Accessory Lenses For:

- ASK
- BenQ
- BoxLight
- Canon
- Casio
- Christie
- CTX
- Dell
- Digital Projection
- DreamVision
- Dukane
- DWIN
- Eiki
- eluX
- Epson
- Fujitsu
- Gateway
- Hewlett Packard
- Hitachi
- IBM
- InFocus
- JVC
- Liesegang
- Luxeon
- Marantz
- Megapower
- Microtek
- Mitsubishi
- NEC
- Optoma
- Panasonic
- Philips
- Plus
- Projection Design
- Proxima
- Runco
- Samsung
- Sanyo
- Sharp
- Sony
- Toshiba
- ViewSonic
- Yamaha
- 3M

NAVITAR®

Nu*View* Projection Lenses
ScreenStar Conversion Lenses
Navitar Presentation Products

Featuring Navitar's new **ScreenStar** conversion lenses, ideal for use with DLP, LCD, DILA and LCOS format projectors. Easily change your image size or throw distance up to 50% with a ScreenStar conversion lens.

... see page 8 for details.






www.navitar.com

Navitar Products

Replacement Projection Lenses

Conversion Projection Lenses

Hi-Lite Videoconference Lighting

10K High Intensity Slide Projector

Slide Lenses

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Navitar Nu*View* Video Projection Lenses

Navitar's Nu*View* LCD lenses were the first aftermarket wide-angle and long-throw lenses manufactured for popular LCD models. Today, Navitar supports this growing market with two types of products: replacement lenses and conversion lenses. Our traditional replacement lenses allow the user the utmost in flexibility in terms of projection distance and image sizes. Literally, the use of our wide-angle and long-throw optics allow the projector to be placed almost anywhere in the room to fill the screen with sharp, bright images. Our new ScreenStar series of conversion lenses is ideal for use with most small format DLP, LCD, LCOS and DILA projectors. With ScreenStar lenses, users can either project an image up to 50% larger or 50% smaller or move the projector up to 50% farther away from the screen.

Navitar Offers Nu*View* Wide-angle and Long-throw Lenses to Fit Most LCD and DLP Projectors

Navitar is the largest manufacturer in the world of aftermarket LCD and DLP projector lenses. We make Nu*View* lenses to fit almost every projector on the market and we are constantly introducing new lens models.

Our large selection of lenses includes a variety of wide-angle, zoom and long-throw lenses for most types of projectors, including LCD 0.50", 0.70", 0.80", 0.90", 0.99", 1.2", 1.3", 1.35" and 1.8" diagonal projectors, DLP 0.55", 0.70", 0.80" and 0.90" projectors, as well as DILA and LCOS format projectors. No matter what your application, screen size, or projection distance, we have the projection lens you need.

Now You Can Place Your Projector Anywhere in the Room

The use of a Nu*View* lens allows you to place your video projector almost anywhere in the room and still fill your screen. The standard lens in your video projector only works in midsize rooms. The limited projection range of these lenses make them inadequate for many projection applications including classrooms, auditoriums and rear projection. Using the projector "as is" often results in an image that is too big or too small and can force you to place your projector in an inconvenient location.

With a Nu*View* long-throw lens, your projector is now suitable for use in large classrooms, auditoriums, churches and meeting rooms. The addition of a Nu*View* wide-angle lens allows you to use the projector in rear screen applications or produce much larger images for front projection.

Fill Your Screen Using Our New ScreenStar Conversion Lenses

Navitar's new ScreenStar series of conversion lenses is the latest advance in video accessory projector lenses. Ideal for use with most projector models, the new 0.65X and 0.8X wide-angle and the 1.2X and 1.5X telephoto conversion lenses allow users to easily change the picture size or throw distance for almost any size format DLP, LCD, LCOS or DILA projector. ScreenStar lenses allow users to either project an image up to 50% larger or 50% smaller, as well as move the projector up to 50% farther away from the screen.

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Quality

Design

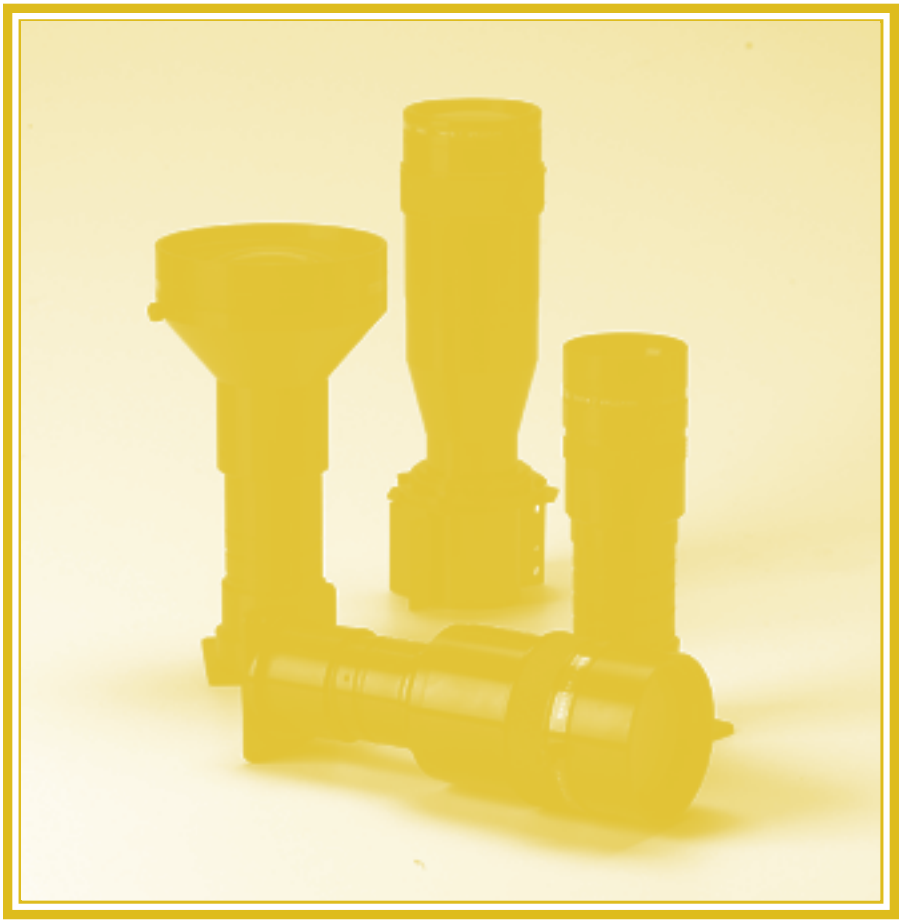
It is our advanced optical and mechanical designs, coupled with our dedication to respond quickly to the changing needs of our customers, that has earned us our reputation as a ground-breaking leader in the audio visual industry.

Warranty

Once it leaves our door, each lens is backed by a full 5-year warranty to ensure you are as proud to own a Navitar video projection lens as we are pleased to make it for you.

Innovation

We strive to continually challenge our engineers' creativity, our marketing staff's savvy and our sales team's foresight to keep Navitar video projection lenses ahead of industry trends. Progressive lens designs, constant website update of the latest available products, and exhibiting at trade shows worldwide, are just a few of the ways we bring our innovation to you, the customer.



Lenses for Special Applications

Navitar has been a pioneer in developing lens solutions for new and expanding industries. Below are some of the exciting applications that we are involved in.

MRI

Video projection optics for use with MRI and meg scanners allowing the video projector to be placed external to the MRI machine in order to avoid causing electronic interference. This provides a video image for the patient to view during the procedure.

Movie Theater Advertising

Long-throw video projector optics used to project video advertising in movie theaters. Our new ScreenStar lenses are ideal for use with DLP format projectors to increase throw distance or reduce picture size to properly fill the screen.

Churches

Long-throw video projector optics allow the video projector to be placed upwards of 100' away from the screen and display hymns and sermons.

Information/Display Systems

Wide-angle optics used to rear project data in information kiosks as well as longer throw optics for outdoor billboards.

Training Simulators

Custom designed optics for rear projection applications for sports and military applications.

OEM Applications

Long Focal Length Lenses with Large Aperture for OEM Applications Requiring High Light Output

Navitar has a long history in manufacturing long focal length Nu*View* projection optics with large diameters. These lenses cover a very large field and can be used to image large objects up to 14" x 17" in size (objects are typically about 8" x 10"). These objects can be projected at distances of 4' to infinity.

Applications for these lenses include:

- Military: Air Force guidance for plane or helicopter landing systems.
- Entertainment: Large back-drop images for amusement park rides or spot projection of images.
- Special Effects: Front projection of talking heads.
- Special Format Projectors: Graphic projection for indoor and outdoor lighting for retail advertising displays and special effects, as well as company logos.

The following table shows examples of the long focal length, large aperture lenses we have manufactured in the past. Please call for current availability.

Part #	Focal Length (inches	F#	Lens Diameter (inches)
Long Focal Length, Large Aperture Lenses			
2-14774	6	2	4
2-14708	8.5	3.9	3
Please Call	9.5	4.5	3
2-14773	9.84	2.8	4
Please Call	12.5	-	4
1-15563	14	3.5	4
Please Call	15.5	4.1	4
Please Call	18	-	4
Please Call	18	3.5	5.25

ScreenStar Conversion Lenses

- DLP Format
- LCOS Format
- LCD Format
- DILA Format

Perfect for Any Format Projector

Navitar's new ScreenStar series of conversion lenses is ideal for use with all the smaller size projector models available today. In the past, if a replacement lens didn't fit your application needs, you might have been out-of-luck. But now, with Navitar ScreenStar lenses, you have a new and simple way to change your throw distance or projected image size with DLP, LCD, LCOS and DILA format projectors. ScreenStar lenses allow users to either project an image up to 50% larger (or smaller) or move the projector up to 50% farther away from the screen. Navitar ScreenStar conversion lenses give you more projection choices than ever before.

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Left: 0.5" LCD format projector. Right: 0.70" DLP format projector.

Navitar's New ScreenStar Wide-angle and Long-throw Conversion Lenses

Navitar is proud to offer our latest advance in DLP and LCD video projector accessory lenses. The new 0.65X and 0.8X wide-angle and 1.2X and 1.5X telephoto conversion lenses allow users to easily change the picture size (up to 50% larger or smaller) or throw distance (50% farther away) for almost any size format projector.

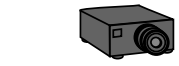
For Example:
The ScreenStar wide-angle 0.8X conversion lens fits easily in front of the standard lens and allows the user to achieve up to a 20% wider picture on the screen without having to move the projector. Or, the user could move the projector 20% closer and get the same image size. Consider that the typical DLP format projector user could get a 96" diagonal picture at the same distance where they might have only been able to achieve an 80" diagonal picture in a front projection, ceiling mount or rear projection application.

Our ScreenStar telephoto 1.2X conversion lens also fits easily in front of the standard lens. It allows the user to project a 20% smaller image or move the projector up to 20% farther away from the screen and still achieve the desired picture size. Home theater interior designers often prefer to locate the projector at the back of the room rather than placing it overhead in the middle of the room. For example, a DLP projector user can achieve a 120" diagonal picture from a distance of 18-24' as opposed to a distance of 15-20' with the projector's standard lens.

These lenses are available for projector brands such as InFocus, Sharp, Epson, Sony, Panasonic, Hitachi, Optoma, JVC, Mitsubishi, Sanyo, Eiki and more.

Replacement Lenses

Focal Length in Inches
Focal Length in Millimeters



0.7" Panel
DLP Projector

Wide-Angle

0.7"	1.0"
18	25.4

Zoom

2.0-2.75"	2.75-5.0"
50-70	70-125

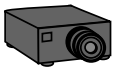
0.9" Panel
LCD Projector

Wide-Angle

1"	1.2"
25.4	30

Zoom

2.0-2.75"	2.75-5.0"	5.2-8.7"
50-70	70-125	132-220



0.99" Panel
LCD Projector

Wide-Angle

1"	1.2"	2.4"
25.4	30	60

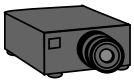
Zoom

2.0-2.75"	2.75-5.0"	5.2-8.7"	6.0-9.0"
50-70	70-125	132-220	150-230

1.2" Panel
LCD Projector

Zoom

4.49-7.72"	7.38-12.36"
114-196	184-314



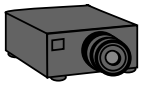
1.3" Panel
LCD Projector

Wide-Angle

1"	1.2"
25.4	30

Zoom

1.28-1.8"	2.75-5.0"	4.56-7.29"	5.2-8.7"	6.0-9.0"	7.38-12.3"
32.5-45.7	70-125	115-185	132-220	150-230	187-312



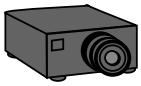
1.35" Panel
LCD Projector
(16:9 Wide Screen Format)

Wide-Angle

1"	1.2"
25	30

Zoom

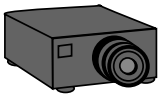
2.75-5.0"	5.2-8.7"
70-125	132-220



1.4" Panel
LCD Projector

Zoom

4.49-7.72"	5.2-8.7"	7.38-12.3"
114-196	132-220	187-312



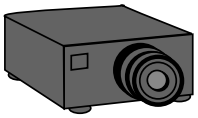
1.8" Panel
LCD Projector

Wide-Angle

1.5"
38

Zoom

4.56-7.29"	6.0-9.0"	7.38-12.3"
115-185	150-230	187-312



1.8" Panel
Large Venue

Zoom

4.49-7.72"	7.25-12.38"
114-196	184-314

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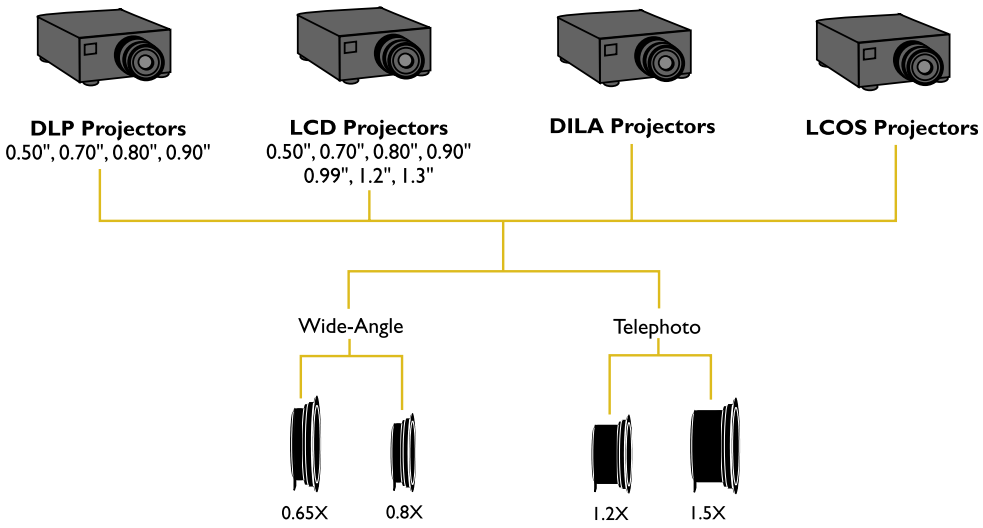
ScreenStar Conversion Lenses

ScreenStar Conversion Lenses: Perfect for any format projector!



