



# P12 LTW laser projector

Touch—it's the way the real world works. Now it can be the way your interactive classroom works, too. Touch to draw. Touch to write. Touch to move, scale, and rotate. With up to 10 users working at the same time. All this, plus the reliability of lasers, which means no bulbs to change—ever.

“[P12 LTW] provides educators with an easy-to-use, all-in-one solution that effectively delivers collaborative classroom instruction and meets all my students' needs.”

**Lynn Reedy**  
Technology Specialist

What could be more natural than touch?

It's the new standard for smartphones and tablets. It's second nature to today's students, so touch requires almost no training.

The P12 LTW ultra-short-throw projector brings collaborative, 10-touch interactivity\* to your classrooms, with images as large as 115 inches!

Its laser illumination saves you time and resources. There's no lamp to fail, no lamp to change. And there's a 20-year laser life span.\*\*

- A full-featured hardware and software solution.
- Comes with easy-to-learn and easy-to-use MimioStudio™

classroom software and the MimioMobile™ app.

- Software and app enable collaboration and assessment either at the front of room or on almost any student device.
- A solution that makes it easy to gauge and personalize student learning.
- Laser projection means no bulbs to change — ever.
- Analog and digital audio/video connections ensure compatibility with virtually any PC.
- Runs on Mac, Windows, and Linux.
- Ethernet LAN connectivity, for central management and control.



Up to ten students can work together at the front of the classroom, with touch interactivity.

To learn more, call 360.464.2119.

\* Also available as a pen-only and non-interactive option.

\*\* Defined as a typical school year of 200 days with 5 hours of use per day.

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# Key Features

## Package Contents



**P12 LTW laser touch-interactive projector** - Projector, AC power cord (4m), HDMI cable (5m), remote control with battery, mini-USB cable (5m), 2 magnetic static pens, laser curtain module, DC power cable for laser curtain, and MimioStudio software license.

**P12 LIW laser pen-interactive projector** - Projector, AC power cord (4m), HDMI cable (5m), remote control with battery, mini-USB cable (5m), 2 IR pens, and MimioStudio software license.

**N12 LNW laser non-interactive projector** - Projector, AC power cord (4m), HDMI cable (5m), remote control with battery, and mini-USB cable (5m).

## Specifications

OS	Software Requirements	MimioStudio 11.6 or higher on a Windows, Mac, or Linux OS
Display	Brightness	3,700 lumens (2,600 eco)
	Light Source	Laser Diode x 23
	Laser Life (typical)	20,000 hours
	Native Aspect Ratio	16:10
	Native Resolution	WXGA 1280 x 800
	Image Size (diagonal)	85 in. - 115 in. (216 cm - 292 cm)
	Keystone Correction	Vertical: $\pm 5^\circ$
	Contrast Ratio (typical)	1,800:1 (10,000:1 high contrast)
	Color Reproduction	1.07 billion colors (R/G/B 10 bit)
	Color Uniformity	$\Delta u^*v^* \leq 0.03$
	Projection Lens	f/2.4
	Throw Ratio	Ultra-short throw of 0.27
	Focus Type	Manual
	Projection Technology	Digital Light Processing (DLP), utilizing a 6-segment color wheel.
Audio/Video Connections	Closed Captioning	Based on TI DDP4421 spec, CC1/CC2/CC3/CC4 supported
	3D	DLP Link 3D and HDMI 1.4a 3D
	Digital A/V Inputs	HDMI x 2
	Video Analog Inputs	- VGA x 1 - VGA in/out switched* x 1 - Composite x 1
	Video Analog Outputs	VGA in/out switched x 1
	Audio Analog Inputs	- Stereo line 3.5 mm x 1 - Stereo line RCA jacks x 1 - Mic level 3.5 mm x 1
Control	Audio Analog Outputs	Line out 3.5 mm x 1
	Speaker	1 speaker 10 W
	LAN	Standard using RJ-45 connector
Mech	LAN Control Protocols	Crestron
	Laser Curtain DC Power	3.5 mm
General	Mounting	Front or rear projection, wall, ceiling, or table mount**
	Security	Kensington Lock >20 kg
	Power Supply	AC 100 – 240 V 50-60 Hz
	Power Consumption (typical)	Normal mode: 330 W ECO mode: 210 W Standby: < 0.5 W Touch Mode***
	Operating Temperature	5 - 40° C (41 - 104° F) non-condensing
	Fan Noise	Full mode : 36dBA (typical) / 38dBA (maximum) ECO mode : 32dBA (typical) / 35dBA (maximum)

Interactivity****	Touch Points	10
	Calibration	Auto/Manual
	Laser Curtain Module	IR Laser 825 nm, 20,000 hrs
	Laser Curtain Power	12V/0.3A from projector
	Visible Laser Curtain Alignment	- Visible light 650 nm - Optical power < 0.39 mW - Dot size at focus point 10 mm
	Whiteboard Non-planarity	<3 mm
	Laser Safety	IEC 60825-1 Class-1
	Interactivity	USB Mini

\* One connector switchable between VGA in or out.

\*\* Ceiling and table mount require third-party bracket.

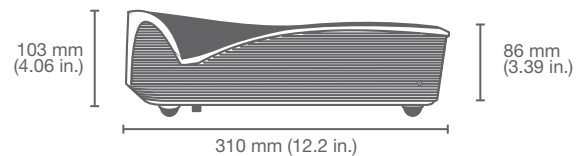
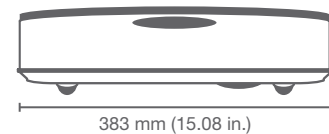
\*\*\* LAN/RS-232/VGA out are off.

\*\*\*\* Laser Curtain specifications only apply to touch model.

## Dimensions and Weight

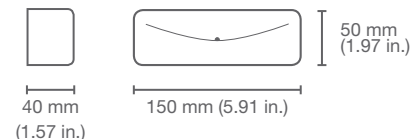
### Projector

Weight: 8 kg  
(17.6 lb)

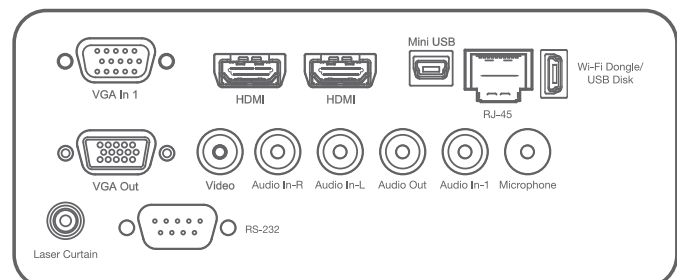


### Laser Curtain Module

Weight: .35 kg  
(.77 lb)



## Connections



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