optical zoom lens of 1.7 times.
- g. The projector's pixel aperture must be 90% or higher.
- h. The projector's uniformity must be 85% or higher.

Image Adjustments

- a. The projector must have a Photo Mode.
- b. The projector must have color temperature adjustment.
- c. The projector must have color level adjustment.
- d. The projector must have Adobe RGB and sRGB color space.
- e. The projector must have automatic keystone correction of ± 20 degrees vertically.
- f. The projector must have manual keystone correction of ± 20 degrees horizontally.
- g. The projector must have the ability to be placed in a vertical position with the lens pointing up or down.

AC Lamp

- a. The projector must have an AC Lamp to increase illumination effect.
- b. The AC lamp must increase the operating life of a projector's lamp.

User Friendly Features:

- a. The projector must have auto input detection.
- b. The projector must have auto focus.
- c. The projector must have auto vertical keystone.
- d. The projector must have auto wall color correction.
- e. The projector must have internal charging unit to run fan for time period adequate to cool lamp when power has been removed from projector.

Inputs and Outputs:

- a. The projector must have one DVI input.
- b. The projector must have ability to accept 2 VGA inputs.
- c. The projector must have one VGA output to drive external monitor or other display device.
- d. The projector must have three audio input sources that switch automatically to match the image signal's input source.
- e. The projector must have a variable audio output terminal for connection to external audio devices making it easy to control sound levels from the projector's remote control unit.
- f. The projector must have component input.
- g. The projector must have s-video input.
- h. The projector must have composite video input.
- i. The projector must have a USB port for mouse control through the IR remote.

Power Management

- a. The projector must have an internal condenser to run the fan making it possible
 - To unplug the projector as soon as it is turned off.
 - To prevent damage to the projector and lamp in case of accidental power lost.

Control Management

- a. The projector must have RS-232C serial control port to be used with control systems.
- b. The projector must have an IR sensor in the front and rear for remote control capability.

Control System Compatibility

- a. The projector must be certified to be used with AMX, Crestron and Extron systems.

Ratings:

- a. The projector must be powered by 100V to 240V/ 50/60Hz.
- b. The projector must weight less than 11 pounds.
- c. The Projector's noise level must not exceed 35dB in brighter mode.

Warranty

- a. The projector must have a 3 year warranty on parts and labor.
- b. The projector's lamp warranty must be 120 days.

Specifications

Basic	Imaging Device		0.7" Reflective LCD Panels (LCOS) x 3
	Aspect Ratio		4:3 Ratio
	Native Resolution		SXGA+
	Brightness		4000 Lumens
	Uniformity		88%
	Contrast		1000:1
	Keystone		Vertical ± 20 degrees (Auto/Manual) Horizontal ± 20 degrees (Manual)
Optics	Projection Lens		F1.85 - 2.5, f=21.7 - 35.8 mm
	Lens Offset		9:1, Fixed
	Zoom		1.7x Powered, 12x Digital
	Focus		Powered (Auto/Manual)
	Screen Size		40" - 300"
	Projection Distance Coverage		3.9 - 29.5 ft.
	Throw Ratio		1.46 - 2.43:1
Image Adjustments	Image Mode		Standard, Presentation, Movie, Photo, Adobe RGB, sRGB
	Color Adjust		Dynamic Gamma, 6-Axis(RGBCMY) Color Adjustment
	Wall Correction		Auto / Manual
	Mounting		Ceiling / Rear / Ceiling and Rear
	Tilt Angle		Adjusting feet up to 10 degrees
Input Signals	Digital PC Input		SXGA+/SXGA/WXGA/XGA/SVGA/VGA
	Scanning Frequency		H:15 ~ 100 kHz, V:50 ~ 100Hz, Dot clock: 170 MHz or less
	Analog PC Input		UXGA/SXGA+/SXGA/WXGA/XGA/SVGA/VGA
	Scanning Frequency		H:15 ~ 100 kHz , V:50 ~ 100 Hz Dot clock: 170 MHz or less
	Video/S-video Input		NTSC / PAL / SECAM / NTSC4.43 / PAL-M / PAL-N
	Component Input		1080i/1035i/720p/576p/576i/480p/480i
	Digital Video Input		1080i/720p/576p/480p
Terminals	Inputs	DVI-I 29pin	Digital PC input / Analog PC input / Digital video input
		D-sub 15pin	Analog RGB / Component Video Input
		RCA	Video Input
		Mini DIN 4pin	S-Video input
		Stereo mini-jack	Stereo audio input x3
	Outputs	D-sub 15pin	Analog PC out
		Stereo mini-jack	Stereo audio output x1
	Control	RS-232	D-sub 9pin
		RJ-45	N/A
	Built-in Speaker		1W (Mono)
Lamp	Type		275W NSH (AC)
	Life (Quiet/Normal)		2000/3000 Hours
Remote Control	Sensor		Wireless Infrared, Front / Back
	Mouse Control		Mouse Control Receiver (USB)
Ratings	Fan Noise (Normal / Quiet)		35/31dB
	Power	Consumption (Normal / Quiet / Stand-by)	360W (normal) / 290W (quiet) / 7W (stand-by)
		Voltage	AC 100 ~ 240V, 50/60Hz
	Temperature	Operating	41 to 95 F (5 to 35 C)
		Storage	-22 to 104 F (-30 to 60 C), 5%RH ~ 90%RH
	Dimensions (W x D x H)		10.5" x 13.2" x 4.5" (226 x 336 x 114mm)
	Weight		10.6 lbs (4.8 kg)
	Warranty		3 years parts and labor, 120 day warranty