Distance to Width Ratios
for Nu*View* Replacement Lenses

Panel Size	Ratio	Focal Length	
		Inches	mm
0.7"	1.3	0.7	18.0
	1.8	1.0	25.4
	3.5 - 4.92	2.0 - 2.75	50 - 70
	4.9 - 8.78	2.75 - 5.0	70 - 125
0.9"	1.38	1.0	25.4
	1.68	1.2	30.0
	3.82 - 6.94	2.75 - 5.0	70 - 125
	7.22 - 12.1	5.2 - 8.7	132 - 220
0.99"	1.26	1.0	25.4
	1.5	1.2	30.0
	3.0	2.4	60.0
	2.53 -3.47	2.0 - 2.75	50 - 70
	3.47 - 6.3	2.75 - 5.0	70 - 125
	6.57 - 11.0	5.2 - 8.7	132 - 220
	7.6 - 11.3	6.0 - 9.0	150 - 230
1.2"	4.3 - 7.3	4.49 - 7.72	114 - 196
	7.0 - 11.9	7.25 - 12.38	184 - 314
1.3"	0.94	1.0	25.4
	1.15	1.2	30.0
	1.23 - 1.73	1.28 - 1.8	32.5 - 45.7
	2.7 - 4.8	2.75 - 5.0	70 - 125
	4.4 - 7.0	4.56 - 7.29	115 - 185
	5.0 - 8.3	5.2 - 8.7	132 - 220
	5.8 - 8.6	6.0 - 9.0	150 - 230
	7.1 - 11.8	7.38 - 12.3	187 - 312
1.35"	0.86	1.0	25.4
	1.0	1.2	30.0
	2.4 - 4.2	2.75 - 5.0	70 - 125
	4.5 - 7.3	5.2 - 8.7	132 - 220
1.4"	4.0 - 6.8	4.49 - 7.72	114 - 196
	5.1 - 6.5	4.56 - 7.29	115 - 185
	4.7 - 7.7	5.2 - 8.7	132 - 220
	6.6 - 10.9	7.38 - 12.3	187 - 312
1.8"	3.2 - 5.0	4.56 - 7.29	115 - 185
	4.2 - 6.2	6.0 - 9.0	150 - 230
	5.2 - 8.5	7.38 - 12.3	187 - 312
1.8" LV	3.1 - 5.3	4.49 - 7.72	114 - 196
	5.0 - 8.6	7.25 - 12.38	184 - 314

When using ratios to select a lens, you must consider the screen width and the projection distance to the screen. The formula is distance /width. For example, if you had a 10' wide screen and a projection distance of 10', you would require a 1:1 lens. If your distance changed to 20', you would then require a 2:1 lens. However, due to the different LCD panel sizes, the actual focal length of the lens you would require for use with each panel size would be different, even though the ratio would be the same.

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Projection Charts

The projection charts on the following pages are to be used as a guideline when determining which focal length lens is appropriate for your application. After you've selected which focal length you need, just check the "Available Lenses by Projector Manufacturer" pages (pgs. 32-76) for a lens for your projector model.

Not all lens sizes are available for all projector models. If your projector model is not represented by one of our charts, please remember that video projectors change daily and this catalog is only a partial listing of available projection lenses offered by Navitar.

Visit **www.navitar.com** for the most current projector and lens information or call us directly at 1-800-828-6778 or 585-359-4000. If we don't offer the lens you require, we can suggest an alternative lens or create a custom lens solution for you.

Compatible Projector Brands

Navitar currently provides Nu*View* replacement and ScreenStar Conversion lenses for the LCD, DLP, LCOS and DILA projector brands listed below. As the largest manufacturer of aftermarket video projector lenses, we strive to make a lens to fit every projector. However, with the projector market changing so rapidly, new projector models are often introduced just after our catalog goes to print. The good news is that we are keeping up with the changes by constantly developing new lenses for the latest projector models.

- ASK
- BenQ
- BoxLight
- Canon
- Casio
- Christie
- CTX
- Dell
- Digital Projection
- Dream Vision
- Dukane
- DWIN
- Eiki
- eLux
- Epson
- Fujitsu
- Gateway
- Hitachi
- IBM
- InFocus
- JVC
- Liesegang
- Luxeon
- Marantz
- Megapower
- Microtek
- Mitsubishi
- NEC
- Optoma
- Panasonic
- Philips
- Plus
- Projection Design
- Proxima
- Runco
- Samsung
- Sanyo
- Sharp
- Sony
- Toshiba
- ViewSonic
- Yamaha
- 3M

If your projector is not listed here, please call us or visit our website, **www.navitar.com**, for the most up-to-date lens information.

0.9" LCD Panel Projection Chart

Width	Height	Diag.	Focal Length				
			1.0"	1.2"	2.0 - 2.75"	2.75 - 5.0"	5.2 - 8.7"
			Distance to Width Ratio (:1)				
			1.38	1.68	2.78 - 3.82	3.82 - 6.94	7.22 - 12.1
Image Size			Projection Distance				
3′	2′ 3″	45″	4′ 2″	5′	8′ 2″ - 11′ 6″	11′ 6″ - 20′ 6″	22′ - 36′
4′	3′	60″	5′ 6″	6′ 8″	11′ - 15′ 3″	15′ 6″ - 27′ 6″	29′ - 48′
5′	3′ 9″	75″	7′	8′ 4″	13′ 8″ - 19′ 6″	19′ 6″ - 34′ 6″	36′ 6″ - 60′
6′	4′ 6″	90″	8′ 4″	10′	16′ 4″ - 23′	23′ - 41′ 6″	43′ 6″ - 72′
7′	5′ 3″	105″	9′ 9″	11′ 8″	19′ 2″ - 26′ 10″	27′ - 48′ 6″	51′ - 84′
8′	6′	120″	11′ 2″	13′ 4″	22′ - 30′ 6″	31′ - 55′ 6″	58′ - 96′
9′	6′ 9″	135″	12′	15′	25′ - 34′	34′ 6″ - 62′	65′ 6″ - 108′
10′	7′ 6″	150″	13′ 10″	16′ 8″	27′ 6″ - 38′ 3″	38′ 6″ - 69′	72′ 6″ - 120′

Projection Distances are approximate measurements from the screen to the front of the projector.
For larger images not shown, doubling the image size will double the projection distance required, or vice versa.
Not all lenses are available for all brands and projector models.

ScreenStar Conversion Lenses

Catalog #	New Focal Length with a ScreenStar Lens & Your Projector's Prime Lens
Available ScreenStar Conversion Lenses	
SSW065	**New 50% Shorter Focal Length** with a 0.65X Wide-Angle ScreenStar Lens & Your Projector's Prime Lens
SSW08	**New 20% Shorter Focal Length** with a 0.8X Wide-Angle ScreenStar Lens & Your Projector's Prime Lens
SST120	**New 20% Longer Focal Length** with a 1.2X Telephoto ScreenStar Lens & Your Projector's Prime Lens
SST150	**New 50% Longer Focal Length** with a 1.5X Telephoto ScreenStar Lens & Your Projector's Prime Lens

0.99" LCD Panel Projection Chart

Width	Height	Diag.	Focal Length						
			1.0"	1.2"	2.4"	2.0 - 2.75"	2.75 - 5.0"	5.2 - 8.7"	6.0 - 9.0"
			Distance to Width Ratio (:1)						
			1.26	1.5	3.0	2.53 - 3.47	3.47 - 6.3	6.57 - 11.0	7.6 - 11.3
Image Size			Projection Distance						
3′	2′ 3″	45″	3′ 9″	4′ 6″	9′	7′ 6″ - 10′ 6″	10′6″ - 18′6″	19′8″ - 32′6″	23′ - 34′
4′	3′	60″	5′	6′	11′ 11″	10′ - 14′	14′ - 25′	26′3″ - 43′6″	33′6″ - 45′
5′	3′ 9″	75″	6′ 4″	7′ 7″	14′ 10″	12′ 6″ - 17′	17′6″ - 31′6″	32′10″ - 53′6″	38′ - 56′
6′	4′ 6″	90″	7′ 7″	9′	17′ 10″	15′ - 20′ 6″	21′ - 37′6″	39′4″ - 65′6″	46′ - 68′
7′	5′ 3″	105″	8′ 10″	10′ 7″	20′ 10″	17′ 6″ - 24′	24′6″ - 44′	46′ - 76′	54′ - 79′
8′	6′	120″	10′ 1″	12′ 2″	23′ 10″	20′ - 27′ 6″	28′ - 50′	52′6″ - 87′	61′ - 90′
9′	6′ 9″	135″	11′ 4″	13′ 8″	26′ 10″	22′ 6″ - 31′	31′6″ - 56′6″	59′ - 98′	69′ - 102′
10′	7′ 6″	150″	12′ 8″	15′ 2″	29′ 9″	25′ - 34′6″	35′ - 63′	65′8″ - 109′	76′ - 113′

Projection Distances are approximate measurements from the screen to the front of the projector.
For larger images not shown, doubling the image size will double the projection distance required, or vice versa.
Not all lenses are available for all brands and projector models.

ScreenStar Conversion Lenses

Catalog #	New Focal Length with a ScreenStar Lens & Your Projector's Prime Lens
Available ScreenStar Conversion Lenses	
SSW065	**New 50% Shorter Focal Length** with a 0.65X Wide-Angle ScreenStar Lens & Your Projector's Prime Lens
SSW08	**New 20% Shorter Focal Length** with a 0.8X Wide-Angle ScreenStar Lens & Your Projector's Prime Lens
SST120	**New 20% Longer Focal Length** with a 1.2X Telephoto ScreenStar Lens & Your Projector's Prime Lens
SST150	**New 50% Longer Focal Length** with a 1.5X Telephoto ScreenStar Lens & Your Projector's Prime Lens

1.2″ LCD Panel Projection Chart

Diagonal	16:9 Screen	Focal Length	
		4.49 - 7.72″	7.25 - 12.3″
		Distance to Width Ratio (:1)	
		4.3 - 7.3	7.0 - 11.9
Image Size		Projection Distance	
80″	70 x 39″	25 - 42.5″	40.8 - 69.4″
92″	80 x 45″	28.6 - 48.6″	46.6 - 79.3″
100″	87 x 49″	31 - 52.9″	50 - 86″
110″	96 x 54″	34.4 - 58.4″	56 - 95″
120″	105 x 59″	37.6 - 64″	61 - 104″
135″	117 x 66″	41.9 - 71″	68 - 116″
150″	131 x 74″	46.9 - 79.6″	76.4 - 130″
180″	157 x 88″	56 - 96″	91.5 - 157″
200″	174 x 98″	62 - 106″	101.5 - 173″

Projection Distances are approximate measurements from the screen to the front of the projector.
For larger images not shown, doubling the image size will double the projection distance required, or vice versa.
Not all lenses are available for all brands and projector models.

ScreenStar Conversion Lenses

Catalog #	New Focal Length with a ScreenStar Lens & Your Projector's Prime Lens
Available ScreenStar Conversion Lenses	
SSW065	**New 50% Shorter Focal Length** with a 0.65X Wide-Angle ScreenStar Lens & Your Projector's Prime Lens
SSW08	**New 20% Shorter Focal Length** with a 0.8X Wide-Angle ScreenStar Lens & Your Projector's Prime Lens
SST120	**New 20% Longer Focal Length** with a 1.2X Telephoto ScreenStar Lens & Your Projector's Prime Lens
SST150	**New 50% Longer Focal Length** with a 1.5X Telephoto ScreenStar Lens & Your Projector's Prime Lens

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1.3″ LCD Panel Projection Chart

Width	Height	Diag	Focal Length							
			1.0″	1.2″	1.28 - 1.8″	2.75 - 5.0″	4.56 - 7.29″	5.2 - 8.7″	6.0 - 9.0″	7.38 - 12.3″
			Distance to Width Ratio (:1)							
			0.94	1.15	1.23 - 1.73	2.7 - 4.8	4.4 - 7.0	5.0 - 8.3	5.8 - 8.6	7.1 - 11.8
Image Size			Projection Distance							
3′	2′3″	45″	2′8″	3′4″	3′9″-5′2″	8′-14′	13′6″-21′	15′-25′	17′6″-25′6″	21′6″-35′
4′	3′	60″	3′7″	4′6″	5′-6′11″	11′-19′	18′-28′	20′-33′	23′-34′6″	28′6″-47′
5′	3′9″	75″	4′7″	5′8″	6′3″-8′8″	13′6″-24′	22′-35′	25′-41′	29′-43′	35′6″-59′
6′	4′6″	90″	5′7″	6′10″	7′6″-10′4″	16′-28′6″	22′6″-42′	30′-50′	35′-51′	43′-70′
7′	5′3″	105″	6′6″	7′11″	8′9″-12′2″	18′6″-33′6″	31′-49′	35′-58′	41′-60′	50′-82′
8′	6′	120″	7′5″	9′1″	10′-13′10″	21′6″-38′	35′6″-56′	40′-66′	47′-69′	57′-94′
9′	6′9″	135″	8′4″	10′3″	11′3″-15′6″	24′-43′	39′6″-63′	45′-75′	52′-77′	64′-106′
10′	7′6″	150″	9′4″	11′5″	12′6″-17′4″	26′6″-48′	44′-70′	50′-83′	58′-86′	71′-118′
11′	8′3″	165″	10′4″	12′8″	13′9″-19′	29′6″-52′	48′6″-77′	55′-92′	64′-95′	79′-130′
12′	9′	180″	11′3″	13′10″	15′-20′9″	32′-57′	53′-84′	60′-100′	70′-103′	86′-141′
13′	9′9″	195″	12′3″	15′	16′3″-22′6″	34′6″-62′	57′-91′	65′-108′	75′-112′	93′-153′
14′	10′6″	210″	13′2″	16′1″	17′6″-24′3″	37′-67′	62′-98′	70′-117′	81′-121′	100′-165′

Projection Distances are approximate measurements from the screen to the front of the projector.
For larger images not shown, doubling the image size will double the projection distance required, or vice versa.
Not all lenses are available for all brands and projector models.

1.35″ LCD Panel Projection Chart

Diagonal	16:9 Screen	Focal Length			
		1.0″	1.2″	2.75 - 5.0″	5.2 - 8.7″
		Distance to Width Ratio (:1)			
		0.86	1.0	2.4 - 4.2	4.5 - 7.3
Image Size		Projection Distance			
80″	70 x 39″	60″	72″	165 - 301″	311 - 520″
92″	80 x 45″	68″	82″	190 - 345″	355 - 592″
100″	87 x 49″	74″	89″	206 - 375″	386 - 645″
110″	96 x 54″	82″	98″	226 - 406″	426 - 712″
120″	105 x 59″	90″	108″	247 - 449″	497 - 779″
135″	117 x 66″	100″	120″	277 - 504″	520 - 868″
150″	131 x 74″	112″	134″	308 - 560″	582 - 972″
180″	157 x 88″	134″	161″	369 - 671″	698 - 1165″
200″	174 x 98″	149″	178″	410 - 745″	773 - 1275″

Projection Distances are approximate measurements from the screen to the front of the projector.
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ScreenStar Conversion Lenses

Catalog #	New Focal Length with a ScreenStar Lens & Your Projector's Prime Lens
Available ScreenStar Conversion Lenses	
SSW065	**New 50% Shorter Focal Length** with a 0.65X Wide-Angle ScreenStar Lens & Your Projector's Prime Lens
SSW08	**New 20% Shorter Focal Length** with a 0.8X Wide-Angle ScreenStar Lens & Your Projector's Prime Lens
SST120	**New 20% Longer Focal Length** with a 1.2X Telephoto ScreenStar Lens & Your Projector's Prime Lens
SST150	**New 50% Longer Focal Length** with a 1.5X Telephoto ScreenStar Lens & Your Projector's Prime Lens

1.4" LCD Panel Projection Chart

Width	Height	Diag	Focal Length			
			4.49 - 7.72"	4.56 - 7.29"	5.2 - 8.7"	7.38 - 12.3"
			Distance to Width Ratio (:1)			
			4.0 - 6.8	5.1 - 6.5	4.7 - 7.7	6.6 - 10.9
Image Size			Projection Distance			
3′	2′3″	45″	12′ - 20′	15′ - 20′	14′ - 23′	20′ - 32′
4′	3′	60″	16′ - 27′	20′ - 26′	19′ - 31′	27′ - 43′
5′	3′9″	75″	20′ - 34′	26′ - 33′	24′ - 38′	33′ - 54′
6′	4′6″	90″	24′ - 41′	31′ - 39′	28′ - 46′	40′ - 65′
7′	5′3″	105″	28′ - 48′	36′ - 46′	33′ - 65′	47′ - 76′
8′	6′	120″	32′ - 55′	41′ - 52′	38′ - 62′	53′ - 87′
9′	6′9″	135″	36′ - 62′	46′ - 59′	42′ - 69′	59′ - 98′
10′	7′6″	150″	40′ - 68′	51′ - 65′	47′ - 77′	66′ - 109
11′	8′3″	165″	44′ - 75′	56′ - 72′	52′ - 85′	73′ - 120′
12′	9′	180″	48′ - 82′	61′ - 78′	56′ - 93′	80′ - 131′
13′	9′9″	195″	53′ - 89′	66′ - 85′	61′ - 100′	86′ - 142′
14′	10′6″	210″	57′ - 93′	71′ - 91′	66′ - 108′	93′ - 153′

Projection Distances are approximate measurements from the screen to the front of the projector.
For larger images not shown, doubling the image size will double the projection distance required, or vice versa.
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1.8″ LCD Panel Projection Chart

