Vision™ Model 120
DLP™ Home Theater Projector

THX

The new Vision™ Model 120 provides today's highest available resolution—1080p, in a 3-chip DLP™ configuration. It has earned the world's first THX* video product certification, having been specifically engineered to the demanding THX standards.

The Vision™ Model 120 features our proprietary Imagix™ video processing in a separate outboard controller/processor. This advanced digital video processor produces artifact free scaling of all video sources — bringing HD images to the projector's native 1920 x 1080 resolution, while providing near-high definition image quality from even standard video sources — a hallmark of Vidikron's remarkable Imagix™ algorithms.

Installers will appreciate the Vision™ Model 120's wide range of precision lens choices to accommodate the most challenging installations, all with generous motorized horizontal and vertical electronic lens shift capabilities. The projector features discrete input source selection, multiple component and HDMI™ digital video interfaces, discrete IntelliWide™ aspect ratio control, 12V triggers plus RS-232 control for seamless integration with today's latest home automation platforms.

Vidikron's revolutionary, award-winning CineWide™ and CineWide™ with AutoScope™ options eliminate useless black bars, filling your entire screen with ultra high resolution excitement when viewing movies filmed in the 2.35:1 aspect ratio.

Vidikron®
Going Beyond Home Theater™

Specifications	Vision™ Model 120
Projector Type:	Digital Light Processing™ (DLP™), 3-chip, 16:9 DMD's™
Native Resolution:	1920 x 1080 (16:9)
Aspect Ratio:	See Controller Specs
Video Standards:	See Controller Specs
DTV Compatibility:	480p, 720p, 1080i, 1080p
Picture Size (16:9 Screen):	Recommended Width: 80 – 180 in. Maximum Width: 250 in.
Throw Distance (Factor x Screen Width):	Lens Option A-1: Fixed .70 (for rear screen applications) Lens Option A-2: Fixed .1.155 (for rear screen applications) Lens Option B: Zoom 1.42–1.79 Lens Option C: Zoom 1.86–2.51 (with CineWide 1.42 to 1.88 with 2.35:1 screen) Lens Option D: Zoom 2.59–4.19 (with CineWide 1.91 to 3.13 with 2.35:1 screen) Lens Option E: Zoom 4.32–6.98 (with CineWide 3.15 to 5.48 with 2.35:1 screen)
Horizontal and Vertical Offset: **(For Zoom Lenses. To obtain fixed lens offsets contact Vidikron technical support)**	Horizontal: +/- 12 to 13% Vertical: 28% to 32% above center of screen; 61% to 65% below center of screen (Lens options B to E with ceiling mount. Vertical specifications are with horizontal shift at center. Horizontal specifications are with no vertical shift used. Amount of available shift varies per lens. Contact Vidikron technical support for installation details.)
Light Output:	CSMS™* Specifications: Home Theater Calibration: 1380 ANSI Lumens; 58.3 Foot-Lamberts (fL). 2825 ANSI Lumens
Contrast Ratio:	CSMS* Contrast Ratio: 320:1; 4000:1 ANSI
Lamp:	300 Watts
Estimated Lamp Life:	2000 hours
Inputs (from VHD controller):	(1) HDMI; (1) RS-232
Power Requirements:	100 – 240V AC, 50/60 Hz, 550 W
Operating Environment:	40° – 95° F, (5° – 35° C), 0% – 90% Humidity (non-condensing)
Dimensions (w/o feet):	Width: 23 5/8 in. (599.69 mm) Depth: 30 5/16 in. (769.87 mm) Height: 12 3/32 in. (306.83 mm) Weight: 102 lbs. (46.27 kg)
Regulatory Approvals:	Complies with FCC Class B, CE, C-Tick
Limited Warranty:	Projector: Two (2) years parts and labor from the date of delivery to the end user. Lamp Warranty: 1000 hours or six (6) months, whichever comes first.

	VHD Controller/Processor
Aspect Ratios:	4:3, Letterbox, 16:9, IntelliWide, Cinema, IntelliWide 2.35
Video Standards:	NTSC, PAL, ATSC
Inputs:	(1) Composite; (1) S-Video; (1) VGA; (2) HD (1 each RCA, BNC) - R (Pr), G (Y), B (Pb), H, V; (2) HDMI w/HDCP
Outputs:	DVI with HDCP
Control Options:	Discrete infrared remote, (1) RS-232 (9-pin Connector)
RS-232 Communication Parameters:	19200 bps, no parity, 8 data bits, 1 stop bit, no flow control
Screen Trigger/Masking Outputs:	(3) +12 VDC, each rated at 750 mA and thermal fuse-protected
Bandwidth:	150 Mega Samples per Second (MSPS)
Power Requirements:	100 to 240 VAC (auto-sensing), 50/60 Hz, 160 Watts
Operating Environment:	40°F to 95°F (5°C to 35°C), 0% to 90% humidity (non-condensing)
Dimensions:	Width: 17.50 inches (444.5 mm) Depth: 11.19 inches (284.1 mm) Height: 3.75 inches (95.3 mm) Weight: 13.0 lbs. (5.90 kg)
Regulatory Approvals:	FCC, CE, C-Tick
Limited Warranty:	(2) years parts and labor from the date of delivery to the end user

CineWide™ and CineWide with AutoScope™

Until now, viewing movies presented in the CinemaScope™ 2.35:1 format has meant the presence of useless black bars on the top and bottom of your screen. It has also meant a possible loss of resolution because widescreen digital imaging chips are in the 16:9 widescreen aspect ratio, not nearly as wide as 2.35:1.

Through the magic of our award winning CineWide and CineWide with AutoScope technology and the use of an appropriate screen, constant vertical height is maintained, filling the entire screen area. When you transition from a standard 16:9 (1.78:1) widescreen aspect ratio to 2.35:1 Cinema, the picture simply gets wider—really wide, just as you would experience in a quality cinema.

While CineWide provides a fixed anamorphic lens, with the AutoScope option the anamorphic lens in motorized and remote controlled.

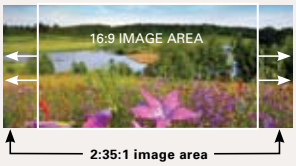
Conventional Method

A conventional 2.35:1 image displayed on a 1.78:1 (16:9) screen.

Black bars = lost resolution

CineWide™ Technology

Constant Vertical height and full resolution are maintained. 100% of pixels are used. Black bars are eliminated.



How it works:

The video processor anamorphically "stretches" the 2.35:1 image vertically to completely fill the display's imaging chip's. This allows all pixels to be used.

2.35:1 Image on a 16:9 imaging chip

16:9 Image Area

The anamorphic lens then "stretches" the image width to 2.35:1. Correct geometry is restored, while 100% of the pixels are now used to maintain full resolution and eliminate black bars.

CineWide and CineWide with AutoScope requires the use of a 2.35:1 or similar aspect ratio superwide screen.

IMAGIX DIGITAL VIDEO

CINEWIDE™

isf® Engineered for ISF® calibration.

Installer Dependent

THX

Vidikron® Going Beyond Home Theater™

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*THX certification is pending final testing and approval by THX, Ltd.

**Cinema Standards Measurement System. See www.vidikron.com for more details. Specifications are subject to change without notice. Optional ceiling mount available.

Theater installation courtesy of NXT Generation, Sammamish, WA