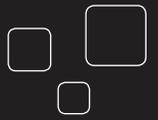


mimio®

MimioProjector 280, 280I, & 280T
User Guide



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MimioProjector 280

You can bring interactive teaching into your classroom by pairing the MimioProjector 280 with either a MimioTouch Board or a MimioTeach and a conventional dry erase board. The MimioProjector 280I Interactive Accessory Kit and MimioProjector 280T Accessory Kit can also be added to your configuration, providing even more interactive features.

MimioProjector 280 easily connects to your computer and can be used as an interactive projector, touch projector, or alone as a non-interactive, conventional projector.

MimioProjector 280

You can pair the MimioProjector 280 with a MimioTeach and conventional whiteboard or with a MimioTouch board.

MimioProjector 280I Interactive Accessory Kit

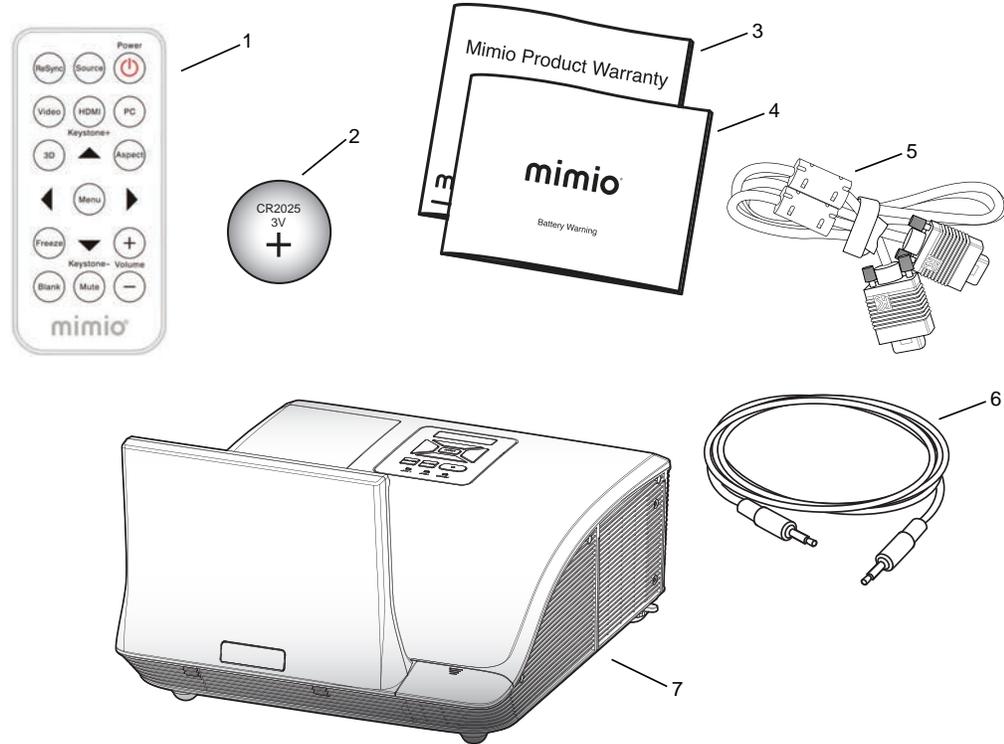
The MimioProjector 280I Interactive Accessory Kit turns the MimioProjector 280 into an interactive whiteboard. See **MimioProjector Accessory Kits** on page 58 for more information.

MimioProjector 280T Touch Accessory Kit

The MimioProjector 280T Touch Accessory Kit turns the MimioProjector 280 into a touch projector. See **MimioProjector Accessory Kits** on page 58 for more information.