Width	Height	Diag.	Focal Length		
			4.56 - 7.29″	6.0 - 9.0″	7.38 - 12.3″
			Distance to Width Ratio (:1)		
			3.2 - 5.0	4.2 - 6.2	5.2 - 8.5
Image Size			Projection Distance		
3′	2′3″	45″	9′6″ - 15′2″	12′5″ - 18′8″	15′3″ - 25′5″
4′	3′	60″	12′8″ - 20′3″	16′7″ - 24′10″	20′4″ - 33′11″
5′	3′9″	75″	15′10″ - 25′3″	20′8″ - 31′	25′5″ - 42′5″
6′	4′6″	90″	19′ - 30′4″	24′10″ - 37′3″	30′6″ - 50′10″
7′	5′3″	105″	22′2″ - 35′5″	29′ - 43′5″	35′7″ - 59′4″
8′	6′	120″	25′4″ - 40′6″	33′1″ - 49′8″	40′8″ - 67′10″
9′	6′9″	135″	28′6″ - 45′6″	37′3″ - 55′10″	45′9″ - 76′4″
10′	7′6″	150″	31′8″ - 50′7″	41′4″ - 62′1″	50′10″ - 84′10″
11′	8′3″	165″	34′9″ - 55′8″	45′6″ - 68′3″	56′ - 93′4″
12′	9′	180″	38′ - 60′9″	49′8″ - 74′6″	61′1″ - 101′9″
13′	9′9″	195″	41′2″ - 65′9″	53′9″ - 80′8″	66′2″ - 110′3″
14′	10′6″	210″	44′4″ - 70′10″	58′ - 86′11″	71′3″ - 118′9″

Projection Distances are approximate measurements from the screen to the front of the projector.
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ScreenStar Conversion Lenses

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SSW08	**New 20% Shorter Focal Length** with a 0.8X Wide-Angle ScreenStar Lens & Your Projector's Prime Lens
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SST150	**New 50% Longer Focal Length** with a 1.5X Telephoto ScreenStar Lens & Your Projector's Prime Lens

1.8″ LCD Panel Large Venue Projection Chart

Width	Height	Diag	Focal Length	
			4.49 - 7.72″	7.25 - 12.38″
			Distance to Width Ratio (:1)	
			3.1 - 5.3	5.0 - 8.6
Image Size			Projection Distance	
3′	2′3″	45″	9′6″-16′	15′6″-25′6″
4′	3′	60″	12′6″-21′	20′6″-34′
5′	3′9″	75″	16′-26′6″	25′6″-42′6″
6′	4′6″	90″	19′-32′	30′6″-51′6″
7′	5′3″	105″	22′-37′6″	35′6″-60′
8′	6′	120″	25′-42′6″	40′6″-68′6″
9′	6′9″	135″	28′6″-48′	45′6″-77′
10′	7′6″	150″	31′6″-53′6″	50′6″-85′
11′	8′3″	165″	34′6″-58′6″	56′-94′
12′	9′	180″	37′6″-64′	61′-103′
13′	9′9″	195″	40′6″-69′6″	66′-111′
14′	10′6″	210″	44′-75′	71′-120′

Projection Distances are approximate measurements from the screen to the front of the projector.
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0.7" DLP Panel Projection Chart

Diagonal	4:3 Screen	Focal Length			
		0.7"	1.0"	2.0 - 2.75"	2.75 - 5.0"
		Distance to Width Ratio (:1)			
		1.3	1.8	3.5 - 4.9	4.9 - 8.78
Image Size		Projection Distance			
50"	3.3 x 2.48'	4.3'	6'	12 - 16'	16 -29'
80"	5.3 x 3.98'	6.9'	9.6'	19 - 26'	26 - 47'
100"	6.6 x 4.96'	8.7'	12'	23 - 32'	32 - 58'
150"	10 x 7.5'	13'	18'	35 - 49'	49 - 88'
200"	13.3 x 10'	17'	24'	47 - 65'	65 - 117'
300"	20 x 15'	26'	36'	70 - 98'	98 - 176'
400"	26.6 x 20'	35'	48'	93 - 130'	130 - 234'
500"	33.3 x 25'	43'	60'	117 - 163'	163 - 292'
600"	40 x 30'	52'	72'	140 - 196'	196 - 351'

Projection Distances are approximate measurements from the screen to the front of the projector.
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0.9" LCD Panel Metric Projection Chart

Width	Height	Diagonal	Focal Length (mm)				
			25.4	30.0	50 - 70	70 - 125	132 - 220
			Distance to Width Ratio (:1)				
			1.38	1.68	2.78 - 3.82	3.82- 6.94	7.22 - 12.1
Image Size (meters)			Projection Distance (meters)				
1.0	0.75	1.25	1.38	1.68	2.78 - 3.82	3.82 - 6.94	7.22 - 12.1
1.5	1.13	1.88	2.07	2.52	4.1 - 5.74	5.73 - 10.42	10.9 - 18.1
2.0	1.5	2.5	2.76	3.36	5.46 - 7.66	7.64 - 13.89	14.5 - 24.2
2.5	1.88	3.13	3.45	4.2	6.83 - 9.57	9.55 - 17.36	18.1 - 30.2
3.0	2.25	3.75	4.14	5.04	8.19 - 11.49	11.46 - 20.83	21.7 - 36.3
3.5	2.63	4.38	4.83	5.88	9.56 - 13.4	13.37 - 24.31	25.3 - 42.3

Projection Distances are approximate measurements from the screen to the front of the projector.
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SST150	**New 50% Longer Focal Length** with a 1.5X Telephoto ScreenStar Lens & Your Projector's Prime Lens

0.99" LCD Panel Metric Projection Chart

Width	Height	Diag.	Focal Length (mm)						
			25.4	30.0	60.0	50 - 70	70 - 125	132 - 220	150 - 230
			Distance to Width Ratio (:1)						
			1.26	1.5	3.0	2.53 - 3.47	3.47 - 6.3	6.57 - 11.0	7.6 - 11.3
Image Size (meters)			Projection Distance (meters)						
1.0	0.75	1.25	1.26	1.5	3.0	2.53- 3.47	3.47 - 6.3	6.57 - 11.0	7.6 - 11.3
1.5	1.13	1.88	1.9	2.25	4.5	3.72 - 5.22	5.21 - 9.45	9.8 - 16.5	11.4 - 16.9
2.0	1.5	2.5	2.5	3.0	6.0	4.96 - 6.96	6.94 - 12.6	13.1 - 22	15.2 - 22.6
2.5	1.88	3.13	3.2	3.8	7.4	6.2 - 8.7	7.64 - 15.75	16.5 - 27.5	19 - 28.2
3.0	2.25	3.75	3.8	4.5	8.9	7.44 - 10.44	10.41 - 18.9	19.7 - 33	22.8 - 33.9
3.5	2.63	4.38	4.4	5.3	10.4	8.68 - 12.18	12.15 - 22	23 - 38.5	26.6 - 39.5

Projection Distances are approximate measurements from the screen to the front of the projector.
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1.2″ LCD Panel Metric Projection Chart

Diagonal	16:9 Screen	Focal Length	
		114 - 196	184 - 314
		Distance to Width Ratio (:1)	
		4.3 - 7.3	7.0 - 11.9
Image Size		Projection Distance	
80″	70 x 39″	7.6 - 12.8	12.4 - 21
92″	80 x 45″	8.7 - 14.8	14.3 - 24
100″	87 x 49″	9.45 - 16	15.2 - 26
110″	96 x 54″	10.4 - 17.9	17 - 28.9
120″	105 x 59″	11.4 - 19.5	18.5 - 31.6
135″	117 x 66″	12.5 - 21.6	20.7 - 35.3
150″	131 x 74″	14.2 - 24.2	23 - 39.6
180″	157 x 88″	17 - 29.2	27.7 - 47.8
200″	174 x 98″	18.8 - 32.3	30.7 - 52.7

Projection Distances are approximate measurements from the screen to the front of the projector.
For larger images not shown, doubling the image size will double the projection distance required, or vice versa.
Not all lenses are available for all brands and projector models.

1.3" LCD Panel Metric Projection Chart

Width	Height	Diag.	Focal Length (mm)							
			25.4	30.0	32.5 - 45.7	70 - 125	115 - 185	132 - 220	150 - 230	187 - 312
			Distance to Width Ratio (:1)							
			0.94	1.15	1.23 - 1.73	2.7 - 4.8	4.4 - 7.0	5.0 - 8.3	5.8 - 8.6	7.1 - 11.8
Image Size (meters)			Projection Distance (meters)							
1.0	0.75	1.25	0.94	1.15	1.23-1.73	2.65-4.73	4.38-7.01	4.99-8.2	5.68-8.71	7.08-12.00
1.5	1.13	1.88	1.41	1.73	1.85-2.6	3.97-7.10	6.57-10.51	7.49-12.49	8.52-13.06	10.62-18.00
2.0	1.5	2.5	1.88	2.3	2.46-3.45	5.30-9.46	8.76-14.02	10.00-16.66	11.36-17.41	14.16-24.00
2.5	1.88	3.13	2.35	2.88	3.07-4.3	6.62-11.83	10.96-17.52	12.49-20.82	14.79-21.77	17.67-30.00
3.0	2.25	3.75	2.82	3.45	3.69-5.19	7.94-14.19	13.15-21.03	14.99-24.98	17.04-26.12	21.24-36.00
3.5	2.63	4.38	3.29	4.03	4.3-6.0	9.77-16.56	15.35-24.53	17.49-29.15	19.87-30.47	24.78-42.00
4.0	3.0	5.0	--	--	4.9-6.9	10.60-18.93	17.54-28.04	19.98-33.31	22.71-34.83	28.32-48.00
4.5	3.38	5.63	--	--	5.53-7.78	11.92-21.29	19.73-31.54	22.49-37.47	25.55-39.18	31.86-54.00
5.0	3.75	6.25	--	--	6.15-8.65	13.25-23.66	21.92-35.05	24.98-41.64	28.39-43.53	35.39-60.00

Projection Distances are approximate measurements from the screen to the front of the projector.
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1.35" LCD Panel Metric Projection Chart (16:9)

Diagonal	16:9 Screen	Focal Length (mm)			
		25.4	30.0	70 - 125	132 - 220
		Distance to Width Ratio (:1)			
		0.86	1.0	2.4 - 4.2	4.5 - 7.3
Image Size (inches)		Projection Distance (meters)			
80"	70 x 39"	1.52	1.83	4.19 - 7.65	7.90 - 13.21
92"	80 x 45"	1.72	2.08	4.83 - 8.77	9.02 - 15.04
100"	87 x 49"	1.88	2.26	5.23 - 9.53	9.80 - 16.38
110"	96 x 54"	2.08	2.49	5.74 - 10.31	10.82 - 18.08
120"	105 x 59"	2.29	2.74	6.27 - 11.70	12.62 - 19.79
135"	117 x 66"	2.54	3.05	7.04 - 12.80	13.21 - 22.05
150"	131 x 74"	2.84	3.40	7.82 - 14.22	14.78 - 24.69
180"	157 x 88"	3.4	4.09	9.37 - 17.04	17.73 - 29.59
200"	174 X 98"	3.78	4.52	10.41 - 18.92	19.63 - 32.39

Projection Distances are approximate measurements from the screen to the front of the projector.
For larger images not shown, doubling the image size will double the projection distance required, or vice versa.
Not all lenses are available for all brands and projector models.

1.4" LCD Panel Metric Projection Chart

Width	Height	Diag.	Focal Length (mm)			
			114 - 196	115-185	132 - 220	187 - 312
			Distance to Width Ratio (:1)			
			4.0 - 6.8	5.1 - 6.5	4.7 - 7.7	6.6 - 10.9
Image Size (meters)			Projection Distance (meters)			
1.0	0.75	1.25	4.0 - 6.8	4.6 - 6.9	4.7 - 7.7	6.6 - 10.9
1.5	1.13	1.88	6.0 - 10.2	6.9 - 7.9	7.1 - 11.5	9.9 - 16.3
2.0	1.5	2.5	8.0 - 13.6	7.9 - 10	9.4 - 15.4	13.2 - 21.8
2.5	1.88	3.13	10.0 - 17.0	9.45 - 11.9	11.8 - 19.2	16.5 - 27.2
3.0	2.25	3.75	12.0 - 20.4	11.0 - 14.0	14.1 - 23.1	19.8 - 32.7
3.5	2.63	4.38	14.0 - 23.8	12.5 - 15.8	16.5 - 26.9	23.1 - 38.1
4.0	3.0	5.0	16.0 - 27.2	14.0 - 18.0	18.8 - 30.8	26.4 - 43.6

Projection Distances are approximate measurements from the screen to the front of the projector.
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1.8" LCD Panel Metric Projection Chart

Width	Height	Diag.	Focal Length (mm)		
			115 - 185	150 - 230	187 - 312
			Distance to Width Ratio (:1)		
			3.2 - 5.0	4.2 - 6.2	5.2 - 8.5
Image Size (meters)			Projection Distance (meters)		
1.0	0.75	1.25	3.14 - 5.06	4.10 - 6.29	5.11 - 8.53
1.5	1.13	1.88	4.72 - 7.59	6.15 - 9.43	7.67 - 12.79
2.0	1.5	2.5	6.29 - 10.12	8.20 - 12.57	10.22 - 17.06
2.5	1.88	3.13	7.86 - 12.64	10.25 - 15.72	12.78 - 21.32
3.0	2.25	3.75	9.43 - 15.17	12.30 - 18.86	15.34 - 25.59
3.5	2.63	4.38	11.00 - 17.70	14.35 - 22.00	17.89 - 29.86
4.0	3.0	5.0	12.58 - 20.23	16.40 - 25.15	20.45 - 34.12
4.5	3.38	5.63	14.15 - 22.76	18.45 - 28.30	23.00 - 38.38
5.0	3.75	6.25	15.8 - 25.2	20.5 - 31.4	25.6 - 42.6

Projection Distances are approximate measurements from the screen to the front of the projector.
For larger images not shown, doubling the image size will double the projection distance required, or vice versa.
Not all lenses are available for all brands and projector models.

1.8" LCD Panel Large Venue Projection Chart

Width	Height	Diag.	Focal Length (mm)	
			114 - 196	184 - 314
			Distance to Width Ratio (:1)	
			3.1 - 5.3	5.0 - 8.6
Image Size (meters)			Projection Distance (meters)	
1.0	0.75	1.25	3.12 - 5.36	5.1 - 8.5
1.5	1.13	1.88	4.7 - 8.0	7.6 - 12.8
2.0	1.5	2.5	6.3 - 10.7	10.1 - 17.1
2.5	1.88	3.13	7.8 - 13.4	12.6 - 21.4
3.0	2.25	3.75	9.4 - 16.0	15.1 - 25.7
3.5	2.63	4.38	11.0 - 18.7	17.1 - 29.8
4.0	3.0	5.0	12.5 - 21.4	20.2 - 34.3
4.5	3.38	5.63	14.1 - 24.1	22.7 - 38.8
5.0	3.75	6.25	15.6 - 26.8	25.2 - 42.6

Projection Distances are approximate measurements from the screen to the front of the projector.
For larger images not shown, doubling the image size will double the projection distance required, or vice versa.
Not all lenses are available for all brands and projector models.

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0.7" DLP Panel Metric Projection Chart (4:3)

Diagonal	4:3 Screen	Focal Length			
		18	25.4	50 - 70	70 - 125
		Distance to Width Ratio (:1)			
		1.3	1.8	3.5 - 4.9	4.9 - 8.78
Image Size		Projection Distance			
50"	3.3 x 2.48'	1.3	1.8	3.65 - 4.87	4.87 - 8.8
80"	5.3 x 3.98'	2.1	2.9	5.79 - 7.92	7.92 - 14.3
100"	6.6 x 4.96'	2.65	3.65	7.0 - 9.75	9.75 - 17.6
150"	10 x 7.5'	3.96	5.48	10.6 - 14.9	14.9 - 26.8
200"	13.3 x 10'	5.18	7.3	14.3 - 19.8	19.8 - 35.6
300"	20 x 15'	7.92	10.9	21 - 29.8	29.8 - 53.6
400"	26.6 x 20'	10.6	14.6	28.3 - 39.6	39.6 - 71
500"	33.3 x 25'	13	18.2	35.7 - 49.6	49.6 - 89
600"	40 x 30'	15.8	21.9	42.6 - 59.7	59.7 - 107

Projection Distances are approximate measurements from the screen to the front of the projector.
For larger images not shown, doubling the image size will double the projection distance required, or vice versa.
Not all lenses are available for all brands and projector models.

