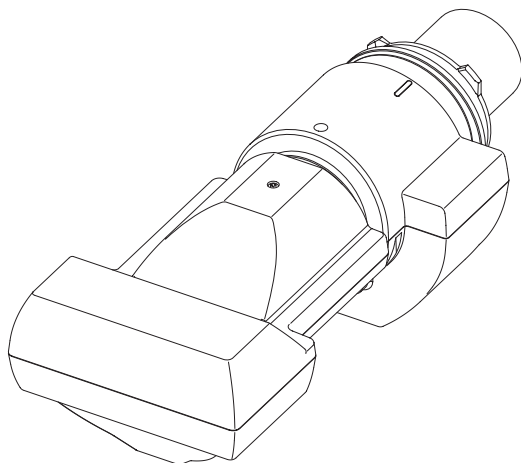


Panasonic[®]

Operating Instructions

Fixed-focus lens **Commercial Use**

Model No. **ET-C1U200**



ENGLISH

FRANÇAIS

日本語

Thank you for purchasing this Panasonic product.

- To ensure correct use of this lens, please read the operating instructions supplied with the lens and the projector carefully.
- **Before using this product, be sure to read “Read this first!” (➡ Page 3).**
- Please save this manual for future use.

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Projected image size and Projection distance	Appendix / Annexe / 付録 1
The “Appendix” can be found after the Japanese language section ().	

WARNING:

Do not look at or place your skin into the light emitted from the light projecting surface of the lens while the projector is being used.

Doing so can cause burns or loss of sight.

- Strong light is emitted from the light projecting surface of the lens. Do not look at or place your hands directly into this light.
- Turn off the power when moving away from the projection lens or projector.

Do not project an image with the protective film and the lens cover attached.

Do not place anything near the light projecting surface of the lens during use.

- Doing so can cause fire.

CAUTION:

Before replacing the projection lens, be sure to turn off the power and disconnect the power plug from the wall outlet.

- Unexpected projection of light may cause injury to eyes.
- Replacing the projection lens without removing the power plug may result in electric shock.

Do not shield the light by placing anything in front of the light projecting surface.

Doing so can cause fire, damage to the object, or malfunction of the lens and projector.

- Strong light is emitted from the light projecting surface of the lens.

Do not open the desiccant bag. Do not eat the contents.

Inadvertently ingesting desiccant could be harmful.

- If the desiccant gets into your eyes or mouth, immediately rinse with plenty of water and seek medical attention.
- Keep desiccant out of the reach of children.

Before Use

■ Supported projectors

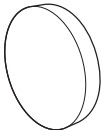
PT-REQ15 / PT-REQ12 / PT-REQ10 / PT-REQ80 / PT-REZ15 / PT-REZ12 / PT-REZ10 / PT-REZ80

Note

- This manual omits the alphabets at the end of projector model numbers.
- Models other than the above may also be supported. Refer to the operating instructions for your projector or the following website.
<https://docs.connect.panasonic.com/projector>

■ Supplied Accessories

Make sure that the following has been provided.

Part name	Appearance (quantity)
Lens cover	 ● The product is delivered with lens covers attached. Quantity: 1

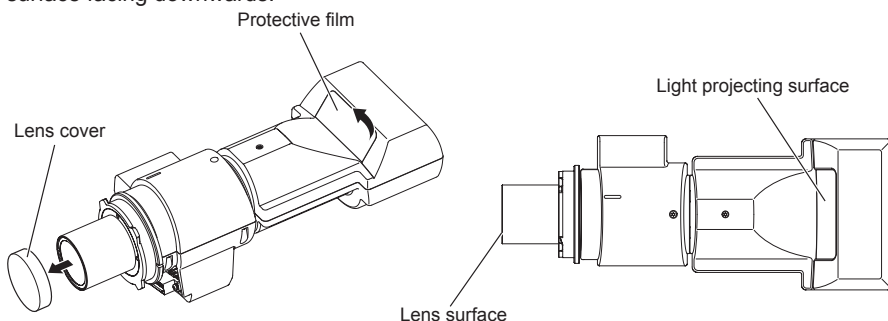
Preparation

Before replacing the projection lens

Return the projection lens to the home position before replacing or removing it. For details on how to return the lens to the home position, refer to the operating instructions of the projector.