What's Included

The MimioProjector package contains the following items:

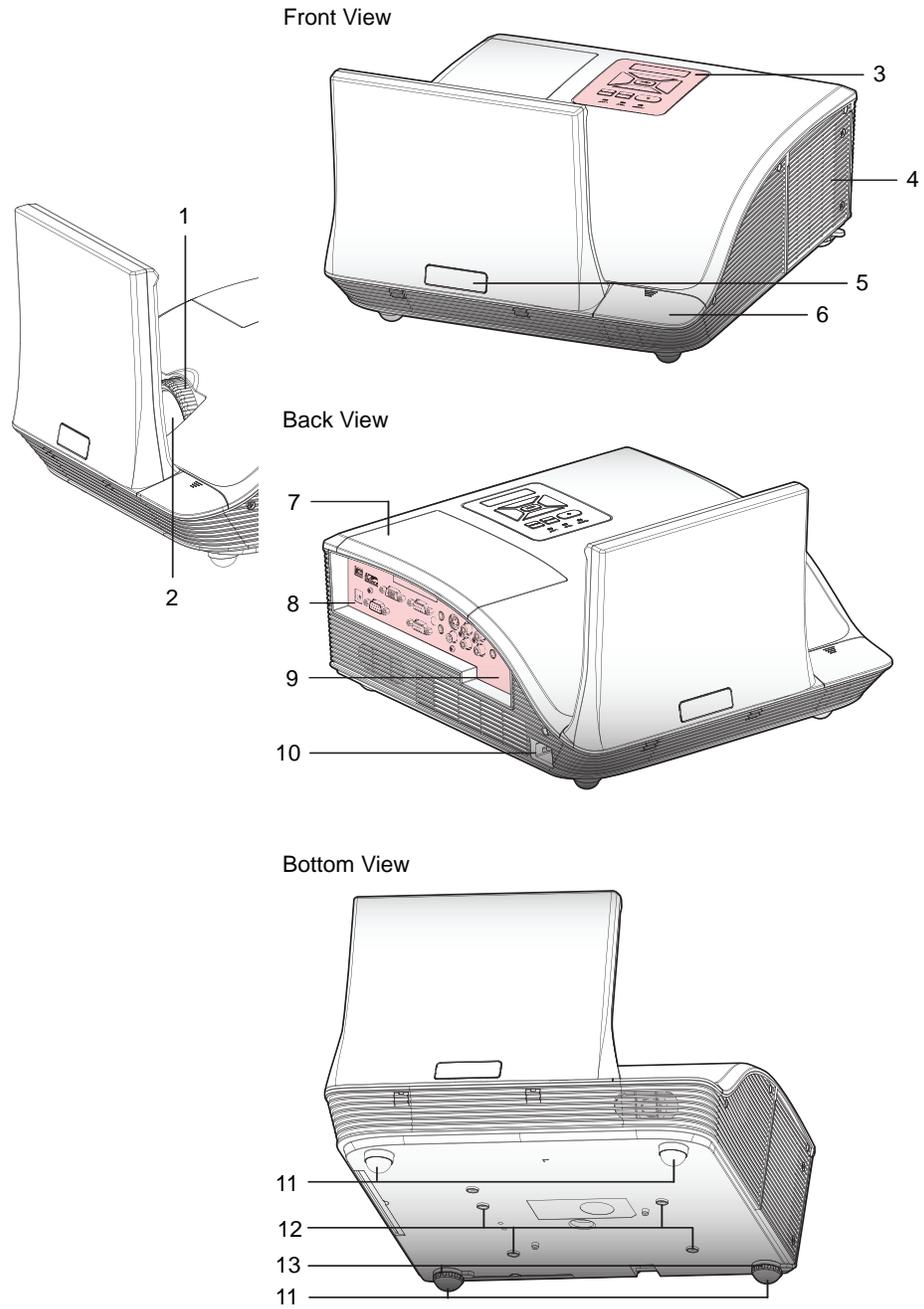


1	Remote control	5	5 mm VGA cable
2	Remote control battery	6	5 mm audio cable
3	Mimio Product Warranty card	7	Projector with lens cap
4	Mimio Battery Warning booklet		

If you are missing any of the items above, contact Technical Support.