ScreenStar Conversion Lenses

Catalog #	New Focal Length with a ScreenStar Lens & Your Projector's Prime Lens
Available ScreenStar Conversion Lenses	
SSW065	**New 50% Shorter Focal Length** with a 0.65X Wide-Angle ScreenStar Lens & Your Projector's Prime Lens
SSW08	**New 20% Shorter Focal Length** with a 0.8X Wide-Angle ScreenStar Lens & Your Projector's Prime Lens
SST120	**New 20% Longer Focal Length** with a 1.2X Telephoto ScreenStar Lens & Your Projector's Prime Lens
SST150	**New 50% Longer Focal Length** with a 1.5X Telephoto ScreenStar Lens & Your Projector's Prime Lens

ASK Projector Lenses

Catalog #	Focal Length		D:W Ratio	F#	Projector Model	LCD Panel Size	Retail Price
	Inches	mm					
Ask Replacement Lenses							
654MCL1028	1.0	25.4	1.26:1	2.8	CP440 & C450	0.99	$2,250
654MCZ275	2.0-2.75	50-70	2.53-3.47:1	2.5			1,799
654MCZ500	2.75-5.0	70-125	3.47-6.3:1	2.8			1,494
654MCZ087	5.2-8.7	132-220	6.57-11.0:1	3.0			1,845

BenQ Projector Lenses

Catalog #	Focal Length		D:W Ratio	F#	Projector Model	LCD Panel Size	Retail Price
	Inches	mm					
BenQ Replacement Lenses							
653MCL1028	1.0	25.4	1.26:1	2.8	PB9200	0.99	$2,250
653MCZ275	2.0-2.75	50-70	2.53-3.47:1	2.5			1,799
653MCZ500	2.75-5.0	70-125	3.47-6.3:1	2.8			1,494
653MCZ087	5.2-8.7	132-220	6.57-11.0:1	3.0			1,845
BenQ Conversion Lenses							
SSW065	0.65X ScreenStar Wide Angle Converter				Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter				PB2120, PB2220, PB2140, PB2240, PB6100, PB6200, PB6210, PB7100, PB7110, PB7200, PB7210, PB7220, PB7230, PB7800, PB8140, PB8220, PB8240 & PB8250	DLP	990
SST120	1.2X ScreenStar Telephoto Converter				PB2120, PB2220, PB2140, PB2240, PB6100, PB6200, PB6210, PB7100, PB7110, PB7200, PB7210, PB7220, PB7230, PB7800, PB8140, PB8220, PB8240 & PB8250	DLP	990
SST150	1.5X ScreenStar Telephoto Converter				Please Call	Call	1,497

Boxlight Projector Lenses

Catalog #	Focal Length		D:W Ratio	F#	Projector Model	LCD Panel Size	Retail Price
	Inches	mm					
Boxlight Replacement Lenses							
673MCL1028*	1.0	25.4	0.94:1	2.8	MP45T	1.3	$2,250
673MCL012*	1.2	30.0	1.15:1	2.8			2,250
673MCZ500	2.75-5.0	70-125	2.7-4.8:1	2.8			1,494
673MCZ087	5.2-8.7	132-220	5.0-8.3:1	3.0			1,845
673MCZ900	6.0-9.0	150-230	5.8-8.6:1	3.5			1,875
826MCL1028*	1.0	25.4	0.94:1	2.8	MP39, MP40, MP41 & MP42T	1.3	2,250
826MCL012	1.2	30.0	1.15:1	2.8			2,250
826MCZ500	2.75-5.0	70-125	2.7-4.8:1	2.8			1,494
826MCZ087	5.2-8.7	132-220	5.0-8.3:1	3.0			1,845
826MCZ900	6.0-9.0	150-230	5.8-8.6:1	3.5			1,875
820MCZ729	4.56-7.29	115-185	3.2-5.0:1	2.4	FP90T, 95T & 97T	1.8	2,100
820MCZ900	6.0-9.0	150-230	4.2-6.2:1	3.5			1,875
820MCZ123	7.38-12.3	187-312	5.2-8.5:1	4.0			2,150
Boxlight Conversion Lenses							
SSW065	0.65X ScreenStar Wide Angle Converter				Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter				XD 25M, CD 726C, SP48 & SP58	DLP	990
SST120	1.2X ScreenStar Telephoto Converter						990
SST150	1.5X ScreenStar Telephoto Converter				Please Call	Call	1,497

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Canon Projector Lenses

Catalog #	Focal Length		D:W Ratio	F#	Projector Model	LCD Panel Size	Retail Price
	Inches	mm					
Canon Replacement Lenses							
672MCL1028*	1.0	25.4	0.94:1	2.8	LV-7555 & LV-7565	1.3	$2,250
672MCL012*	1.2	30.0	1.15:1	2.8			2,250
672MCZ500	2.75-5.0	70-125	2.7-4.8:1	2.8			1,494
672MCZ087	5.2-8.7	132-220	5.0-8.3:1	3.0			1,845
672MCZ900	6.0-9.0	150-230	5.8-8.6:1	3.5			1,875
849MCL1028*	1.0	25.4	0.94:1	2.8	LV-7540 & LV-7545	1.3	2,250
849MCL012*	1.2	30.0	1.15:1	2.8			2,250
849MCZ1218	1.28-1.8	32.5-45.7	1.23-1.73:1	2.8			2,400
849MCZ500	2.75-5.0	70-125	2.7-4.8:1	2.8			1,494
849MCZ087	5.2-8.7	132-220	5.0-8.3:1	3.0			1,845
849MCZ900	6.0-9.0	150-230	5.8-8.6:1	3.5			1,875
775MCZ500	2.75-5.0	70-125	2.7-4.8:1	2.8	LV-7525 & LV-7535	1.3	1,494
775MCZ087	5.2-8.7	132-220	5.0-8.3:1	3.0			1,845
775MCZ900	6.0-9.0	150-230	5.8-8.6:1	3.5			1,875
Canon Conversion Lenses							
SSW065	0.65X ScreenStar Wide Angle Converter				Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter				LV-5200, 5210, 7210, 7215, 7350, 7355 & XEED SX50	LCD/DLP	990
SST120	1.2X ScreenStar Telephoto Converter						990
SST150	1.5X ScreenStar Telephoto Converter				Please Call	Call	1,497

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Casio Projector Lenses

Catalog #	Description	Projector Model	Projector Type	Retail Price
Casio Conversion Lenses				
SSW065	0.65X ScreenStar Wide Angle Converter	Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter	XJ 350 & XJ 450	DLP	990
SST120	1.2X ScreenStar Telephoto Converter			990
SST150	1.5X ScreenStar Telephoto Converter	Please Call	Call	1,497

Christie Projector Lenses

Catalog #	Focal Length		D:W Ratio	F#	Projector Model	LCD Panel Size	Retail Price
	Inches	mm					
Christie Replacement Lenses							
631MCL1028	1.0	25.4	1.26:1	2.8	LX32	0.99	$2,250
631MCL024	2.4	60.0	3.0:1	2.8			1,125
631MCZ275	2.0-2.75	50-70	2.53-3.47:1	2.5			1,799
631MCZ500	2.75-5.0	70-125	3.47-6.3:1	2.8			1,494
631MCZ087	5.2-8.7	132-220	6.57-11.0:1	3.0			1,845
631MCZ900	6.0-9.0	150-230	7.6-11.3:1	3.5			1,875
669MCL1028*	1.0	25.4	0.94:1	2.8	LX 37 & LX45	1.3	2,250
669MCL012*	1.2	30.0	1.15:1	2.8			1,125
669MCZ500	2.75-5.0	70-125	2.7-4.8:1	2.8			1,494
669MCZ087	5.2-8.7	132-220	5.0-8.3:1	3.0			1,845
669MCZ900	6.0-9.0	150-230	5.8-8.6:1	3.5			1,875
731MCZ537	4.49-7.72	114-196	3.1-5.3:1	2.0	L8 Roadrunner & Vivid White	1.8	3,954
731MCZ151	7.25-12.38	184-314	5.0-8.6:1	2.8			3,954
832MCL1028*	1.0	25.4	0.94:1	2.8	LX26, LX33, LX35 & LX41	1.3	2,250
832MCL012*	1.2	30.0	1.15:1	2.8			2,250
832MCZ1218	1.28-1.8	32.5-45.7	1.23-1.73:1	2.8			2,400
832MCZ500	2.75-5.0	70-125	2.7-4.8:1	2.8			1,494
832MCZ087	5.2-8.7	132-220	5.0-8.3:1	3.0			1,845
832MCZ900	6.0-9.0	150-230	5.8-8.6:1	3.5			1,875
840MCZ537	4.49-7.72	114-196	3.1-5.3:1	2.0	L6 Roadrunner & Vivid Blue	1.8	3,954
840MCZ151	7.25-12.38	184-314	5.0-8.6:1	2.8			3,954
370MCZ537	4.49-7.72	114-196	3.1-5.3:1	2.0	LX100, LX65, L6 & L8 Roadrunner	1.8	3,954
370MCZ151	7.25-12.38	184-314	5.0-8.6:1	2.8			3,954
372MCZ537	4.49-7.72	114-196	3.1-5.3:1	2.0	LW40U	1.2	3,954
372MCZ151	7.25-12.38	184-314	5.0-8.6:1	2.8			3,954
Christie Conversion Lenses							
SSW065	0.65X ScreenStar Wide Angle Converter				Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter				LX20, LX25, & DS30	LCD	990
SST120	1.2X ScreenStar Telephoto Converter						990
SST150	1.5X ScreenStar Telephoto Converter				Please Call	Call	1,497

** Zero offset*

CTX Projector Lenses

Catalog #	Description	Projector Model	Projector Type	Retail Price
CTX Conversion Lenses				
SSW065	0.65X ScreenStar Wide Angle Converter	Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter	PS 5140, 5100, 6180, 6250	DLP	990
SST120	1.2X ScreenStar Telephoto Converter			990
SST150	1.5X ScreenStar Telephoto Converter	Please Call	Call	1,497

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Dell Projector Lenses

Catalog #	Description	Projector Model	Projector Type	Retail Price
Dell Conversion Lenses				
SSW065	0.65X ScreenStar Wide Angle Converter	Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter	2200MP, 3300MP, 4100MP	DLP	990
SST120	1.2X ScreenStar Telephoto Converter			990
SST150	1.5X ScreenStar Telephoto Converter	Please Call	Call	1,497

Digital Projection Projector Lenses

Catalog #	Focal Length		D:W Ratio	F#	Projector Model	LCD Panel Size	Retail Price
	Inches	mm					
Digital Projection Replacement Lenses							
842MCZ729	4.56-7.29	115-185	4.4-7.0:1	2.4	SHOWlite 3000sx & 4000gv	1.3	$2,100
842MCZ123	7.38-12.3	187-312	7.1-11.8:1	4.0			2,150
Digital Projection Conversion Lenses							
SSW065	0.65X ScreenStar Wide Angle Converter				Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter				I VISION SX & I VISION HD	DLP	990
SST120	1.2X ScreenStar Telephoto Converter						990
SST150	1.5X ScreenStar Telephoto Converter				Please Call	Call	1,497

Available Lenses by Projector Manufacturer

If your projector is not listed here, please call us or visit our website, **www.navitar.com**, for the most up-to-date lens information.

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Dream Vision Projector Lenses

Catalog #	Description	Projector Model	Projector Type	Retail Price
Dream Vision Conversion Lenses				
SSW065	0.65X ScreenStar Wide Angle Converter	Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter	Cinema Ten Pro, Dream-Weaver, DV LC, DV LC5, Movie Star & Movie Star Plus	LCD/DLP	990
SST120	1.2X ScreenStar Telephoto Converter			990
SST150	1.5X ScreenStar Telephoto Converter	Please Call	Call	1,497

Navitar ScreenStar conversion lenses are perfect for any size format projector, providing you with a new and simple way to change your throw distance or projected image size with DLP, LCD, LCOS and DILA format projectors.

Dukane Projector Lenses

Catalog #	Focal Length		D:W Ratio	F#	Projector Model	LCD Panel Size	Retail Price
	Inches	mm					
Dukane Replacement Lenses							
844MCL012*	1.2	30.0	1.15:1	2.8	28 A8941 & 28 A8941-A	1.3	$2,250
844MCZ500	2.75-5.0	70-125	2.7-4.8:1	2.8			1,494
844MCZ087	5.2-8.7	132-220	5.0-8.3:1	3.0			1,845
844MCZ123	7.38-12.3	187-312	7.1-11.8:1	4.0			2,150
642MCL1028	1.0	25.4	1.26:1	2.8	ImagePro 8711	0.99	2,250
642MCL024	2.4	60.0	3.0:1	2.8			1,125
642MCZ500	2.75-5.0	70-125	3.47-6.3:1	2.8			1,494
642MCZ900	6.0-9.0	150-230	6.57-11.0:1	3.5			1,875
854MCZ087	5.2-8.7	132-220	5.0-8.3:1	3.0	ImagePro 8247	1.3	1,845
854MCZ900	6.0-9.0	150-230	5.8-8.6:1	3.5			1,875
405CPL1028	1.0	25.4	1.38:1	2.8	ImagePro 8910	0.9	2,250
405CPL012	1.2	30.0	1.68:1	2.8			2,250
405CPZ500	2.75-5.0	70-125	3.82-6.94:1	2.8			1,494
649MCL1028	1.0	25.4	1.26:1	2.8	ImagePro 8942	0.99	2,250
649MCZ275	2.0-2.75	50-70	2.53-3.47:1	2.5			1,799
649MCZ500	2.75-5.0	70-125	3.47-6.3:1	2.8			1,494
649MCZ087	5.2-8.7	132-220	6.57-11.0:1	3.0			1,845
859MCZ537	4.49-7.72	114-196	3.1-5.3:1	2.0	ImagePro 8945 & 9058	1.8	3,954
859MCZ151	7.25-12.38	184-314	5.0-8.6:1	2.8			3,954
629MCZ275	2.0-2.75	50-70	2.53-3.47:1	2.5	ImagePro 8805 & 8946	0.99	1,799
629MCZ500	2.75-5.0	70-125	3.47-6.3:1	2.8			1,494
883MCZ729	4.56-7.29	115-185	5.1-6.5:1	2.4	ImagePro 9060	1.4	2,100
883MCZ123	7.38-12.3	187-312	6.6-10.9:1	4.0			2,150
Dukane Conversion Lenses							
SSW065	0.65X ScreenStar Wide Angle Converter				Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter				ImagePro 8746, 8757, 8044, 8054, 8062, 8751, 8049B, 8755A, 8053	LCD/DLP	990
SST120	1.2X ScreenStar Telephoto Converter						990
SST150	1.5X ScreenStar Telephoto Converter				Please Call	Call	1,497

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DWIN Projector Lenses

Catalog #	Description	Projector Model	Projector Type	Retail Price
DWIN Conversion Lenses				
SSW065	0.65X ScreenStar Wide Angle Converter	Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter	TransVision, TransVision 2 & 3	DLP	990
SST120	1.2X ScreenStar Telephoto Converter			990
SST150	1.5X ScreenStar Telephoto Converter	Please Call	Call	1,497

If your projector is not listed here, please call us or visit our website, **www.navitar.com**, for the most up-to-date lens information.

