



## Expand the Scope of Your Spatial Design with Zero Offset Ultra-Short-Throw Zoom Lenses for LCD Projectors

### ■ Main Features

#### 01 | Ultra-Short-Throw Versatility with Zero Offset

Deliver a 200-inch (16:10) image from 1.43 m (4.69 ft) with zero offset for immersive performance in confined spaces. Viewers can approach the screen without casting a shadow while mirrorless design supports unobstructed front-projection visibility and screen-centered rear-projection installation.

#### 02 | Flexibility Streamlines Installation Workflow

Optical zoom enhances projector location flexibility. Typically required installation precision is reduced with adjustment performed via powered zoom and V/H Lens-Shift\* after the projector is installed without needing to remove and relocate the unit, saving time and effort.

#### 03 | Durability for Peace of Mind

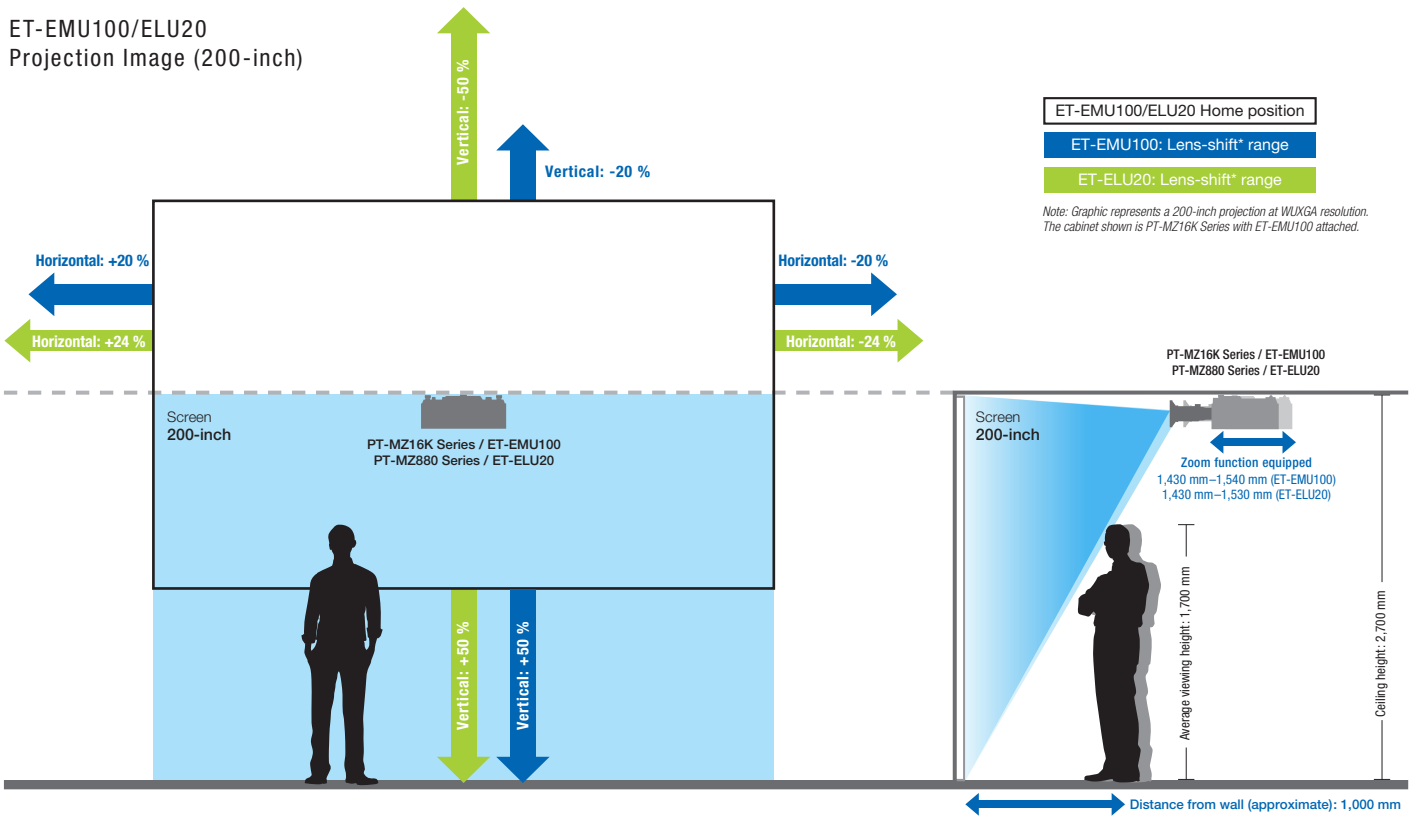
ET-ELU20's heat- and scratch-resistant glass lens reduces focus aberration from fluctuating lens temperature, keeping images sharp. ET-EMU100 supports AFO (Active Focus Optimizer) to maintain crisp focus regardless of content brightness.



	ET-EMU100	ET-ELU20
Application	Front- or Rear-Projection for Immersive Spatial Performance (Museum, Exhibition, Rental/Staging)	
Throw Ratio	0.330–0.353:1 (WUXGA)	
Compatible Projectors	PT-MZ16KL PT-MZ13KL PT-MZ10KL	PT-MZ880 PT-MZ780 PT-MZ680

Note: Use of ET-EMU100 is subject to specific installation and usage conditions. Consult your sales representative for details before purchase.