Attention

- Make sure that the projector power supply is switched off before attaching or detaching the projection lens.
- After removing the projection lens, store it safely away from vibration or impacts.
- Do not touch the electric contact points of the projection lens with your fingers. Dust and dirt on the contacts may cause contact malfunctions, while static electricity may damage the unit.
- Before attaching the projection lens, remove the protective film from the light projecting surface and the lens cover from the lens.
- Be sure not to touch the light projecting surface or the surface of the lens. Any fingerprints or smudges on these surfaces will be magnified and lower the quality of the image displayed on the screen. Place the supplied lens cover on the zoom lens when the projector is not in use.
- The light projecting surface or lens may become damaged by hitting with a hard object or by wiping the front surface with excessive force. Handle with care.
- Use a clean, soft, and dry cloth to wipe away dust and dirt from the light projecting surface and projection lens. The lens is easily damaged, so do not apply excessive pressure when wiping it.
- When the projection lens is removed from the projector, place it with the light projecting surface facing downwards.



Preparation (continued)

Attaching the Lens

The illustrations in this procedure depict use of the PT-REQ15 as an example.

1) Align the protrusion mark on the projection lens with the protrusion mark on the main unit and insert it all the way (Fig. 1).

- Take care when inserting the lens not to damage the connector.

2) Turn the projection lens clockwise (Fig. 2).

- If you turn the projection lens until it clicks into place, it will not come out even if turned counterclockwise. After turning the projection lens clockwise, turn it counterclockwise to confirm that it does not come out.

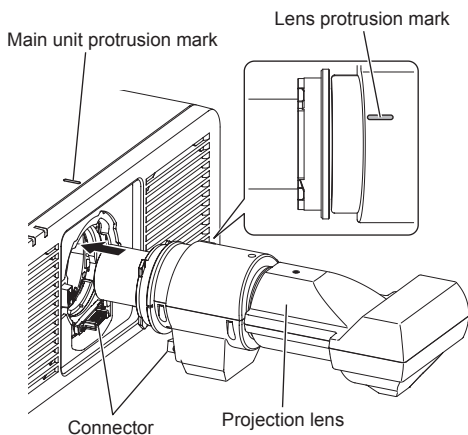


Fig. 1

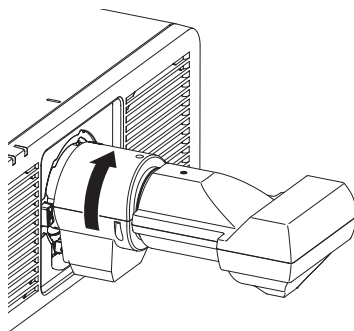


Fig. 2

Attention

- After attaching the projection lens, move the lens to the home position. For details on how to return the lens to the home position, refer to the operating instructions of the projector.

Preparation (continued)

Detaching the Lens

The illustrations in this procedure depict use of the PT-REQ15 as an example.

- 1) **While pressing the lens release button (i), turn the projection lens counterclockwise as far as it will go (ii) and then detach the projection lens (iii).**

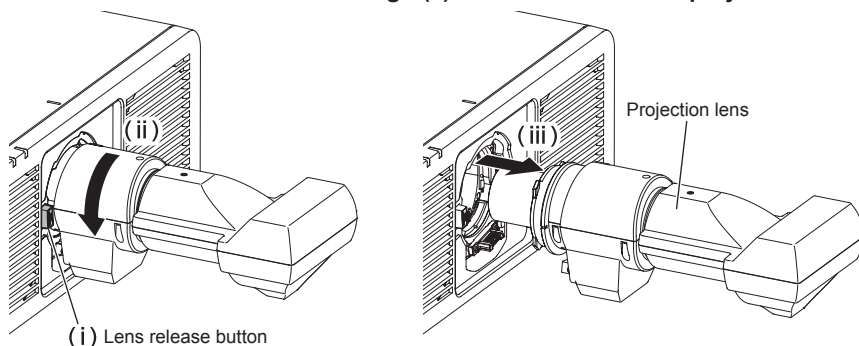


Image peripheral focus adjustment function

When you change the size of the projected image, the focal balance between the center and peripheral areas of the screen may shift.

This shift in focal balance tends to increase proportionally with smaller throw ratios.