About MimioProjector 280

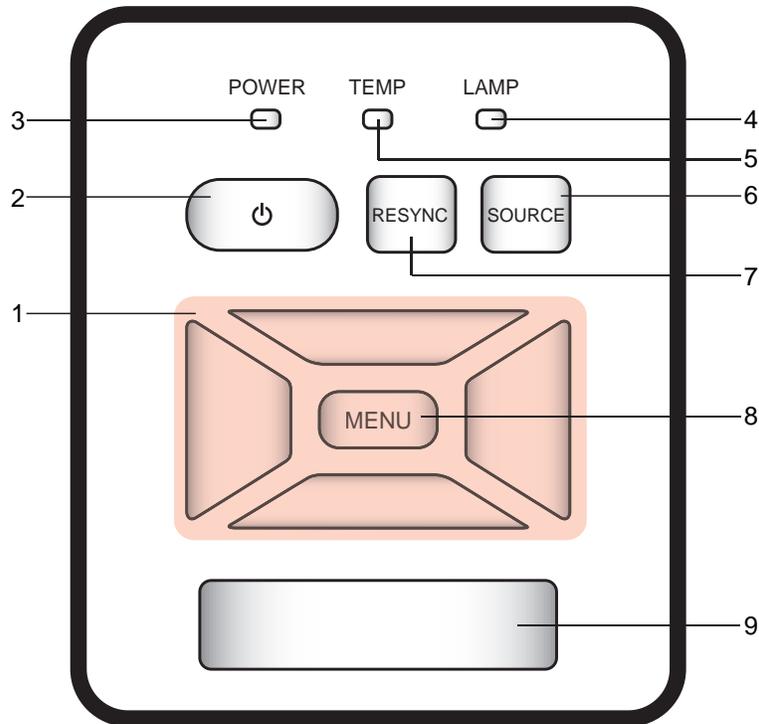
The following figure shows the major components of the MimioProjector 280.



1	Focus ring	8	Input/Output connection ports
2	Lens	9	Serial number
3	Control panel	10	Power connector
4	Lamp cover	11	Elevator feet
5	IR receiver	12	Mounting bracket attachment holes
6	IR Module attachment cover	13	Elevator feet spacers
7	Access cover		

About the Control Panel

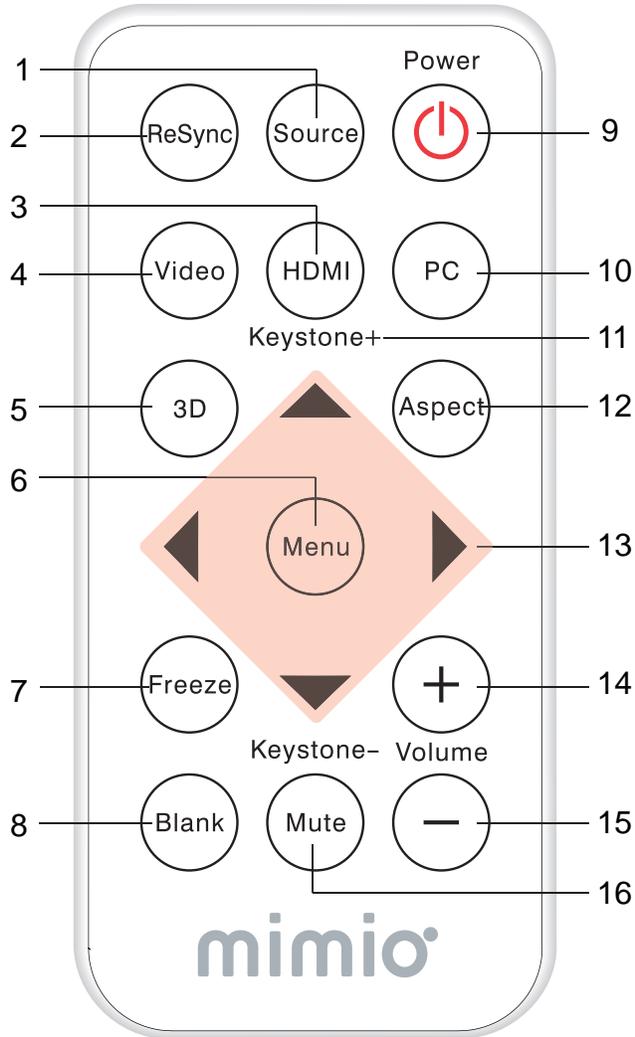
The following figure shows the components of the MimioProjector control panel.