Eiki Projector Lenses

Catalog #	Focal Length		D:W Ratio	F#	Projector Model	LCD Panel Size	Retail Price
	Inches	mm					
Eiki Replacement Lenses							
640MCL1028	1.0	25.4	1.26:1	2.8	LC-XG100, XG110, XG200 & XG210	0.99	$2,250
640MCL024	2.4	60.0	3.0:1	2.8			1,125
640MCZ275	2.0-2.75	50-70	2.53-3.47:1	2.5			1,799
640MCZ500	2.75-5.0	70-125	3.47-6.3:1	2.8			1,494
640MCZ087	5.2-8.7	132-220	6.57-11.0:1	3.0			1,845
640MCZ900	6.0-9.0	150-230	7.6-11.3:1	3.5			1,875
838MCZ537	4.49-7.72	114-196	3.1-5.3:1	2.0	LC-X / SX4L	1.8	3,954
838MCZ151	7.25-12.38	184-314	5.0-8.6:1	2.8			3,954
835MCL1028*	1.0	25.4	0.94:1	2.8	LC-X985, X986, X1000 & X1100	1.3	2,250
835MCL012*	1.2	30.0	1.15:1	2.8			2,250
835MCZ1218	1.28-1.8	32.5-45.7	1.23-1.73:1	2.8			2,400
835MCZ500	2.75-5.0	70-125	2.7-4.8:1	2.8			1,494
835MCZ087	5.2-8.7	132-220	5.0-8.3:1	3.0			1,845
835MCZ900	6.0-9.0	150-230	5.8-8.6:1	3.5			1,875
835MCZ123	7.38-12.3	187-312	7.1-11.8:1	4.0			2,150
778MCZ537	4.49-7.72	114-196	3.1-5.3:1	2.0	LC-XT1, XT2 & UXT1	1.8	3,954
778MCZ151	7.25-12.38	184-314	5.0-8.6:1	2.8			3,954
368MCZ537	4.49-7.72	114-196	3.1-5.3:1	2.0	LC-XT3, LC-X5, LC-X4AiL & SX4AiL	1.8	3,954
368MCZ151	7.25-12.38	184-314	5.0-8.6:1	2.8			3,954
818MCZ729	4.56-7.29	115-185	3.2-5.0:1	2.4	LC-SX 1 & 3	1.8	2,100
818MCZ900	6.0-9.0	150-230	4.2-6.2:1	3.5			1,875
818MCZ123	7.38-12.3	187-312	5.2-8.5:1	4.0			2,150
670MCL1028*	1.0	25.4	0.94:1	2.8	LC-X50, LC-X50M & LC-X70	1.3	2,250
670MCL012*	1.2	30.0	1.15:1	2.8			2,250
670MCZ500	2.75-5.0	70-125	2.7-4.8:1	2.8			1,494
670MCZ087	5.2-8.7	132-220	5.0-8.3:1	3.0			1,845
670MCZ900	6.0-9.0	150-230	5.8-8.6:1	3.5			1,875
Eiki Conversion Lenses							
SSW065	0.65X ScreenStar Wide Angle Converter				Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter				EIP-10V, EIP-25, LC-XM4, SM4, XB15, XB20, SB20 & SB25	LCD	990
SST120	1.2X ScreenStar Telephoto Converter						990
SST150	1.5X ScreenStar Telephoto Converter				Please Call	Call	1,497

** Zero offset*

eLux Projector Lenses

Catalog #	Description	Projector Model	Projector Type	Retail Price
eLux Conversion Lenses				
SSW065	0.65X ScreenStar Wide Angle Converter	Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter	LX300, LX400 & LX500	DLP	990
SST120	1.2X ScreenStar Telephoto Converter			990
SST150	1.5X ScreenStar Telephoto Converter	Please Call	Call	1,497

Epson Projector Lenses

Catalog #	Focal Length		D:W Ratio	F#	Projector Model	LCD Panel Size	Retail Price
	Inches	mm					
Epson Replacement Lenses							
606MCZ275	2.0-2.75	50-70	2.53-3.47:1	2.5	PowerLite 7800, 7850p & 7900	0.99	$1,799
606MCZ500	2.75-5.0	70-125	3.47-6.3:1	2.8			1,494
606MCZ087	5.2-8.7	132-220	6.57-11.0:1	3.0			1,845
710MCL1028*	1.0	25.4	0.94:1	2.8	PowerLite 5600, 7600 & 7700	1.3	2,250
710MCL012*	1.2	30.0	1.15:1	2.8			2,250
710MCZ500	2.75-5.0	70-125	2.7-4.8:1	2.8			1,494
710MCZ087	5.2-8.7	132-220	5.0-8.3:1	3.0			1,845
710MCZ900	6.0-9.0	150-230	5.8-8.6:1	3.5			1,875
880MCZ537	4.49-7.72	114-196	4.0-6.8:1	2.0	PowerLIte 8300i	1.4	3,954
880MCZ087	5.2-8.7	132-220	4.7-7.7:1	3.0			1,845
880MCZ123	7.38-12.3	187-312	6.6-10.9:1	4.0			2,150
Epson Conversion Lenses							
SSW065	0.65X ScreenStar Wide Angle Converter				Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter				PowerLite 730C, 735C, 740C, 745C, S1, 54C, 73C, 74C, 811C, 820C, 821, Home 10, 7800P & 7850P	LCD	990
SST120	1.2X ScreenStar Telephoto Converter						990
SST150	1.5X ScreenStar Telephoto Converter				Please Call	Call	1,497

** Zero offset*

Fujitsu Projector Lenses

Catalog #	Focal Length		D:W Ratio	F#	Projector Model	LCD Panel Size	Retail Price
	Inches	mm					
Fujitsu Replacement Lenses							
827MCL012*	1.2	30.0	1.15:1	2.8	LPF 7700	1.3	$2,250
827MCZ500	2.75-5.0	70-125	2.7-4.8:1	2.8			1,494
827MCZ087	5.2-8.7	132-220	5.0-8.3:1	3.0			1,845

**Zero offset*

Check out pages 77-82 for answers to frequently asked questions about Navitar replacement and conversion video projection lenses.

Gateway Projector Lenses

Catalog #	Description	Projector Model	Projector Type	Retail Price
Gateway Conversion Lenses				
SSW065	0.65X ScreenStar Wide Angle Converter	Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter	205	DLP	990
SST120	1.2X ScreenStar Telephoto Converter			990
SST150	1.5X ScreenStar Telephoto Converter	Please Call	Call	1,497

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Hewlett Packard Projector Lenses

Catalog #	Description	Projector Model	Projector Type	Retail Price
Hewlett Packard Conversion Lenses				
SSW065	0.65X ScreenStar Wide Angle Converter	Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter	sb21, vb31, vp6110, vp6120, xp8010, xp8020	DLP	990
SST120	1.2X ScreenStar Telephoto Converter			990
SST150	1.5X ScreenStar Telephoto Converter	Please Call	Call	1,497

Hitachi Projector Lenses

Catalog #	Focal Length		D:W Ratio	F#	Projector Model	LCD Panel Size	Retail Price
	Inches	mm					
Hitachi Replacement Lenses							
848MCL012*	1.2	30.0	1.15:1	2.8	CP-X990 & X995	1.3	$2,250
848MCZ500	2.75-5.0	70-125	2.7-4.8:1	2.8			1,494
848MCZ087	5.2-8.7	132-220	5.0-8.3:1	3.0			1,845
848MCZ123	7.38-12.3	187-312	7.1-11.8:1	4.0			2,150
635MCL1028	1.0	25.4	1.26:1	2.8	CP-X880 & X885	0.99	2,250
635MCL024	2.4	60.0	3.0:1	2.8			1,125
635MCZ275	2.0-2.75	50-70	2.53-3.47:1	2.5			1,799
635MCZ500	2.75-5.0	70-125	3.47-6.3:1	2.8			1,494
635MCZ900	6.0-9.0	150-230	7.6-11.3:1	3.5			1,875
856MCZ1218	1.28-1.8	32.5-45.7	1.23-1.73:1	2.8	CP-X870W	1.3	2,400
856MCZ087	5.2-8.7	132-220	5.0-8.3:1	3.0			1,845
856MCZ900	6.0-9.0	150-230	5.8-8.6:1	3.5			1,875
404CPL1028	1.0	25.4	1.38:1	2.8	CP-X430	0.9	2,250
404CPL012	1.2	30.0	1.68:1	2.8			2,250
404CPZ500	2.75-5.0	70-125	3.82-6.94:1	2.8			1,494
646MCL1028	1.0	25.4	1.26:1	2.8	CP-X1200 & CP-X1250	0.99	2,250
646MCZ275	2.0-2.75	50-70	2.53-3.47:1	2.5			1,799
646MCZ500	2.75-5.0	70-125	3.47-6.3:1	2.8			1,494
646MCZ087	5.2-8.7	132.220	6.57-11.0:1	3.0			1,845
Hitachi Conversion Lenses							
SSW065	0.65X ScreenStar Wide Angle Converter				Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter				CP-X275 WAT, S317, S318W, S370W, X327, X328, 385, SX5600, Home 1, X880 & X885	LCD/ LCOS	990
SST120	1.2X ScreenStar Telephoto Converter						990
SST150	1.5X ScreenStar Telephoto Converter				Please Call	Call	1,497

* Zero offset

IBM Projector Lenses

Catalog #	Description	Projector Model	Projector Type	Retail Price
IBM Conversion Lenses				
SSW065	0.65X ScreenStar Wide Angle Converter	Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter	ILM 300, ILV 300 & ILC 300	DLP	990
SST120	1.2X ScreenStar Telephoto Converter			990
SST150	1.5X ScreenStar Telephoto Converter	Please Call	Call	1,497

InFocus Projector Lenses

Catalog #	Focal Length		D:W Ratio	F#	Projector Model	LCD Panel Size	Retail Price
	Inches	mm					
InFocus Replacement Lenses							
647MCL1028	1.0	25.4	1.26:1	2.8	LP 840 & LP850	0.99	$2,250
647MCZ275	2.0-2.75	50-70	2.53-3.47:1	2.5			1,799
647MCZ500	2.75-5.0	70-125	3.47-6.3:1	2.8			1,494
647MCZ087	5.2-8.7	132-220	6.57-11.0:1	3.0			1,845
BenQ Conversion Lenses							
SSW065	0.65X ScreenStar Wide Angle Converter				Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter				LP130, 240, 250, 500, 70, 120, 530, 650, 820, ScreenPlay 110, 5700, 7200 & 7205	LCD/ DLP	990
SST120	1.2X ScreenStar Telephoto Converter						990
SST150	1.5X ScreenStar Telephoto Converter				Please Call	Call	1,497

JVC Projector Lenses

Catalog #	Description	Projector Model	Projector Type	Retail Price
JVC Conversion Lenses				
SSW065	0.65X ScreenStar Wide Angle Converter	Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter	DLA-SX21	DILA	990
SST120	1.2X ScreenStar Telephoto Converter			990
SST150	1.5X ScreenStar Telephoto Converter	Please Call	Call	1,497

If your projector is not listed here, please call us or visit our website, **www.navitar.com**, for the most up-to-date lens information.

Liesegang Projector Lenses

Catalog #	Focal Length		D:W Ratio	F#	Projector Model	LCD Panel Size	Retail Price
	Inches	mm					
Liesegang Replacement Lenses							
846MCL012*	1.2	30.0	1.15:1	2.8	DV-390 & DV550	1.3	$2,250
846MCZ500	2.75-5.0	70-125	2.7-4.8:1	2.8			1,494
846MCZ087	5.2-8.7	132-220	5.0-8.3:1	3.0			1,845
846MCZ123	7.38-12.3	187-312	7.1-11.8:1	4.0			2,150
636MCL1028*	1.0	25.4	1.26:1	2.8	DV-500	0.99	2,250
636MCL024	2.4	60.0	3.0:1	2.8			1,125
636MCZ500	2.75-5.0	70-125	3.47-6.3:1	2.8			1,494
636MCZ900	6.0-9.0	150-230	7.6-11.3:1	3.5			1,875
645MCL1028*	1.0	25.4	1.26:1	2.8	DV-540 & DV-560 Flex	0.99	2,250
645MCZ275	2.0-2.75	50-70	2.53-3.47:1	2.5			1,799
645MCZ500	2.75-5.0	70-125	3.47-6.3:1	2.8			1,494
645MCZ087	5.2-8.7	132-220	6.57-11.0:1	3.0			1,845
406CPL1028	1.0	25.4	1.38:1	2.8	DV-400	0.9	2,250
406CPL012	1.2	30.0	1.68:1	2.8			2,250
406CPZ500	2.75-5.0	70-125	3.82-6.94:1	2.8			1,494
Liesegang Conversion Lenses							
SSW065	0.65X ScreenStar Wide Angle Converter				Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter				Multi 800, DDV2500, DV445, DV465, Luxor II, Luxor Plus, Mayfair, Mayfair Pro, Ultra & Picadilly Plus	LCD/DLP	990
SST120	1.2X ScreenStar Telephoto Converter						990
SST150	1.5X ScreenStar Telephoto Converter				Please Call	Call	1,497

* Zero offset

Luxeon Projector Lenses

Catalog #	Focal Length		D:W Ratio	F#	Projector Model	LCD Panel Size	Retail Price
	Inches	mm					
Luxeon Replacement Lenses							
409CPL1028	1.0	25.4	1.38:1	2.8	P-680	0.9	$2,250
409CPL012	1.2	30.0	1.68:1	2.8			2,250
409CPZ500	2.75-5.0	70-125	3.82-6.94:1	2.8			1,494
Luxeon Conversion Lenses							
SSW065	0.65X ScreenStar Wide Angle Converter				Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter				L 713, P-680, X2	LCD	990
SST120	1.2X ScreenStar Telephoto Converter						990
SST150	1.5X ScreenStar Telephoto Converter				Please Call	Call	1,497

Marantz Projector Lenses

Catalog #	Description	Projector Model	Projector Type	Retail Price
Marantz Conversion Lenses				
SSW065	0.65X ScreenStar Wide Angle Converter	Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter	VP-12S1 HD, 12S2 HD, 8000 & 8100	DLP	990
SST120	1.2X ScreenStar Telephoto Converter			990
SST150	1.5X ScreenStar Telephoto Converter	Please Call	Call	1,497

Each Navitar NuView projection lens is backed by a full 5-year warranty to ensure that you are as proud to own one of our video projection lenses as we are pleased to make it for you.

Megapower Projector Lenses

Catalog #	Description	Projector Model	Projector Type	Retail Price
Megapower Conversion Lenses				
SSW065	0.65X ScreenStar Wide Angle Converter	Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter	ML-166, ML-169, ML-199, & ML-620	LCD	990
SST120	1.2X ScreenStar Telephoto Converter			990
SST150	1.5X ScreenStar Telephoto Converter	Please Call	Call	1,497

Microtek Projector Lenses

Catalog #	Description	Projector Model	Projector Type	Retail Price
Microtek Conversion Lenses				
SSW065	0.65X ScreenStar Wide Angle Converter	Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter	VX2	LCD	990
SST120	1.2X ScreenStar Telephoto Converter			990
SST150	1.5X ScreenStar Telephoto Converter	Please Call	Call	1,497

We strive to keep Navitar video projection lenses ahead of industry trends. Progressive lens designs, constant website update of the latest available products, and exhibiting at trade shows worldwide, are just a few of the ways we bring our innovation to our customers.