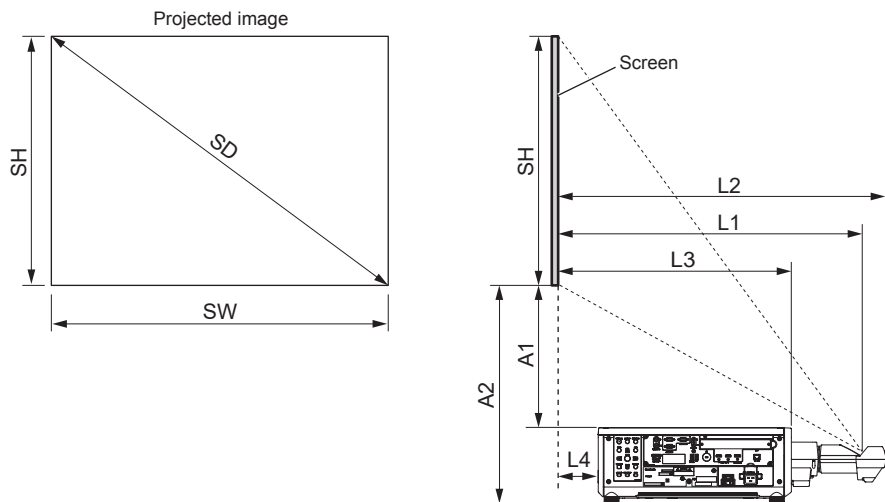
The ET-C1U200 is equipped with an image peripheral focus adjustment function to correct the shift in focal balance between the center and peripheral areas of the projected image.

For instructions on adjusting the peripheral focus, refer to “Projecting” in the operating instructions for the projector.

Projection relationships

The dimensional relationship between the screen and the projector is shown below.

■ Dimensional relationship diagram



Note

- This diagram assumes that the size and position of the projected image will be adjusted so that the image fills the entire screen.
- This illustration is not drawn to scale.

SH	Projected image height	L3	Screen to projector front end
SW	Projected image width	L4	Screen to projector rear end
SD	Diagonal length of the projected image	A1	Bottom edge of the screen to the top of the projector
L1	Projection distance (from screen to mirror reflective surface*)	A2	Bottom edge of the screen to the bottom of the projector
L2	Screen to lens front end		

* The mirror reflective surface is inside the fixed-focus lens, and is not visible from the outside.

Note

- The illustrations of projectors in this manual are for informational purposes only and do not represent a specific projector model. Configurations may vary with the model.
- Dimension L4 is the distance from the projector rear panel to the screen.
- Dimension A2 is the distance from the bottom edge of the screen to the bottom of the adjustable projector legs (with the legs fully screwed in).

Attention

- Dimension L4 is not the distance from the projector rear panel to a wall, but the distance from the projector rear panel to the screen. To prevent obstruction of the intake and exhaust vents, install the projector with a clearance from walls and objects. For details about the required distance from surrounding walls and objects, refer to the operating instructions for your projector. If you are installing the projector in a sealed space, be sure to provide additional air conditioning equipment and ventilation equipment. Insufficient ventilation will result in an accumulation of heat and may activate the projector's protection circuit.
- Avoid setting up in places which are subject to sudden temperature changes, such as near an air conditioner or lighting equipment (studio lamps, etc.).

Projection relationships (continued)

■ Dimensional relationship

For details on projection distance (L1), and A1, A2, L2, L3 and L4 values, refer to “Projected image size and Projection distance” or “Projection distance formulas” in the Appendix.

Note

- For details on “Projected image size and Projection distance” for projector models other than the following, refer to “Setting up” in the operating instructions of the projector.

PT-REQ15 / PT-REQ12 / PT-REQ10 / PT-REQ80 / PT-REZ15 / PT-REZ12 / PT-REZ10 / PT-REZ80

■ Keystone distortion correction

When attaching this lens for use, regardless of the projector model, set up the projector so that the projected image is rectangular and the back of the projector and the screen are parallel.

In addition, depending on the projector used, keystone distortion correction may be feasible after setup.