1	Navigation keys	Navigate through menus and make selections.
2	Power button	Turn the projector on and off.
3	Power status light	Indicates the power status of the projector.
4	Lamp status light	Indicates the projector lamp status.
5	Temperature status light	Indicates the projector temperature status.
6	Source button	Select an input signal.
7	Resync button	Automatically synchronize the PC analog timing to the optimized condition.
8	Menu/Exit button	Open the menu screen or exit a menu.
9	IR receiver	Used by remote control.

About the Remote Control

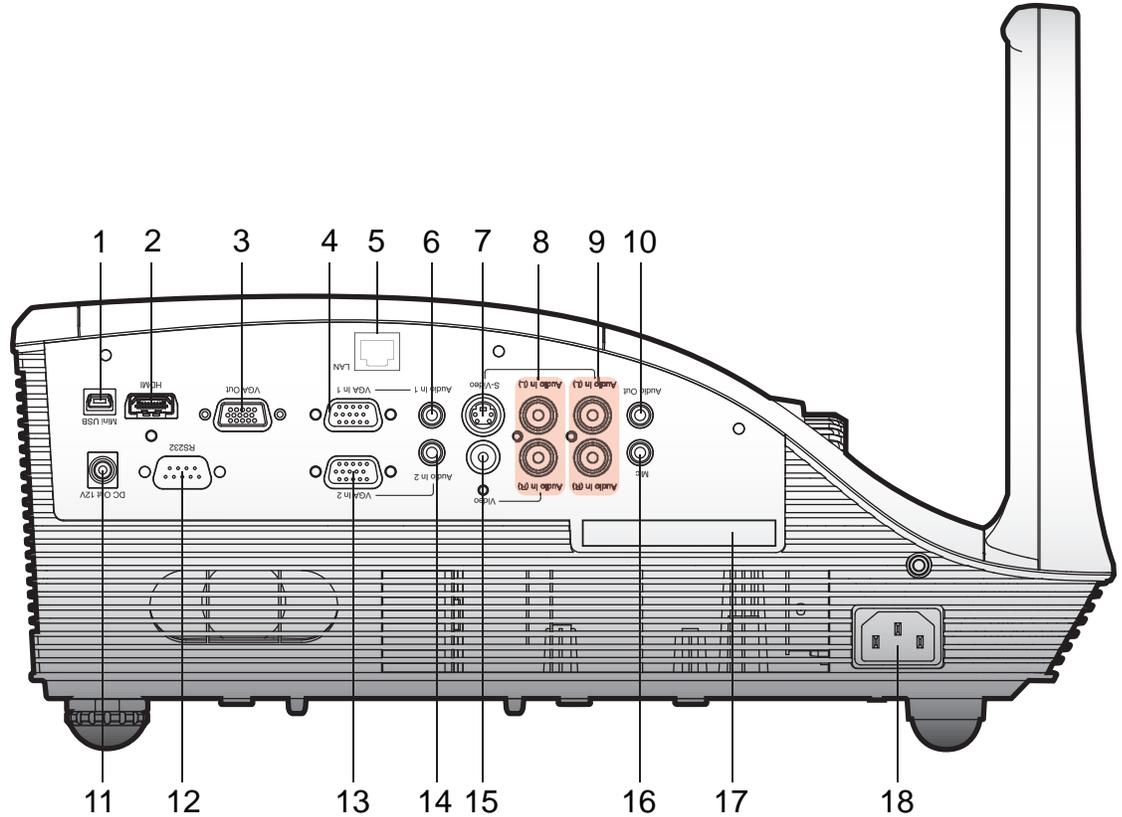
The following figure shows the components of the MimioProjector remote control.