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Mitsubishi Projector Lenses

Catalog #	Focal Length		D:W Ratio	F#	Projector Model	LCD Panel Size	Retail Price
	Inches	mm					
Mitsubishi Replacement Lenses							
634MCL012	1.2	30.0	1.15:1	2.8	XL-25 & XL30	0.99	$2,250
634MCL024	2.4	60.0	3.0:1	2.8			1,125
634MCZ500	2.75-5.0	70-125	3.47-6.3:1	2.8			1,494
634MCZ087	5.2-8.7	132-220	6.57-11.0:1	3.0			1,845
711MCZ500	2.75-5.0	70-125	2.7-4.8:1	2.8	XL5900 & 5950U & UL	1.3	1,494
711MCZ087	5.2-8.7	132-220	5.0-8.3:1	3.0			1,845
711MCZ900	6.0-9.0	150-230	5.8-8.6:1	3.5			1,875
711MCZ123	7.38-12.3	187-312	7.1-11.8:1	4.0			2,150
Mitsubishi Conversion Lenses							
SSW065	0.65X ScreenStar Wide Angle Converter				Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter				Colorview X8, XD50, SD200, XL, XL2, CL4U, XD350, XD300, XD400, XD500 XD20, HC2, HC900, HC2000 & LVP-D1208	LCD/ DLP	990
SST120	1.2X ScreenStar Telephoto Converter						990
SST150	1.5X ScreenStar Telephoto Converter				Please Call	Call	1,497

NEC Projector Lenses

Catalog #	Focal Length		D:W Ratio	F#	Projector Model	LCD Panel Size	Retail Price
	Inches	mm					
NEC Replacement Lenses							
806MCZ1218	1.28-1.8	32.5-45.7	1.23-1.73:1	2.8	GT1150 & GT2150	1.3	$2,400
806MCZ729	4.56-7.29	115-185	4.4-7.0:1	2.4			2,100
806MCZ123	7.38-12.3	187-312	7.1-11.8:1	4.0			2,150
881MCZ729	4.56-7.29	115-185	5.1-6.5:1	2.4	GT5000	1.4	2,100
881MCZ123	7.38-12.3	187-312	6.6-10.9:1	4.0			2,150
771MCL012*	1.2	30.0	1.15:1	2.8	MT850, 1050, 1055 &1056	1.3	2,250
771MCZ500	2.75-5.0	70-125	2.7-4.8:1	2.8			1,494
771MCZ087	5.2-8.7	132-220	5.0-8.3:1	3.0			1,845
771MCZ900	6.0-9.0	150-230	5.8-8.6:1	3.5			1,875
637MCZ275	2.0-2.75	50-70	2.53-3.47:1	2.5	MT860, 1060, 1065, 1070 & 1075	0.99	1,799
637MCZ500	2.75-5.0	70-125	3.47-6.3:1	2.8			1,494
408CPZ500	2.75-5.0	70-125	3.82-6.94:1	2.8	GT950	0.9	1,494
408CPZ087	5.2-8.7	132-220	7.22-12.1:1	3.0			1,845
NEC Conversion Lenses							
SSW065	0.65X ScreenStar Wide Angle Converter				Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter				LT 75Z, 150Z, 240K, 260K, VT 46, 465, 560, 660K, HT 1000, MT860, 1060 & 1065	LCD/ DLP	990
SST120	1.2X ScreenStar Telephoto Converter						990
SST150	1.5X ScreenStar Telephoto Converter				Please Call	Call	1,497

** Zero offset*

Optoma Projector Lenses

Catalog #	Description	Projector Model	Projector Type	Retail Price
Optoma Conversion Lenses				
SSW065	0.65X ScreenStar Wide Angle Converter	Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter	EZ Pro 725, 730, 731, 732, 735, 737, 739, 750, 751, 753, 755, 756, 757, 758, 759, & H30, 56, 76	DLP	990
SST120	1.2X ScreenStar Telephoto Converter			990
SST150	1.5X ScreenStar Telephoto Converter	Please Call	Call	1,497

If your projector is not listed here, please call us or visit our website, **www.navitar.com**, for the most up-to-date lens information.

Panasonic Projector Lenses

Catalog #	Focal Length		D:W Ratio	F#	Projector Model	LCD Panel Size	Retail Price
	Inches	mm					
Panasonic Replacement Lenses							
860MCL012*	1.2	30.0	1.15:1	2.8	PT-6500, 6510, 6600 & 6610UL	1.3	$2,250
860MCZ500	2.75-5.0	70-125	2.7-4.8:1	2.8			1,494
860MCZ729	4.56-7.29	115-185	4.4-7.0:1	2.4			2,100
860MCZ900	6.0-9.0	150-230	5.8-8.6:1	3.5			1,875
860MCZ123	7.38-12.3	187-312	7.1-11.8:1	4.0			2,150
639MCZ500	2.75-5.0	70-125	3.47-6.3:1	2.8	PT-L750 & 780U	1.8	1,494
639MCZ087	5.2-8.7	132-220	6.57-11.0:1	3.0			1,845
570MCL070	0.7	18.0	1.3:1	2.0	PT-D5500U & PT-D5500UL	0.7 DLP	2,400
570MCL1028	1.0	25.4	1.8:1	2.8			2,250
570MCZ275	2.0-2.75	50-70	3.5-4.92:1	2.5			1,799
570MCZ500	2.75-5.0	70-125	4.9-8.78:1	2.8			1,494
Panasonic Conversion Lenses							
SSW065	0.65X ScreenStar Wide Angle Converter				Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter				PT-LB10, LC56, LC76, LC80, L520, L735U, L735NTU, L200, L300,AE100, AE200, AE300 & AE700	LCD	990
SST120	1.2X ScreenStar Telephoto Converter						990
SST150	1.5X ScreenStar Telephoto Converter				Please Call	Call	1,497

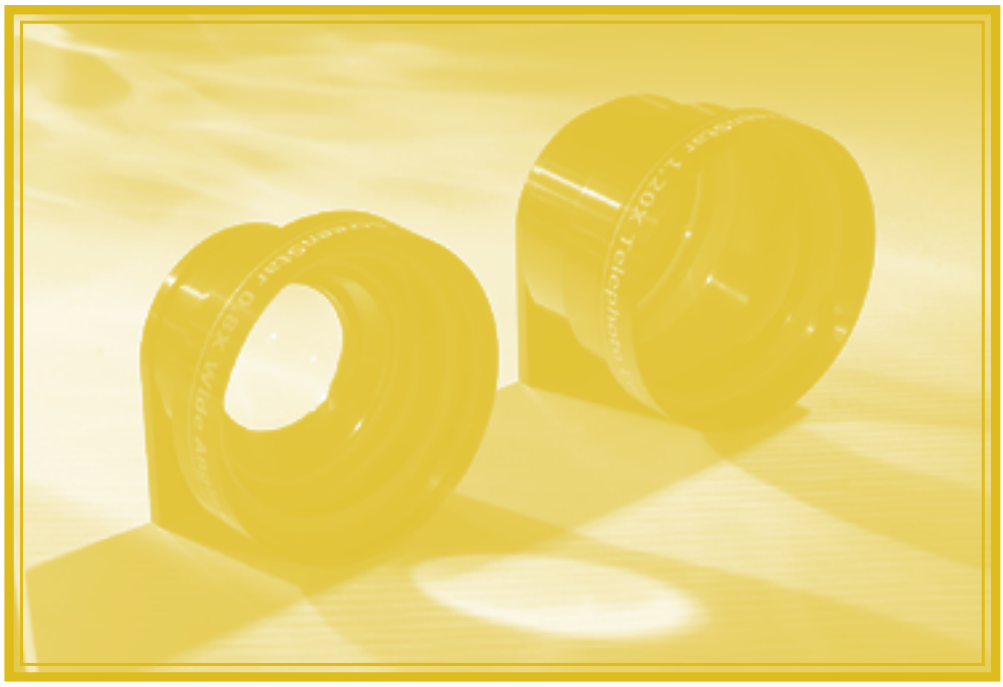
** Zero offset*

Philips Projector Lenses

Catalog #	Focal Length		D:W Ratio	F#	Projector Model	LCD Panel Size	Retail Price
	Inches	mm					
Philips Replacement Lenses							
644MCL1028	1.0	25.4	1.26:1	2.8	PXG-30 Impact & PXG-30	0.99	$2,250
644MCL024	2.4	60.0	3.0:1	2.8			1,125
644MCZ275	2.0-2.75	50-70	2.53-3.47:1	2.5			1,799
644MCZ500	2.75-5.0	70-125	3.47-6.3:1	2.8			1,494
644MCZ087	5.2-8.7	132-220	6.57-11.0:1	3.0			1,845
644MCZ900	6.0-9.0	150-230	7.6-11.3:1	3.5			1,875
Philips Conversion Lenses							
SSW065	0.65X ScreenStar Wide Angle Converter				Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter				LC6231 Standard & LC 7181 Matchline	LCD	990
SST120	1.2X ScreenStar Telephoto Converter						990
SST150	1.5X ScreenStar Telephoto Converter				Please Call	Call	1,497

Plus Projector Lenses

Catalog #	Description	Projector Model	Projector Type	Retail Price
Plus Conversion Lenses				
SSW065	0.65X ScreenStar Wide Angle Converter	Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter	U5-132, 232, V-110Z, 807Z, U4-112, 136, U2-1200, 1130, 1150, 1110 2000 & 817	DLP	990
SST120	1.2X ScreenStar Telephoto Converter			990
SST150	1.5X ScreenStar Telephoto Converter	Please Call	Call	1,497



ScreenStar Conversion Lenses

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Projection Design Projector Lenses

Catalog #	Description	Projector Model	Projector Type	Retail Price
Projection Design Conversion Lenses				
SSW065	0.65X ScreenStar Wide Angle Converter	Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter	FISXGA & Action	DLP	990
SST120	1.2X ScreenStar Telephoto Converter			990
SST150	1.5X ScreenStar Telephoto Converter	Please Call	Call	1,497

Navitar ScreenStar lenses allow users to either project an image up to 50% larger (or smaller) or move the projector up to 50% farther away from the screen. Our ScreenStar conversion lenses give you more projection choices than ever before.

Proxima Projector Lenses

Catalog #	Focal Length		D:W Ratio	F#	Projector Model	LCD Panel Size	Retail Price
	Inches	mm					
Proxima Replacement Lenses							
841MCL1028	1.0	25.4	0.94:1	2.8	DP 9270, 9290 & 9295	1.3	$2,250
841MCL012	1.2	30.0	1.15:1	2.8			2,250
841MCZ1218	1.28-1.8	32.5-45.7	1.23-1.73:1	2.8			2,400
841MCZ500	2.75-5.0	70-125	2.7-4.8:1	2.8			1,494
841MCZ087	5.2-8.7	132-220	5.0-8.3:1	3.0			1,845
841MCZ900	6.0-9.0	150-230	5.8-8.6:1	3.5			1,875
847MCZ537	4.49-7.72	114-196	3.1-5.3:1	2.0	AV9500 & AV9550	1.8	3,954
847MCZ151	7.25-12.38	184-314	5.0-8.6:1	2.8			3,954
850MCL012*	1.2	30.0	1.15:1	2.8	DP 6870	1.3	2,250
850MCZ500	2.75-5.0	70-125	2.7-4.8:1	2.8			1,494
850MCZ087	5.2-8.7	132-220	5.0-8.3:1	3.0			1,845
850MCZ123	7.38-12.3	187-312	7.1-11.8:1	4.0			2,150
Proxima Conversion Lenses							
SSW065	0.65X ScreenStar Wide Angle Converter				Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter				DP 1000X, 1200X, 2000S, 2000X, & 6500X	LCD/ DLP	990
SST120	1.2X ScreenStar Telephoto Converter						990
SST150	1.5X ScreenStar Telephoto Converter				Please Call	Call	1,497

Available Lenses by Projector Manufacturer

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Runco Projector Lenses

Catalog #	Description	Projector Model	Projector Type	Retail Price
Runco Conversion Lenses				
SSW065	0.65X ScreenStar Wide Angle Converter	Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter	Reflection CL500, 510, 700, 710, VX3C, 5C, 1000, 1000C, 5000, 5000C, DR300 & 300C	DLP	990
SST120	1.2X ScreenStar Telephoto Converter			990
SST150	1.5X ScreenStar Telephoto Converter	Please Call	Call	1,497

Ideal for use with today's smaller size projector models, Navitar ScreenStar conversion lenses allow you to easily change your throw distance or projected image size for DLP, LCD, LCOS and DILA format projectors.

Samsung Projector Lenses

Catalog #	Description	Projector Model	Projector Type	Retail Price
Samsung Conversion Lenses				
SSW065	0.65X ScreenStar Wide Angle Converter	Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter	SP-H700A	DLP	990
SST120	1.2X ScreenStar Telephoto Converter			990
SST150	1.5X ScreenStar Telephoto Converter	Please Call	Call	1,497

Our advanced optical and mechanical designs, coupled with our dedication to respond quickly to the changing needs of our customers, has earned us our reputation as a ground-breaking leader in the audio visual industry.

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Sanyo Projector Lenses

Catalog #	Focal Length		D:W Ratio	F#	Projector Model	LCD Panel Size	Retail Price
	Inches	mm					
Sanyo Replacement Lenses							
641MCL1028	1.0	25.4	1.26:1	2.8	PLC-XT10, XT11, XT15 & XT16	0.99	$2,250
641MCL024	2.4	60.0	3.0:1	2.8			1,125
641MCZ275	2.0-2.75	50-70	2.53-3.47:1	2.5			1,799
641MCZ500	2.75-5.0	70-125	3.47-6.3:1	2.8			1,494
641MCZ087	5.2-8.7	132-220	6.57-11.0:1	3.0			1,845
641MCZ900	6.0-9.0	150-230	7.6-11.3:1	3.5			1,875
839MCZ537	4.49-7.72	114-196	3.1-5.3:1	2.0	PLC-EF & XF30F	1.8	3,954
839MCZ151	7.25-12.38	184-314	5.0-8.6:1	2.8			3,954
829MCL1028*	1.0	25.4	0.94:1	2.8	PLC-XP40, XP41, XP45 & XP46	1.3	2,250
829MCL012*	1.2	30.0	1.15:1	2.8			2,250
829MCZ1218	1.28-1.8	32.5-45.7	1.23-1.73:1	2.8			2,400
829MCZ500	2.75-5.0	70-125	2.7-4.8:1	2.8			1,494
829MCZ087	5.2-8.7	132-220	5.0-8.3:1	3.0			1,845
829MCZ900	6.0-9.0	150-230	5.8-8.6:1	3.5			1,875
829MCZ123	7.38-12.3	187-312	7.1-11.8:1	4.0			2,150
794MCL1028*	1.0	25.4	0.94:1	2.8	PLC-XP30	1.3	2,250
794MCL012*	1.2	30.0	1.15:1	2.8			2,250
794MCZ1218	1.28-1.8	32.5-45.7	1.23-1.73:1	2.8			2,400
794MCZ500	2.75-5.0	70-125	2.7-4.8:1	2.8			1,494
794MCZ087	5.2-8.7	132-220	5.0-8.3:1	3.0			1,845
794MCZ900	6.0-9.0	150-230	5.8-8.6:1	3.5			1,875
787MCZ500	2.75-5.0	70-125	2.7-4.8:1	2.8	PLC-XP18N & XP21N	1.3	1,494
787MCZ087	5.2-8.7	132-220	5.0-8.3:1	3.0			1,845
787MCZ900	6.0-9.0	150-230	5.8-8.6:1	3.5			1,875
788MCZ537	4.49-7.72	114-196	3.1-5.3:1	2.0	PLC-XF20, XF40 & UF10	1.8	3,954
788MCZ151	7.25-12.38	184-314	5.0-8.6:1	2.8			3,954
369MCZ537	4.49-7.72	114-196	3.1-5.3:1	2.0	PLC-XF31, XF35, XF41, XF45 & EF31	1.8	3,954
369MCZ151	7.25-12.38	184-314	5.0-8.6:1	2.8			3,954
671MCL1028*	1.0	25.4	0.94:1	2.8	PLC-XP50, XP55 & XP56	1.3	2,250
671MCL012*	1.2	30.0	1.15:1	2.8			2,250
671MCZ500	2.75-5.0	70-125	2.7-4.8:1	2.8			1,494
671MCZ087	5.2-8.7	132-220	5.0-8.3:1	3.0			1,845
671MCZ900	6.0-9.0	150-230	5.8-8.6:1	3.5			1,875
371MCZ537	4.49-7.72	114-196	3.1-5.3:1	2.0	PLV-WF10	1.2	3,954
371MCZ151	7.25-12.38	184-314	5.0-8.6:1	2.8			3,954
Sanyo Conversion Lenses							
SSW065	0.65X ScreenStar Wide Angle Converter				Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter				PLC-XW20,PLC-SW20AR,PLC-XW20AR,PLC-SU50S,PLC-XU50,PLC-XU55,PLC-XU25,PLC-UX51,PLC-UX56, PLC-SW30,PLC-SW35,PLV-70,PLV-Z1 & PLV-Z3	LCD	990
SST120	1.2X ScreenStar Telephoto Converter						990
SST150	1.5X ScreenStar Telephoto Converter				Please Call	Call	1,497

** Zero offset*

Sharp Projector Lenses

Catalog #	Focal Length		D:W Ratio	F#	Projector Model	LCD Panel Size	Retail Price
	Inches	mm					
Sharp Replacement Lenses							
825MCL1028*	1.0	25.4	0.94:1	2.8	XG-P20 & P25XU	1.3	$2,250
825MCL012*	1.2	30.0	1.15:1	2.8			2,250
825MCZ1218	1.28-1.8	32.5-45.7	1.23-1.73:1	2.8			2,400
825MCZ500	2.75-5.0	70-125	2.7-4.8:1	2.8			1,494
825MCZ729	4.56-7.29	115-185	4.4-7.0:1	2.4			2,100
825MCZ087	5.2-8.7	132-220	5.0-8.3:1	3.0			1,845
825MCZ900	6.0-9.0	150-230	5.8-8.6:1	3.5			1,875
732MCZ537	4.49-7.72	114-196	3.1-5.3:1	2.0	XG-V10	1.8	3,954
732MCZ151	7.25-12.38	184-314	5.0-8.6:1	2.8			3,954
633MCZ500	2.75-5.0	70-125	3.47-6.3:1	2.8	PG-C45, XG-C50, XG-C55 & XG-C60	0.99	1,494
633MCZ087	5.2-8.7	132-220	6.57-11.0:1	3.0			1,845
Sharp Conversion Lenses							
SSW065	0.65X ScreenStar Wide Angle Converter				Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter				PG-A10, A20, B10, DT200, M25X, C45, XG-C50, XG-C55 & XV-Z12000	LCD	990
SST120	1.2X ScreenStar Telephoto Converter						990
SST150	1.5X ScreenStar Telephoto Converter				Please Call	Call	1,497