- When using one of PT-REQ15 / PT-REQ12 / PT-REQ10 / PT-REQ80 / PT-REZ15 / PT-REZ12 / PT-REZ10 / PT-REZ80

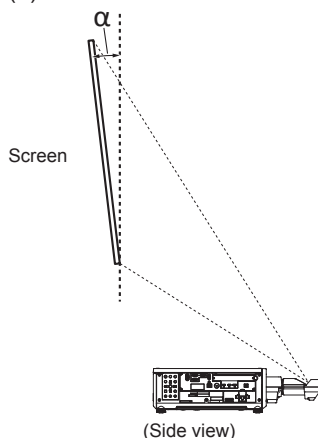
For keystone distortion in the vertical direction generated within the angle range below, select [MAIN MENU] → [POSITION] → [GEOMETRY] → [KEYSTONE] → [VERTICAL KEYSTONE] to perform correction.

Keystone distortion in the vertical direction greater than this angle and keystone distortion in the horizontal direction can be corrected but the projected image overall will no longer be in focus.

Note

- For the keystone distortion correction, when using a projector other than one listed above, please see “Setting up” in the operating instructions for the projector you are using.

Correction feasible angle (α): 0 - 5°



Lens shift ranges

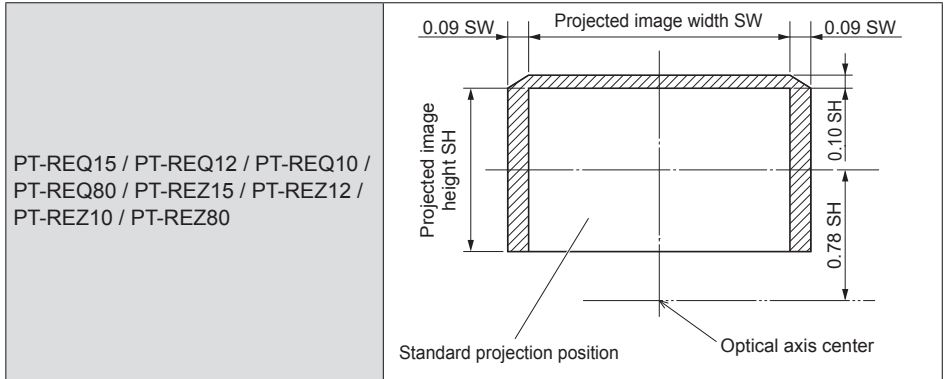
Perform the lens position shift within the adjustment range.

Perform lens shift adjustment within the ranges shown in the following illustrations.

The focus may change when the lens position is shifted out of the adjustment range.

This is because the movement of the lens is restricted to protect the optical parts.

Projection position can be adjusted with the optical axis shift based on the home position in the respective range.



Note

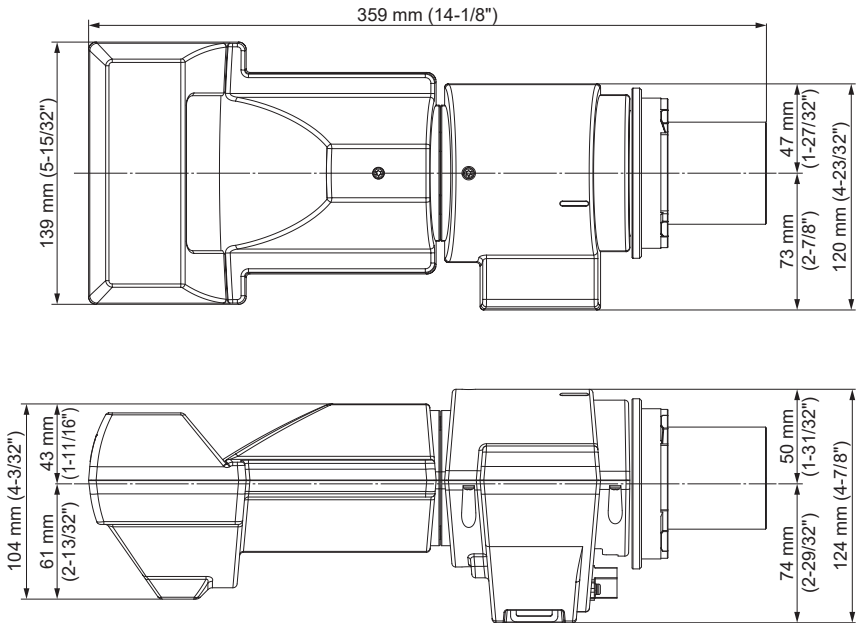
- The home position of the projector is a point of origin position for the lens shift (i.e., vertical and horizontal positions of the lens) based on the results of lens calibration. It is not the optical center position of the screen.