1	Source	Select an input signal.
2	Resync	Automatically synchronize the PC analog timing to the optimized condition.
3	HDMI	Switch to HDMI input.
4	Video	Switch to Composite Video or S-Video input.
5	3D	Turn on and off the 3D menu.
6	Menu	Open the menu screen or exit a menu.
7	Freeze	Freeze or unfreeze the image on the screen.
8	Blank	Hide or show the screen image. Audio is not affected when screen image is hidden. When Blank is activated, an icon appears in the upper-left corner of the screen.
9	Power	Turn the projector on or off.
10	PC	Switch to VGA-A/VGA-B input.
11	Keystone 	Adjust image until the sides are vertical.
12	Aspect ratio	Select the desired aspect ratio.
13	Navigation keys	Navigate through menus and make selections.
14	Volume up	Increase the audio volume.
15	Volume down	Decrease the audio volume.
16	Mute	Mute the audio.

About the Connection Ports

The following figure shows the connection ports available on the MimioProjector .



1	Mini-USB	10	Audio output
2	HDMI	11	Laser curtain
3	VGA output	12	RS232
4	VGA in 1	13	Audio in 2 (for VGA in 2)
5	LAN RJ46	14	Audio in 2 (for VGA in 2)
6	Audio in 1 (for VGA in 1)	15	Video
7	S-Video	16	Microphone
8	Left/Right RCA audio input (for composite video input)	17	Serial number
9	Left/Right RCA audio input (for S-Video)	18	Power

Getting Started

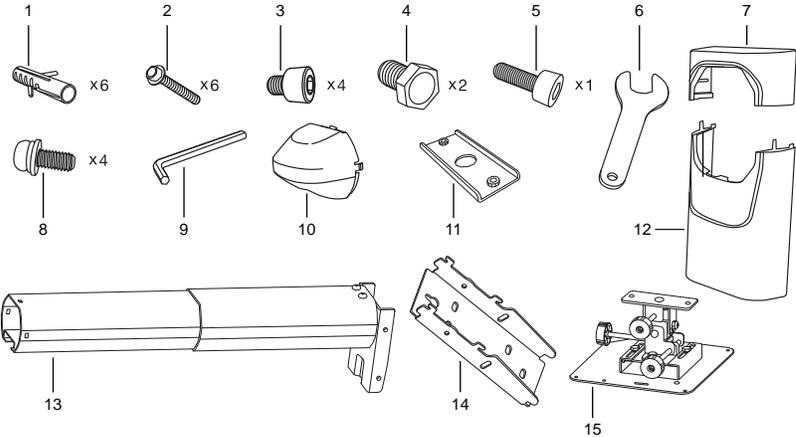
Review this chapter to install and start using your MimioProjector.

Installing the Projector

This section describes how to install and align the MimioProjector and wall mount.

What's Included

The MimioProjector mount package contains the following items:



1	Wall anchors	9	Hex wrench
2	Flange head cap screw	10	Mounting arm cover
3	Socket head cap screw	11	Clamping plate
4	Cap head screw	12	Wall mount cover bottom
5	Socket head cap screw	13	Mounting arm
6	Wrench	14	Mounting arm wall bracket
7	Wall mount cover top	15	Projector mounting plate
8	Machine screw and washer		

If you are missing any of the items above, contact Technical Support.

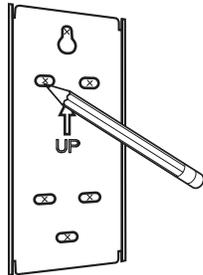
Mounting MimioProjector

Before installing the projector wall mount, you must first determine the projected image size. This will determine the placement of the mount on the wall as well as the distance of the projector from the wall. See **Determining Where to Mount MimioProjector** on page 20 for more information.