**Zero offset*

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Sony Projector Lenses

Catalog #	Focal Length		D:W Ratio	F#	Projector Model	LCD Panel Size	Retail Price
	Inches	mm					
Sony Replacement Lenses							
356MCL1028*	1.0	25.4	0.94:1	2.8	VPL-PX21, PX31, PX32, FX50 & FX51	1.3	$2,250
356MCL012*	1.2	30.0	1.15:1	2.8			2,250
356MCZ1218	1.28-1.8	32.5-45.7	1.23-1.73:1	2.8			2,400
356MCZ500	2.75-5.0	70-125	2.7-4.8:1	2.8			1,494
356MCZ087	5.2-8.7	132-220	5.0-8.3:1	3.0			1,845
356MCZ900	6.0-9.0	150-230	5.8-8.6:1	3.5			1,875
638MCZ500	2.75-5.0	70-125	3.47-6.3:1	2.8	VPL-PX35 & PX40	0.99	1,494
638MCZ087	5.2-8.7	132-220	6.57-11.0:1	3.0			1,845
367MCZ501	2.75-5.0	70-125	3.47-6.3:1	2.8	VPL-VW12HT	1.35	1,494
403CPZ500	2.75-5.0	70-125	3.85-6.94:1	2.8	VPL-PS10, PX10, PX11 & PX15	0.9	1,494
Sony Conversion Lenses							
SSW065	0.65X ScreenStar Wide Angle Converter				Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter				VPL-CX11	LCD	990
SST120	1.2X ScreenStar Telephoto Converter						990
SST150	1.5X ScreenStar Telephoto Converter				Please Call	Call	1,497

**Zero offset*

Toshiba Projector Lenses

Catalog #	Focal Length		D:W Ratio	F#	Projector Model	LCD Panel Size	Retail Price
	Inches	mm					
Toshiba Replacement Lenses							
833MCL1028*	1.0	25.4	0.94:1	2.8	TLP-X4100	1.3	$2,250
833MCL012*	1.2	30.0	1.15:1	2.8			2,250
833MCZ500	2.75-5.0	70-125	2.7-4.8:1	2.8			1,494
833MCZ087	5.2-8.7	132-220	5.0-8.3:1	3.0			1,845
833MCZ900	6.0-9.0	150-230	5.8-8.6:1	3.5			1,875
652MCL1028	1.0	25.4	1.26:1	2.8	TLP-X4500	0.99	2,250
652MCZ275	2.0-2.75	50-70	2.53-3.47:1	2.5			1,799
652MCZ500	2.75-5.0	70-125	3.47-6.3:1	2.8			1,494
652MCZ900	6.0-9.0	150-230	7.6-11.3:1	3.5			1,875
Toshiba Conversion Lenses							
SSW065	0.65X ScreenStar Wide Angle Converter				Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter				TDP P5-US, TLP S10U, S41U, T60, T61, T720, T721 & MT8U	LCD/ DLP	990
SST120	1.2X ScreenStar Telephoto Converter						990
SST150	1.5X ScreenStar Telephoto Converter				Please Call	Call	1,497

**Zero offset*

ViewSonic Projector Lenses

Catalog #	Focal Length		D:W Ratio	F#	Projector Model	LCD Panel Size	Retail Price
	Inches	mm					
ViewSonic Replacement Lenses							
855MCL012*	1.2	30.0	1.15:1	2.8	PJ1065-2	1.3	2,250
855MCZ500	2.75-5.0	70-125	2.7-4.8:1	2.8			1,494
855MCZ087	5.2-8.7	132-220	5.0-8.3:1	3.0			1,845
855MCZ123	7.38-12.3	187-312	7.1-11.8:1	4.0			2,150
651MCL1028	1.0	25.4	1.26:1	2.8	PJ1165	0.99	2,250
651MCZ275	2.0-2.75	50-70	2.53-3.47:1	2.5			1,799
651MCZ500	2.75-5.0	70-125	3.47-6.3:1	2.8			1,494
651MCZ900	6.0-9.0	150-230	7.6-11.3:1	3.5			1,875
ViewSonic Conversion Lenses							
SSW065	0.65X ScreenStar Wide Angle Converter				Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter				PJ250, PF650, PJ750	DLP	990
SST120	1.2X ScreenStar Telephoto Converter						990
SST150	1.5X ScreenStar Telephoto Converter				Please Call	Call	1,497

**Zero offset*

Yamaha Projector Lenses

Catalog #	Description	Projector Model	Projector Type	Retail Price
Yamaha Conversion Lenses				
SSW065	0.65X ScreenStar Wide Angle Converter	Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter	DPX-1 & DPX-1000	DLP	990
SST120	1.2X ScreenStar Telephoto Converter			990
SST150	1.5X ScreenStar Telephoto Converter	Please Call	Call	1,497

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Zenith Projector Lenses

Catalog #	Description	Projector Model	Projector Type	Retail Price
Zenith Conversion Lenses				
SSW065	0.65X ScreenStar Wide Angle Converter	Please Call	Call	$1,497
SSW08	0.8X ScreenStar Wide Angle Converter	RD-JT30, RL-JA20	DLP	990
SST120	1.2X ScreenStar Telephoto Converter			990
SST150	1.5X ScreenStar Telephoto Converter	Please Call	Call	1,497

3M Projector Lenses

Catalog #	Focal Length		D:W Ratio	F#	Projector Model	LCD Panel Size	Retail Price
	Inches	mm					
3M Replacement Lenses							
845MCL012*	1.2	30.0	1.15:1	2.8	MP 8775i & MP 8795	1.3	2,250
845MCZ500	2.75-5.0	70-125	2.7-4.8:1	2.8			1,494
845MCZ087	5.2-8.7	132-220	5.0-8.3:1	3.0			1,845
845MCZ123	7.38-12.3	187-312	7.1-11.8:1	4.0			2,150
643MCL1028	1.0	25.4	1.26:1	2.8	MP 8790	0.99	2,250
643MCL024	2.4	60.0	3.0	2.8			1,125
643MCZ500	2.75-5.0	70-125	3.47-6.3:1	2.8			1,494
643MCZ900	6.0-9.0	150-230	7.6-11.3:1	3.5			1,875
410CPL1028	1.0	25.4	1.38:1	2.8	MP 8765	0.9	2,250
410CPL012	1.2	3.0	1.68:1	2.8			1,125
410CPZ500	2.75-5.0	70-125	3.82-6.94:1	2.8			1,494
648MCL1028	1.0	25.4	1.26:1	2.8	X70 & X80	0.99	2,250
648MCZ275	2.0-2.75	50-70	2.53-3.47:1	2.5			1,799
648MCZ500	2.75-5.0	70-125	3.47-6.3:1	2.8			1,494
648MCZ087	5.2-8.7	132-220	6.57-11.0:1	3.0			1,845

**Zero offset*

Replacement Lens FAQs

Q. How do I calculate what size lens I require?

A. If you need to calculate the correct lens size you require, please use the following formula for a very close approximation. If you have any questions, please call and speak to one of our engineers.

Lens Focal Length = Projection Distance x LCD Panel Size (diag. or width) / Screen Size (diagonal or width)

First, you must know the following information:

1. Screen size in inches (diagonal or width).
2. Projector LCD panel size in inches (diagonal or width).
3. Projection distance in inches (measured from the front of the video projector housing to the screen).

It is very important that you be consistent. If you use the diagonal screen size measurement, then you must also use the diagonal measurement for the projector LCD panel size. If using screen width, then use the LCD panel size width. If you are working in inches, then you need to do all of your calculations in inches. You can convert the lens size to millimeters at the end. Please note the following information:

Screen Diagonal x 0.8 = Screen Width
LCD Diagonal x 0.8 = LCD Width
1 Foot = 12 Inches
1 Inch = 25.4 Millimeters

Example:
You have an 80' projection distance from the screen to the front of the LCD projector housing. The screen is 10' wide and the LCD has a 1.3" diagonal.

Lens Focal Length = Projection Distance x LCD Size (diagonal or width) / Screen Size (diagonal or width)

Lens Focal Length (Calculated in Inches)

$$= \frac{(80' \times 12") \times (1.3" \times 0.8)}{10' \times 12"} = \frac{960" \times 1.04"}{120"} = \mathbf{8.32"}$$

Lens Focal Length (Calculated in MM)

$$= \frac{(80' \times 12" \times 25.4) \times (1.3" \times 0.8 \times 25.4\ mm)}{(10' \times 12" \times 25.4\ mm)}$$

$$= \frac{24{,}384\ mm \times 24{,}384\ mm}{3{,}048\ mm} = \frac{644{,}127.74\ mm}{3{,}048\ mm} = \mathbf{211\ mm}$$

For this application, we recommend the Nu*View* 6-9" zoom lens, model 819MCZ900.

Q. If my image is 10 feet wide, how high will it be?

A. An easy way to determine image height is to take the image width and divide it by its aspect ratio. The aspect ratio for standard video is 1.33:1.

Image Height = Image Width / Aspect Ratio = 10' / 1.33 = **7.5' (7'6" or 2,286 mm)**

The aspect ratio for HDTV and most "letterbox" formats is 1.77:1, therefore a 10 foot wide HDTV image will be 5'8" high.

Q. How do I convert a diagonal measurement into width?

A. Just as most TV sizes are given in diagonals, the same is true of LCD panel sizes. This is why we multiply the LCD panel size (a diagonal measurement) by 0.8 (4x3) or 0.87 (16x9) to determine the "Aperture," which is the "Width" measurement.

Standard Format (4x3 : 1): Width (or Aperture) = Diagonal Measurement x 0.8
Wide Screen Format (16x9 : 1): Width (or Aperture) = Diagonal Measurement x 0.87

Q. Why do some lenses only work on certain projectors?

A. The most common reason for this is due to the physical internal and external design of the projector itself. For example, the position of the LCD panel or electronic components inside the machine are simply not compatible with all lenses. The design of the outside projector cover can also determine whether or not some larger lenses can be used with a that particular projector model.

Q. Is it difficult to install a new LCD lens in a projector?

A. Installing a new lens is relatively simple. There is no disassembling involved and no heavy electronics to take apart. In fact, many projector manufacturers are now designing their projectors to make it easier to remove the prime lens.

Installation instructions are included with each Nu*View* lens Navitar sends out. You can also find a complete set of instructions on our website **(http://www.navitar.com/avl/installation_Instructions.html)**. If you have any doubts, contact your dealer for the name of an authorized service center or trained professional in your area, or you can contact Navitar directly.

Q. Will I lose all of my remote control features?

A. All Nu*View* lenses are manual lenses, that is, you must focus or zoom the lens by hand (your power zoom and power focus functions will be disabled). If your projector has a lens shift function, you will retain this feature. For fixed installations, the picture size and focus need to be set only once and readjustment is not necessary. Set it and forget it!

Q. At what distance will my lens focus?

A. Most Navitar LCD lenses will focus as close as 3 to 4 feet in front of the projector and all lenses are set to focus to infinity, therefore focusing at long distances will not be a problem.

Q. What do these catalog terms mean?

A1. Zero Offset Most LCD projectors have a built-in angle of projection, usually upwards a few degrees. A "zero offset" or "on axis" lens projects straight out in front, so it is necessary to place the projector in a position that is perpendicular to the center of your screen. This is typically the case when using wide-angle and fixed lenses.

A2. MCZ (in the catalog #) Literally, it stands for Multi-Coated Zoom (**MCL** is for Multi-Coated Lens). This is a new manufacturing process developed by Navitar, in conjunction with our sister company, Navitar Coating Labs, Inc. The process increases the brightness, contrast ratio and color saturation of our "Xtra Bright" lenses.

A3. Prime Lens The "prime lens" is the factory installed, manufacturer's lens that comes with your projector.

ScreenStar Conversion Lens FAQs

Q. What is a ScreenStar Lens and how do I use it?

A. A Navitar ScreenStar is a conversion lens for video projectors. It is simply placed in front of the projector's standard lens allowing users to easily change the picture size or throw distance for almost any size format video projector. If needed, slide the ScreenStar from left to right to capture the four corners of the projected image.

To **enlarge your image size**, rotate the projector zoom lens to wide-angle and use our 0.65X or 0.8X ScreenStar wide-angle conversion lens to increase your image by 20-50% from the same projection distance.

To **reduce your image size or increase your throw distance**, rotate the projector zoom lens to telephoto and use our 1.20X or 1.5X ScreenStar telephoto conversion lens. This allows you to place your projector 20-50% farther away from the screen and maintain the same image width or get a 20-50% smaller picture size from your current location.

Q. Why would I choose a conversion lens instead of a replacement lens?

A. There are a variety of reasons for choosing a conversion lens instead of a replacement lens. Often, people who choose to use a conversion lens are working with a small format projector. Many of the small format projectors on the market today are too intricate to take apart and replace the prime lens, so a conversion lens is the best choice. Other projectors allow lens replacement, but many replacement lenses are physically too large for smaller format projectors.

Q. What is considered a small format projector?

A. Navitar conversion lenses are often used with small format projectors. Here are a few of the small format projectors currently on the market (panel sizes are measured diagonally):

- DLP format projectors: 0.55", 0.7", 0.8", and 0.9"
- LCD small format projectors: 0.5", 0.7", 0.8", 0.9", 1.0", 1.2", and 1.3"
- DILA format projectors: 0.7"
- LCOS format projectors: 0.9"

Q. Will a ScreenStar conversion lens work with every projector?

A. While a ScreenStar conversion lens should work with most projectors, the most common exception is a projector where the prime lens sits too far inside the projector, away from the projector face. Close coupling the ScreenStar with the prime lens will allow you to use the ScreenStar and prevent clipping the corners of the projected image.

Q. Can I use a ScreenStar conversion lens with my ceiling-mounted projector?

A. Yes. There is a ceiling mount adapter accessory available from Chief Manufacturing which allows you to attach the ScreenStar lens to a Chief ceiling mount. (Call Chief at 1-800-582-6480 and ask for part # NAV-1).

Q. How do I calculate my new focal length using a Navitar ScreenStar lens?

A1. Use the following formula to calculate your new focal length using the Navitar Wide-angle ScreenStar Conversion Lens (SSW065):

Focal Length (FL)
FL x 0.65 = New Focal Length (with Conversion Lens)

Consider that your current focal length is 1.18-1.80" and you place a Navitar SSW065 Wide-angle ScreenStar Conversion Lens in front of the projector's standard lens, your new focal length will be:

FL x 0.65 = New FL
1.18-1.80 x 0.65 = **0.76-1.17" New FL**

Note: When the focal length ranges between two numbers, as in the example above, multiply each number by 0.65 separately for your new focal length range using Navitar's Wide-angle Conversion Lens.

A2. Use the following formula to calculate your new focal length using the Navitar Wide-angle ScreenStar Conversion Lens (SSW08):

Focal Length (FL)
FL x 0.8 = New Focal Length (with Conversion Lens)

Consider that your current focal length is 1.10-1.40" and you place a Navitar SSW08 Wide-angle ScreenStar Conversion Lens in front of the projector's standard lens, your new focal length will be:

FL x 0.8 = New FL
1.10-1.40 x 0.8 = **0.88-1.12" New FL**

Note: When the focal length ranges between two numbers, as in the example above, multiply each number by 0.8 separately for your new focal length range using Navitar's Wide-angle Conversion Lens.

A3. Use the following formula to calculate your new focal length using the Navitar Telephoto ScreenStar Conversion Lens (SST120):

Focal Length (FL)
FL x 1.20 = New Focal Length (with Conversion Lens)

Consider that your current focal length is 1.10-1.40" and you place a Navitar SST120 Telephoto ScreenStar Conversion Lens in front of the projector's standard lens, your new focal length will be:

FL x 1.20 = New FL
1.10-1.40 x 1.20 = **1.32-1.68" New FL**

Note: When the focal length ranges between two numbers, as in the example above, multiply each number by 1.20 separately for your new focal length range using Navitar's Telephoto Conversion Lens.