Specifications

F Number	2.0
Focal Length (f)	6.48 mm (1/4")
Dimensions	Width 139 mm (5-15/32") Height 124 mm (4-7/8") Depth 359 mm (14-1/8")
Net Weight	Approx. 2.2 kg (4.9 lb)

Dimensions

(Unit: mm)



■ Indication of the manufacturer and the importer with EU Directive requirements

English	Manufactured by: Panasonic Projector & Display Corporation 2-15 Matsuba-cho, Kadoma City, Osaka 571-8503, Japan Importer: Panasonic Connect Europe GmbH Hagenauer Strasse 43, 65203 Wiesbaden, Germany Authorized Representative in EU: Panasonic Connect Europe GmbH Panasonic Testing Centre Winsbergring 15, 22525 Hamburg, Germany
Български	Производител: Panasonic Projector & Display Corporation 2-15 Matsuba-cho, Kadoma City, Osaka 571-8503, Япония Вносител: Panasonic Connect Europe GmbH Hagenauer Strasse 43, 65203 Wiesbaden, Германия Упълномощен представител в ЕС: Panasonic Connect Europe GmbH Panasonic Testing Centre Winsbergring 15, 22525 Hamburg, Германия
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Hrvatski	Proizvodi: Panasonic Projector & Display Corporation 2-15 Matsuba-cho, Kadoma City, Osaka 571-8503, Japan Uvoznik: Panasonic Connect Europe GmbH Hagenauer Strasse 43, 65203 Wiesbaden, Njemačka Ovlašteni zastupnik u EU-u: Panasonic Connect Europe GmbH Panasonic Testing Centre Winsbergring 15, 22525 Hamburg, Njemačka
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Only for European Union and countries with recycling systems



This symbol on the products, packaging, and/or accompanying documents means that used electrical and electronic products must not be mixed with general household waste. For proper treatment, recovery and recycling of old products, please take them to applicable collection points in accordance with your national legislation.

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Product Information (for Turkey only)

AEEE Yönetmeliğine Uygundur.

Environment care information for users in China



This symbol is only valid in China.

Panasonic Projector & Display Corporation

Web Site : <https://docs.connect.panasonic.com/projector>

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SS0625AM0 -PS
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Appendix / Annexe / 付録

■ Projected image size and Projection distance ■ Taille de l'image projetée et distance de projection ■ 投写画面サイズと投写距離

Note

- When using projector models other than the following, refer to "Setting up" in the operating instructions of the projector. In addition, be sure to check the diagonal screen size SD (m), and use the "Projection distance formulas" ( Appendix page 5) to determine the projection distance (L).

PT-REQ15 / PT-REQ12 / PT-REQ10 / PT-REQ80 / PT-REZ15 / PT-REZ12 / PT-REZ10 / PT-REZ80

Remarque

- Lorsque vous utilisez des modèles de projecteur différents des modèles suivants, consultez "Installation" dans le mode d'emploi du projecteur. De plus, assurez-vous de vérifier la taille de l'écran en diagonale SD (m) et d'utiliser la "Formules de distance de projection" ( Annexe page 5) pour déterminer la distance de projection (L).

PT-REQ15 / PT-REQ12 / PT-REQ10 / PT-REQ80 / PT-REZ15 / PT-REZ12 / PT-REZ10 / PT-REZ80

お知らせ

- 下記以外のプロジェクターをご使用の場合は、プロジェクターの取扱説明書「設置する」をご覧ください。または、投写画面サイズ SD (m) をご確認のうえ、「投写距離計算式」( 付録 5 ページ) で投写距離 (L) を求めてください。

PT-REQ15J / PT-REQ12J / PT-REQ10J / PT-REZ15J / PT-REZ12J / PT-REZ10J / PT-REZ80J

The dimensions of the following table contain a slight error.

Periods are used to represent decimal points in the calculation formulas in the following table.

Les dimensions du tableau suivant peuvent présenter un léger écart.

Les points sont utilisés pour indiquer les décimales dans les formules de calcul dans le tableau suivant.