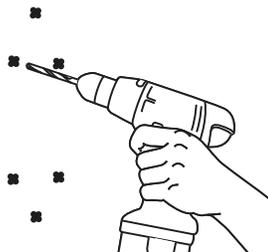
⚠ WARNING: Failure to provide adequate structural strength for the wall mount and projector can result in serious personal injury or damage to equipment. It is the installer's responsibility to make sure the structure to which the wall mount is attached can support five times the combined weight of all equipment. Reinforce the structure as required before installing the wall mount.

To install the projector wall mount

1. Determine the desired location of the projector wall mount.
See **Determining Where to Mount MimioProjector** on page 20 for more information.
2. Tape the included template to the wall in the desired location, based on the desired image size.
3. Using a pencil, make a mark on the wall for each hole indicated on the template.

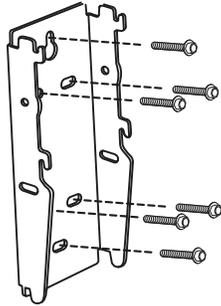


4. Drill a hole in the location of each mark you made on the wall. There will be a total of six holes.

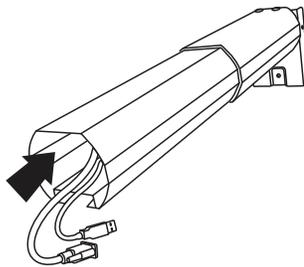


5. Remove the template from the wall.

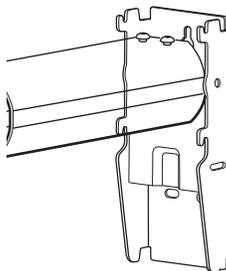
6. Align the holes on the wall mount bracket with the holes that you drilled and attach the bracket to the wall using fasteners appropriate to the wall surface type.



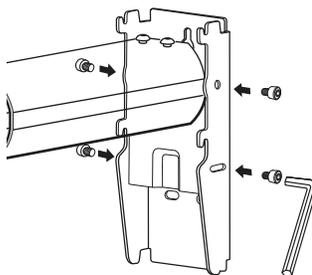
7. Feed all projector cables through the mounting arm.



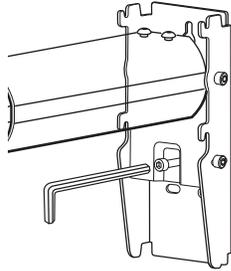
8. Insert the mounting arm into the wall bracket.



9. Insert a screw into each of the four holes on the sides of the wall bracket and tighten using the included allen wrench.

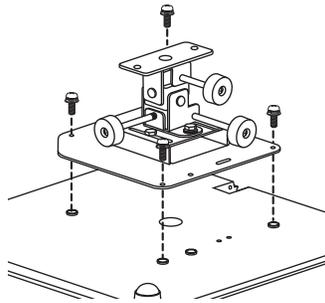


10. Insert the long socket head cap screw into the hole in the center of the wall bracket, below the mounting arm, and tighten using the included hex wrench.

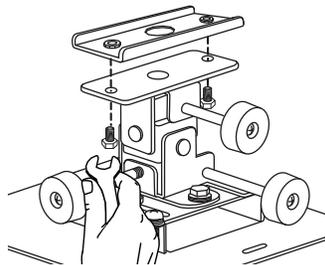


This screw allows for leveling the mounting arm.

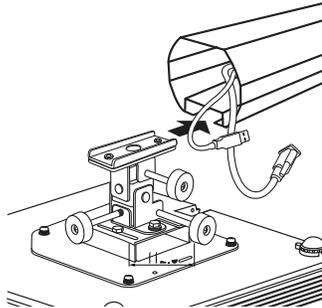
11. Align the holes in the projector mounting plate with the holes on the bottom of the projector and screw into place using the machine screws and washers.