ET-EMU100/ELU20  
Projection Image (200-inch)



ET-EMU100/ELU20 Home position  
ET-EMU100: Lens-shift\* range  
ET-ELU20: Lens-shift\* range

Note: Graphic represents a 200-inch projection at WUXGA resolution. The cabinet shown is PT-MZ16K Series with ET-EMU100 attached.

Short Throw Reduces Screen Shadows

With short 0.330–0.353:1 (WUXGA) throw-ratio, both lenses support a minimum projection distance of about 1.43 m (4.69 ft) for a 200-inch (16:10) image. View the screen from close range without casting a shadow and breaking the spell woven by vivid LCD laser projection, even in hallways or other narrow spaces.

Save Time, Effort, and Cost of Installation

Powered zoom and V/H Lens Shift\* of V: +50 %, -20 %, H: ±20 % (ET-EMU100) and V: ±50 %, H: ±24 % (ET-ELU20) save time and effort by reducing typically required installation precision, enabling flexible image adjustment after the projector is installed with no need to remove and relocate the unit.

Specifications

Model	ET-EMU100	ET-ELU20
Lens type	Ultra-Short-Throw Zoom Lens	
F value	1.9	2.0
Focal length	(f) 7.23–7.73 mm (9/32"–5/16")	(f) 5.43–5.82 mm (7/32"–15/64")
Screen size	100–400 inches (9/32"–5/16")	100–400 inches
Throw ratio (WUXGA)	0.330–0.353:1	0.330–0.353:1
Lens-shift* (Powered)	Vertical: +50 % – -20 % Horizontal: ±20 %	Vertical: ±50 % Horizontal: ±24 %
Zoom	x1.07	x1.07
Dimensions (W x H x D)	200 x 200 x 509 mm (7 7/8" x 7 7/8" x 20 1/32")	170 x 170 x 449 mm (6 11/16" x 6 11/16" x 17 11/16")
Weight	Approx. 7.2 kg (15.87 lbs)	Approx. 4.0 kg (8.82 lbs)
Compatible projectors	PT-MZ16KL PT-MZ13KL PT-MZ10KL	PT-MZ880 PT-MZ780 PT-MZ680

Note: Use of ET-EMU100 is subject to specific installation and usage conditions. Consult your sales representative for details before purchase.

\* Lens-shift value is for ceiling installations at WUXGA resolution and will vary by model. For floor installations, up and right shift will be defined as a positive value. Down and left shift will be defined as a negative value.

Zero Screen-Offset Heightens Immersion

Zero offset eliminates the gap between image and ceiling for immersive floor-to-ceiling projection. Mirrorless design avoids lens overhang for a clear view of the screen without recessing the projector, while screen-centered location in rear-projection applications evenly distributes brightness from image center to corners.

Durability for Peace of Mind

ET-ELU20 employs heat- and scratch-resistant glass lens while ET-EMU100 supports automatic focus correction via AFO (Active Focus Optimizer). With these features, both lenses can maintain sharp focus even as lens temperature fluctuates with changes in projected content.

Projection Distance

unit: meters (feet)

ET-EMU100/ELU20 (16:10 aspect ratio)				
Projection size (Diagonal)	Projection size (Height)	Projection size (Width)	Throw ratio (0.330–0.353:1)	
			min.	max.
100" / 2.54 m	1.346 (4.42)	2.154 (7.07)	0.70 (2.30)	0.75 (2.46)
120" / 3.05 m	1.615 (5.30)	2.585 (8.48)	0.84 (2.76)	0.91 (2.99)
150" / 3.81 m	2.019 (6.62)	3.231 (10.60)	1.06 (3.48)	1.14 (3.74)
200" / 5.08 m	2.692 (8.83)	4.308 (14.13)	1.43 (4.69)	1.54 (5.05) (EMU100) 1.53 (5.02) (ELU20)
250" / 6.35 m	3.365 (11.04)	5.385 (17.67)	1.79 (5.87)	1.93 (6.33)
300" / 7.62 m	4.039 (13.25)	6.462 (21.20)	2.16 (7.09)	2.32 (7.61)
350" / 8.89 m	4.712 (15.46)	7.539 (24.73)	2.52 (8.27)	2.71 (8.89)
400" / 10.16 m	5.385 (17.67)	8.616 (28.27)	2.89 (9.48) (EMU100) 2.88 (9.45) (ELU20)	3.11 (10.20) (EMU100) 3.10 (10.17) (ELU20)

Note: Throw-distance shown is for 16:10 aspect ratio only. Please see the Throw Distance Calculator to check values for other aspect ratios: <https://panasonic.net/cns/projector/calculator/t/dc/>.



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For more information about Panasonic projectors, please visit:  
Projector Global Website – <https://panasonic.net/cns/projector/>  
Facebook – [www.facebook.com/panasonicprojectoranddisplay](https://www.facebook.com/panasonicprojectoranddisplay)  
YouTube – [www.youtube.com/user/PanasonicProjector](https://www.youtube.com/user/PanasonicProjector)

All information included here is valid as of September 2021.

ET-EMU100/ELU20\_G2 Printed in Japan.