次の表内の寸法は若干の誤差があります。

Appendix / Annexe / 付録 (continued / suite / つづき)

- When the screen aspect ratio is 16:10
- Lorsque le rapport d'aspect de l'écran est 16:10
- 画面アスペクト比 16 : 10 のとき

(Unit / Unités / 単位 : m)

Throw ratio / Rapport de projection / スローレシオ : [0.380:1]								
SD	SH	SW	L1	L2	L3	L4	A1	A2
2.54 (100")	1.346	2.154	0.82	0.84	0.58	0.04	0.29 - 0.42	0.50 - 0.63
2.79 (110")	1.481	2.369	0.90	0.92	0.66	0.12	0.32 - 0.47	0.54 - 0.68
3.05 (120")	1.615	2.585	0.99	1.00	0.74	0.20	0.36 - 0.52	0.57 - 0.74
3.30 (130")	1.750	2.800	1.07	1.08	0.82	0.28	0.40 - 0.58	0.61 - 0.79
3.56 (140")	1.885	3.015	1.15	1.16	0.90	0.36	0.44 - 0.63	0.65 - 0.84
3.81 (150")	2.019	3.231	1.23	1.24	0.98	0.44	0.48 - 0.68	0.69 - 0.89
5.08 (200")	2.692	4.308	1.63	1.64	1.38	0.84	0.66 - 0.93	0.88 - 1.15
6.35 (250")	3.365	5.385	2.03	2.05	1.78	1.24	0.85 - 1.19	1.06 - 1.40
7.62 (300")	4.039	6.462	2.43	2.45	2.18	1.65	1.04 - 1.44	1.25 - 1.66
8.89 (350")	4.712	7.539	2.83	2.85	2.59	2.05	1.23 - 1.70	1.44 - 1.91
10.16 (400")	5.385	8.616	3.24	3.25	2.99	2.45	1.42 - 1.96	1.63 - 2.17
12.70 (500")	6.731	10.770	4.04	4.06	3.79	3.25	1.79 - 2.47	2.01 - 2.68

- When the screen aspect ratio is 16:9
- Lorsque le rapport d'aspect de l'écran est 16:9
- 画面アスペクト比 16 : 9 のとき

(Unit / Unités / 単位 : m)

Throw ratio / Rapport de projection / スローレシオ : [0.379:1]								
SD	SH	SW	L1	L2	L3	L4	A1	A2
2.54 (100")	1.245	2.214	0.85	0.86	0.60	0.06	0.37 - 0.50	0.58 - 0.72
2.79 (110")	1.370	2.435	0.93	0.95	0.68	0.14	0.41 - 0.56	0.62 - 0.78
3.05 (120")	1.494	2.657	1.01	1.03	0.76	0.23	0.46 - 0.62	0.67 - 0.84
3.30 (130")	1.619	2.878	1.09	1.11	0.85	0.31	0.50 - 0.68	0.72 - 0.90
3.56 (140")	1.743	3.099	1.18	1.19	0.93	0.39	0.55 - 0.74	0.76 - 0.95
3.81 (150")	1.868	3.321	1.26	1.28	1.01	0.47	0.59 - 0.80	0.81 - 1.01
5.08 (200")	2.491	4.428	1.67	1.69	1.43	0.89	0.82 - 1.10	1.04 - 1.31
6.35 (250")	3.113	5.535	2.09	2.10	1.84	1.30	1.05 - 1.40	1.26 - 1.61
7.62 (300")	3.736	6.641	2.50	2.52	2.25	1.71	1.28 - 1.69	1.49 - 1.91
8.89 (350")	4.358	7.748	2.91	2.93	2.66	2.13	1.51 - 1.99	1.72 - 2.20
10.16 (400")	4.981	8.855	3.33	3.34	3.08	2.54	1.74 - 2.29	1.95 - 2.50
12.70 (500")	6.226	11.069	4.15	4.17	3.90	3.37	2.19 - 2.88	2.40 - 3.10

Appendix / Annexe / 付録 (continued / suite / つづき)

- When the screen aspect ratio is 4:3
- Lorsque le rapport d'aspect de l'écran est 4:3
- 画面アスペクト比 4 : 3 のとき

(Unit / Unités / 単位 : m)