A4. Use the following formula to calculate your new focal length using the Navitar Telephoto ScreenStar Conversion Lens (SST150):

Focal Length (FL)
FL x 1.5 = New Focal Length (with Conversion Lens)

Consider that your current focal length is 1.18-1.80" and you place a Navitar SST150 Telephoto ScreenStar Conversion Lens in front of the projector's standard lens, your new focal length will be:

FL x 1.5 = New FL
1.18-1.80 x 1.5 = **1.77-2.7" New FL**

Note: When the focal length ranges between two numbers, as in the example above, multiply each number by 1.5 separately for your new focal length range using Navitar's Telephoto Conversion Lens.

Q. How do I calculate my new image width using a Navitar ScreenStar lens?

A1. Use the following formula to calculate your new image width using the Navitar Wide-angle ScreenStar Conversion Lens (SSW065):

Image Width (IW)
IW x 1.5 = New Image Width (with Conversion Lens)

Consider that your current image width is 96" and you place a Navitar Wide-angle ScreenStar Conversion Lens in front of the projector's standard lens, your new, larger image width will be:

IW x 1.5 = New Image Width
96" x 1.5 = **144" New Image Width**

A2. Use the following formula to calculate your new image width using the Navitar Wide-angle ScreenStar Conversion Lens (SSW08):

Image Width (IW)
IW x 1.25 = New Image Width (with Conversion Lens)

Consider that your current image width is 80" and you place a Navitar Wide-angle ScreenStar Conversion Lens in front of the projector's standard lens, your new, larger image width will be:

IW x 1.25 = New Image Width
80" x 1.25 = **96" New Image Width**

A3. Use the following formula to calculate your new image width using the Navitar Telephoto ScreenStar Conversion Lens (SST120):

Image Width (IW)
IW x 0.83 = New Image Width (with Conversion Lens)

Consider that your current image width is 80" and you place a Navitar Telephoto ScreenStar Conversion Lens in front of the projector's standard lens, your new, smaller image width will be:

IW x 0.83 = New Image Width
80" x 0.83 = **67" New Image Width**

A4. Use the following formula to calculate your new image width using the Navitar Telephoto ScreenStar Conversion Lens (SST150):

Image Width (IW)
IW x 0.67 = New Image Width (with Conversion Lens)

Consider that your current image width is 96" and you place a Navitar Telephoto ScreenStar Conversion Lens in front of the projector's standard lens, your new, smaller image width will be:

IW x 0.67 = New Image Width
96" x 0.67 = **64" New Image Width**

Q. How do I calculate my new projection distance using a Navitar ScreenStar lens?

A1. Use the following formula to calculate your new projection distance using the Navitar 0.65X Wide-angle ScreenStar Conversion Lens (SSW065):

Distance (D)
D x 0.65 = New Distance (with Conversion Lens)

Consider that you currently place your projector at a distance of 13 feet from the screen. If you place a Navitar SSW065 Wide-angle ScreenStar Conversion Lens in front of the projector's standard lens, to maintain the same image size, you'll be able to move your projector 50% closer to the screen. Your new, closer distance will be:

D x 0.65 = New Distance
13 ft. x 0.65 = **8.45 ft. New Distance**

A2. Use the following formula to calculate your new projection distance using the Navitar 0.8X Wide-angle ScreenStar Conversion Lens (SSW08):

Distance (D)
D x 0.8 = New Distance (with Conversion Lens)

Consider that you currently place your projector at a distance of 20 feet from the screen. If you place a Navitar SSW08 Wide-angle ScreenStar Conversion Lens in front of the projector's standard lens, to maintain the same image size, you'll be able to move your projector 20% closer to the screen. Your new, closer distance will be:

D x 0.8 = New Distance
20 ft. x 0.8 = **16 ft. New Distance**

A3. Use the following formula to calculate your new projection distance using the Navitar 1.2X Telephoto ScreenStar Conversion Lens (SST120):

Distance (D)
D x 1.2 = New Distance (with Conversion Lens)

Consider that you currently place your projector at a distance of 20 feet from the screen. If you place a Navitar SST120 Telephoto ScreenStar Conversion Lens in front of the projector's standard lens, to maintain the same image size, you'll be able to move your projector 20% farther away from the screen. Your new, longer distance will be:

D x 1.20 = New Distance
20 ft. x 1.20 = **24 ft. New Distance**

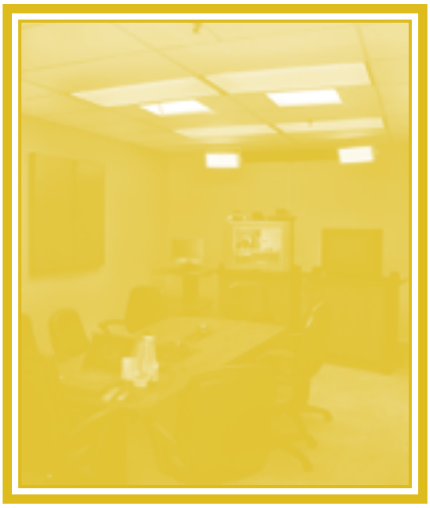
A4. Use the following formula to calculate your new projection distance using the Navitar 1.5X Telephoto ScreenStar Conversion Lens (SST120):

Distance (D)
D x 1.5 = New Distance (with Conversion Lens)

Consider that you currently place your projector at a distance of 13 feet from the screen. If you place a Navitar SST150 Telephoto ScreenStar Conversion Lens in front of the projector's standard lens, to maintain the same image size, you'll be able to move your projector 50% farther away from the screen. Your new, longer distance will be:

D x 1.50 = New Distance
13 ft. x 1.50 = **19.5 ft. New Distance**

Hi-Lite Videoconference Lighting



Dramatically Improve Your Videoconferencing Presentations

Navitar Hi-Lites are engineered to provide the highest quality of diffused light for digital imaging. Video cameras attain peak performance between 2800°K to 4100°K. With a color temperature of 3200°K and a Color Rendering Index (CRI) of 82, our bulbs set the standard for high quality videoconference lighting. The optional dimming feature on the Hi-Lite units allows the light intensity to be adjusted to provide more key light for people with darker skin tones and less for those with lighter complexions. Adjustable lighting also provides essential fill light, which fills in dark areas and dead spots left by conventional lighting. The result is a sharp, crisp picture with a remarkable improvement in contrast and definition.

Choose Original or Recessed Hi-Lites

Two different series of Hi-Lites are available from Navitar, the Recessed Series and the Original Series. Choose the style of lighting that best fits your videoconferencing room environment. Each series offers a choice of dimming preferences and multiple operating voltages.

Recessed Hi-Lite Series (XLR, EXR and NXR)

- Recessed flush-mount enclosure.
- Available in 110, 220-240 or 277 volts.
- Dimmable (built-in infrared or external) or non-dimmable.
- Low-profile construction.
- Directional, diffused light source.
- Removable electronic chassis.

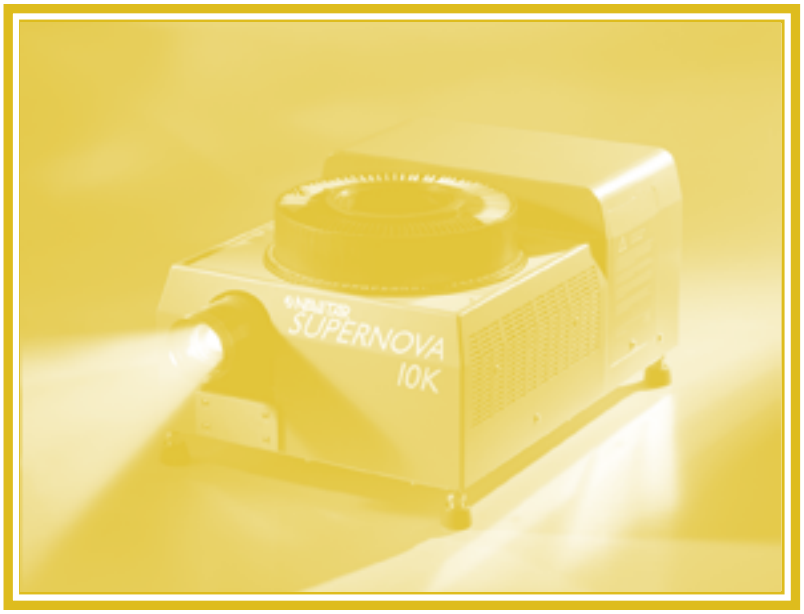
Ideal for high-end boardrooms and conference rooms, Recessed Series Hi-Lites provide the high-quality lighting required by videoconferencing cameras without compromising the aesthetics of the boardroom. Recessed Hi-Lites feature multiple dimming options and operating voltages. The XLR model includes a built-in infrared dimmer, the EXR is wired for external three-wire dimming systems, and the NXR is our non-dimming recessed model. All three recessed models include two 50-watt, 3500°K compact fluorescent lamps in a flush-mount, recessed enclosure. Each light also includes an installation kit complete with safety cables and electrical connectors.

Original Hi-Lite Series (XL, EX and NX)

- Ceiling or tripod installation.
- Portable for easy relocation of lighting unit.
- Available in 110, 220-240 or 277 volts.
- Dimmable (built-in infrared or external) or non-dimmable.
- Adjustable positioning allows lights to be rotated and tilted up to 180°.
- Directional, diffused light source.

Recently redesigned to accommodate a wider variety of ceiling grids, operating voltages and dimming options. The Original Series includes three compact fluorescent T5 lamps, an opal diffuser, and an electronic dimming ballast. The XL model includes a built-in infrared dimmer, the EX is wired for external three-wire dimming systems, and the NX is our non-dimming model. Each light also includes an installation kit complete with ceiling grid adapters and safety cables.

10K High Intensity Slide Projector



Advantages of the New Navitar 10K Series

- Digital projector technology.
- Metal halide lamp system for lower cost of operation.
- Full RS-232 operation.
- Random slide access compatibility.
- Improved corner illumination.

The Ultimate High-Performance Projector

The new Navitar 10K is a high-performance, processor controlled, slide projector offering the highest light output with both RS-232 and Kodak 5-pin type remote control possibilities. This new projector has complete digital processor control resulting in less mechanical functions, higher accuracy and reliability as compared to previous mechanical based models.

Enhanced Corner Illumination System

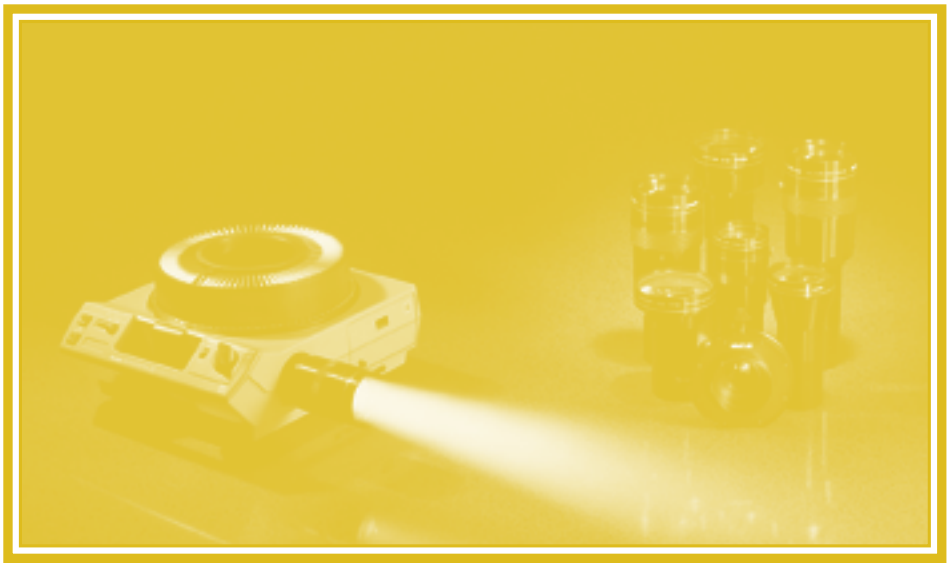
Due to our new even illumination system, there is an almost perfect dispersion of the light without the typical loss of light in the corners of the screen associated with traditional analog based slide projectors. The high performance HTI 400-watt metal halide lamp provides 5900 lumens of superior light output.

Maximum Brightness Slide Presentations

Now slides can be displayed with a maximum light output that meets the necessities of today's AV presenter. Designed to be used at high-end conferences or meetings in large auditoriums, lecture halls and conventions.

Navitar, Inc. ▪ Phone 800-828-6778 or 585-359-4000 ▪ Fax 585-359-4999 ▪ Email info@navitar.com

Slide Lenses



High Definition Lenses to Fill Every Size Screen

When you use a state-of-the-art Navitar lens for your slide presentation, you can be sure that the projected image you see on-screen is a razor sharp, accurate likeness of your original slide image. Don't compromise your presentation by using a cheap plastic lens. Navitar uses only the highest quality materials in the construction of our lenses. Our quality glass lens elements and metal barrels, combined with rigid manufacturing standards and superior, time-proven optical design, will keep your slide images sharp and bright and will eliminate the yellowish haze produced by less expensive lenses.

We Guarantee Our Workmanship for the Lifetime of the Lens

Navitar Lenses are designed and manufactured in the USA to be the best in the world. In fact, we have so much confidence in the quality of our workmanship that we're willing to back our reputation with a guarantee that lasts the lifetime of the lens.

Designed to Let You Read the Fine Print

Navitar's unsurpassed optical quality ensures that your slides will be sharp from center to edge with optimum brightness, color fidelity and image contrast. Our optical engineers have paid special attention to ensure that whites are very white and blacks are very black. The resulting increase in contrast enhances resolution so that text and graphic slides are easier to read and color slides are more vibrant and alive on-screen. You'll be able to keep your audience's full attention from the beginning to the end of your presentation.

Available Models

- **Zoom Lenses** Vary your image size to completely fill the screen, no matter how unpredictable the projector-to-screen distance. With Navitar Zoom lenses, images stay sharp and bright at any point without "pin cushioning" or "barreling" distortion. A zoom lock screw allows precise positioning required in multi-image presentations.

- **Lens Support Brackets** Navitar support brackets stabilize long focal length and zoom lenses.

NAVITAR

Navitar, Inc. and its subsidiaries form a network of companies that produce leading edge optical and video technologies for the fastest growing segments of the world's economy. The Navitar network of companies are market leaders in the design, development, manufacture, and distribution of advanced optical and video products for AV, visual communications, videoconferencing, machine vision, photonics, and fiber optic industries. Our products have an international reputation for quality and are sold worldwide.



Photonics - Navitar Coating Labs

Navitar produces vacuum deposited and sputtered coatings for UV, visible and IR applications. Solderable coatings are produced using Navitar's sputtered process allowing glass to be soldered to metal for military, aerospace and other applications. A wide range of specialty type coated products include coatings for high intensity lamp reflectors, large contrast enhancement protected silver mirrors, and mini mirrors for use in telecommunications. Corrosion resistant gold coatings for use in fiber optics, telecommunications and military applications are also produced.

Optical Solutions for Machine Vision, Automation, Assembly, Imaging, Measuring, Inspection, & Biomedical Imaging

Navitar's innovation and expertise in optical design and manufacturing are recognized throughout the world. In addition to our superior quality Zoom 6000 and 12X Zoom video inspection systems, Precise Eye systems, and video lenses, we now offer auto focus zooms, high speed optics for larger sensor sizes, fluorescent zoom systems, multi-magnification fixed lenses, solid-state motorized systems, and coaxial LED illumination. Best of all, we have the experience to deliver optical solutions when promised, with consistent quality and repeatable performance, month after month.

Videoconferencing - PicturePhone Direct

The PicturePhone Direct subsidiary was created in 1994 as a direct business-to-business reseller of leading brands of videoconferencing equipment including Polycom, Sony, Canon, and more. Call your local Navitar sales representative to find out how to get discounts for PicturePhone videoconferencing equipment.

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See exactly how our products are designed.

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Get the most up-to-date information on the newest Navitar products.

Need Custom?

Call and challenge us to design a custom optical system to fit your needs. We've been in business a long time and chances are we've already done something similar to what you're looking for.

AutoCad Files Available

If you require AutoCad files for your OEM applications, please call us at 585-359-4000 or 1-800-828-6778, or fax your request to 585-359- 4999.

Or, you can download the files directly from our Web site at http://navitar.com/

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