Throw ratio / Rapport de projection / スローレシオ : [0.455:1]								
SD	SH	SW	L1	L2	L3	L4	A1	A2
2.54 (100")	1.524	2.032	0.93	0.95	0.68	0.14	0.34 - 0.49	0.55 - 0.70
2.79 (110")	1.676	2.235	1.02	1.04	0.77	0.24	0.38 - 0.55	0.59 - 0.76
3.05 (120")	1.829	2.438	1.11	1.13	0.86	0.33	0.42 - 0.60	0.63 - 0.82
3.30 (130")	1.981	2.642	1.20	1.22	0.96	0.42	0.46 - 0.66	0.68 - 0.87
3.56 (140")	2.134	2.845	1.29	1.31	1.05	0.51	0.51 - 0.72	0.72 - 0.93
3.81 (150")	2.286	3.048	1.39	1.40	1.14	0.60	0.55 - 0.78	0.76 - 0.99
5.08 (200")	3.048	4.064	1.84	1.86	1.59	1.06	0.76 - 1.07	0.98 - 1.28
6.35 (250")	3.810	5.080	2.30	2.31	2.05	1.51	0.98 - 1.36	1.19 - 1.57
7.62 (300")	4.572	6.096	2.75	2.77	2.50	1.97	1.19 - 1.65	1.40 - 1.86
8.89 (350")	5.334	7.112	3.21	3.22	2.96	2.42	1.40 - 1.94	1.62 - 2.15
10.16 (400")	6.096	8.128	3.66	3.68	3.41	2.88	1.62 - 2.23	1.83 - 2.44
12.70 (500")	7.620	10.160	4.57	4.59	4.32	3.79	2.04 - 2.81	2.26 - 3.02

- When the screen aspect ratio is 21:9
- Lorsque le rapport d'aspect de l'écran est 21:9
- 画面アスペクト比 21 : 9 のとき

(Unit / Unités / 単位 : m)

Throw ratio / Rapport de projection / スローレシオ : [0.379:1]								
SD	SH	SW	L1	L2	L3	L4	A1	A2
2.54 (100")	0.987	2.340	0.89	0.91	0.65	0.11	0.56 - 0.70	0.77 - 0.92
2.79 (110")	1.086	2.574	0.98	1.00	0.73	0.20	0.62 - 0.78	0.83 - 0.99
3.05 (120")	1.185	2.808	1.07	1.09	0.82	0.28	0.69 - 0.86	0.90 - 1.07
3.30 (130")	1.283	3.042	1.16	1.17	0.91	0.37	0.75 - 0.94	0.96 - 1.15
3.56 (140")	1.382	3.276	1.24	1.26	1.00	0.46	0.82 - 1.02	1.03 - 1.23
3.81 (150")	1.481	3.510	1.33	1.35	1.08	0.55	0.88 - 1.10	1.09 - 1.31
5.08 (200")	1.975	4.681	1.77	1.78	1.52	0.98	1.20 - 1.50	1.42 - 1.71
6.35 (250")	2.468	5.851	2.20	2.22	1.96	1.42	1.53 - 1.89	1.74 - 2.11
7.62 (300")	2.962	7.021	2.64	2.66	2.39	1.86	1.85 - 2.29	2.06 - 2.50
8.89 (350")	3.456	8.191	3.08	3.09	2.83	2.29	2.18 - 2.69	2.39 - 2.90
10.16 (400")	3.949	9.361	3.51	3.53	3.27	2.73	2.50 - 3.08	2.71 - 3.30
12.70 (500")	4.936	11.701	4.39	4.40	4.14	3.60	3.15 - 3.88	3.36 - 4.09

Note

- A ± 5 % error in listed projection distances may occur.
When [GEOMETRY] is used, distance is corrected to become smaller than the specified image size.
- The throw ratio is based on the value during projection with the projected image size of 3.81 m (150").

Remarque

- Une erreur de ± 5 % dans des distances de projection énumérées peut se produire.
Lorsque [GÉOMÉTRIE] est utilisé, la distance est corrigée pour devenir inférieure à la taille d'image spécifiée.
- Le rapport de projection est basé sur la valeur en cours de projection avec une taille de l'image projetée de 3,81 m (150").

お知らせ

- 記載の投写距離は ± 5 % の誤差が発生します。
また、[幾何学歪補正] 使用時は、所定の画面サイズよりも小さくなる方向で補正されます。
- スローレシオは、投写画面サイズ 150 型投写時の値を基準にしています。

- Projection distance formulas
- Formules de distance de projection
- 投写距離計算式

If you are using a screen size not listed in these Operating Instructions, measure the projection screen size SD (m). Then use the calculation methods provided to determine projection distance (L1).

Establishing dimensions L1 allows you to calculate dimensions L2, L3 and L4.

For the dimensions A1 and A2, measure the projection screen height SH (m). Then use the calculation methods provided to determine the values.

Values obtained by the following calculation formulae contain a slight error.

Periods are used to represent decimal points in the calculation formulas in the following table.

Si vous utilisez une taille d'écran n'apparaissant pas dans la liste de ce mode d'emploi, mesurez la taille de l'écran de projection SD (m). Utilisez ensuite les méthodes de calcul fournies pour déterminer la distance de projection (L1). Établir la dimension L1 vous permet de calculer les dimensions L2, L3 et L4.

Pour les dimensions A1 et A2, mesurez la hauteur de l'écran de projection SH (m). Utilisez ensuite les méthodes de calcul fournies pour déterminer les valeurs.

Les valeurs obtenues par les formules de calcul suivantes contiennent une légère erreur.

Les points sont utilisés pour indiquer les décimales dans les formules de calcul dans le tableau suivant.

本書に記載のない画面サイズでご利用の場合は、投写画面サイズ SD (m) をご確認のうえ、それぞれの計算式で投写距離 (L1) を求めてください。

また、L1 を求めることで、L2、L3、L4 の寸法についても計算することができます。

A1、A2 の寸法については、投写画面高さ SH (m) をご確認のうえ、それぞれの計算式で値を求めてください。下記の計算式で求められる値には、若干の誤差があります。

- Calculation method for L1 / Méthode de calcul pour L1 / L1 の計算式

(Unit / Unités / 単位 : m)

	L1
When the screen aspect ratio is 16:10 Lorsque le rapport d'aspect de l'écran est 16:10 画面アスペクト比 16 : 10 のとき	$=0.3165 \times SD + 0.0204$
When the screen aspect ratio is 16:9 Lorsque le rapport d'aspect de l'écran est 16:9 画面アスペクト比 16 : 9 のとき	$=0.3253 \times SD + 0.0204$
When the screen aspect ratio is 4:3 Lorsque le rapport d'aspect de l'écran est 4:3 画面アスペクト比 4 : 3 のとき	$=0.3583 \times SD + 0.0204$
When the screen aspect ratio is 21:9 Lorsque le rapport d'aspect de l'écran est 21:9 画面アスペクト比 21 : 9 のとき	$=0.3439 \times SD + 0.0204$

- Calculation method for L2, L3 and L4 / Méthode de calcul pour L2, L3 et L4 / L2、L3、L4 の計算式

(Unit / Unités / 単位 : m)

L2	L3	L4
$=L1 + 0.0156$	$=L1 - 0.2477$	$=L1 - 0.7857$

Appendix / Annexe / 付録 (continued / suite / つづき)

● Calculation method for A1 and A2 / Méthode de calcul pour A1 et A2 / A1、A2 の計算式

(Unit / Unités / 単位 : m)

	A1		A2	
	Min. / Mini / 最短	Max. / Maxi / 最長	Min. / Mini / 最短	Max. / Maxi / 最長
When the screen aspect ratio is 16:10 Lorsque le rapport d'aspect de l'écran est 16:10 画面アスペクト比 16 : 10 のとき	$=SH \times 0.28 - 0.09$	$=SH \times 0.38 - 0.09$	$=SH \times 0.28 + 0.122$	$=SH \times 0.38 + 0.122$
When the screen aspect ratio is 16:9 Lorsque le rapport d'aspect de l'écran est 16:9 画面アスペクト比 16 : 9 のとき	$=SH \times 0.37 - 0.09$	$=SH \times 0.48 - 0.09$	$=SH \times 0.37 + 0.122$	$=SH \times 0.48 + 0.122$
When the screen aspect ratio is 4:3 Lorsque le rapport d'aspect de l'écran est 4:3 画面アスペクト比 4 : 3 のとき	$=SH \times 0.28 - 0.09$	$=SH \times 0.38 - 0.09$	$=SH \times 0.28 + 0.122$	$=SH \times 0.38 + 0.122$
When the screen aspect ratio is 21:9 Lorsque le rapport d'aspect de l'écran est 21:9 画面アスペクト比 21 : 9 のとき	$=SH \times 0.66 - 0.09$	$=SH \times 0.80 - 0.09$	$=SH \times 0.66 + 0.122$	$=SH \times 0.80 + 0.122$



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