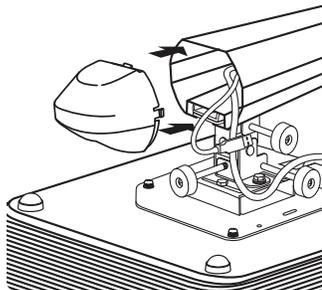
12. Align the holes on the clamping plate with the holes on the back of the mounting plate and screw into place using the cap head screws.



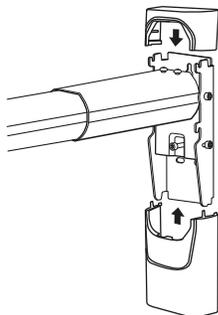
- Slide the projector mounting plate into the mounting arm as shown.



- Plug the cables into the appropriate ports on the projector. See **Connecting the Projector** on page 39 for more information.
- Slide the mounting arm cover onto the end of the mounting arm and push to lock in place..



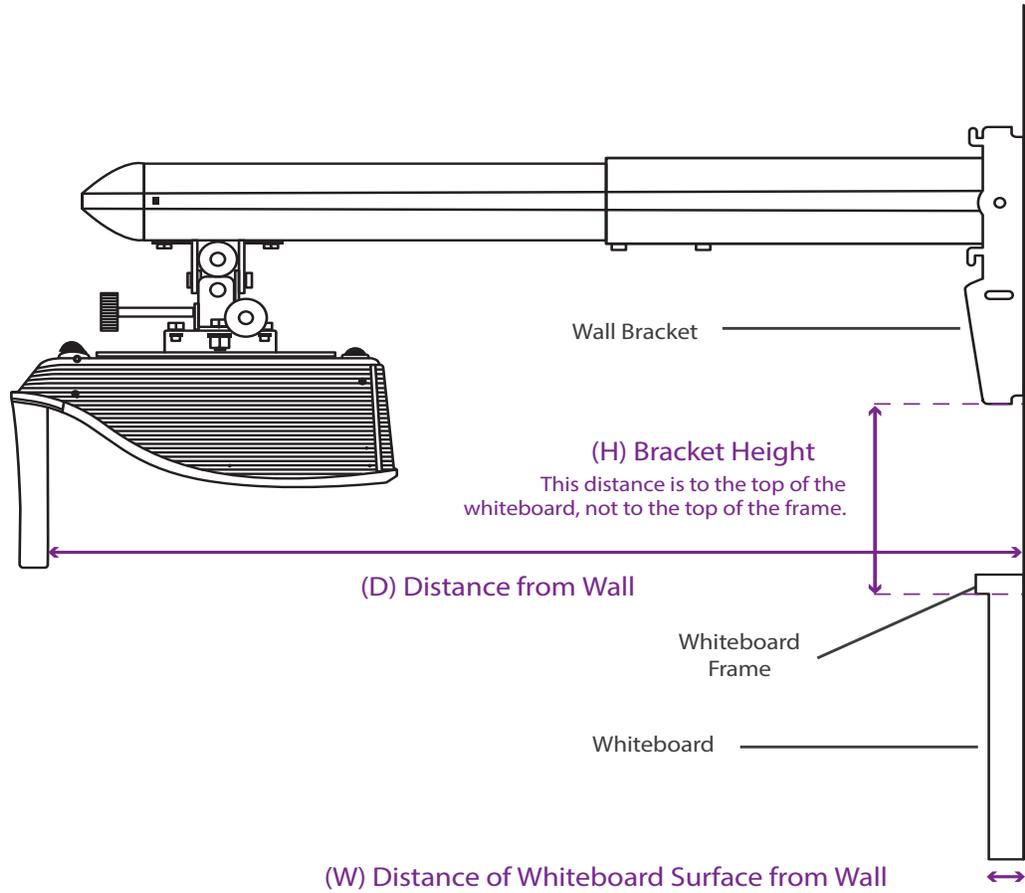
- Slide the wall bracket covers onto the top and bottom of the wall bracket and push to lock in place.



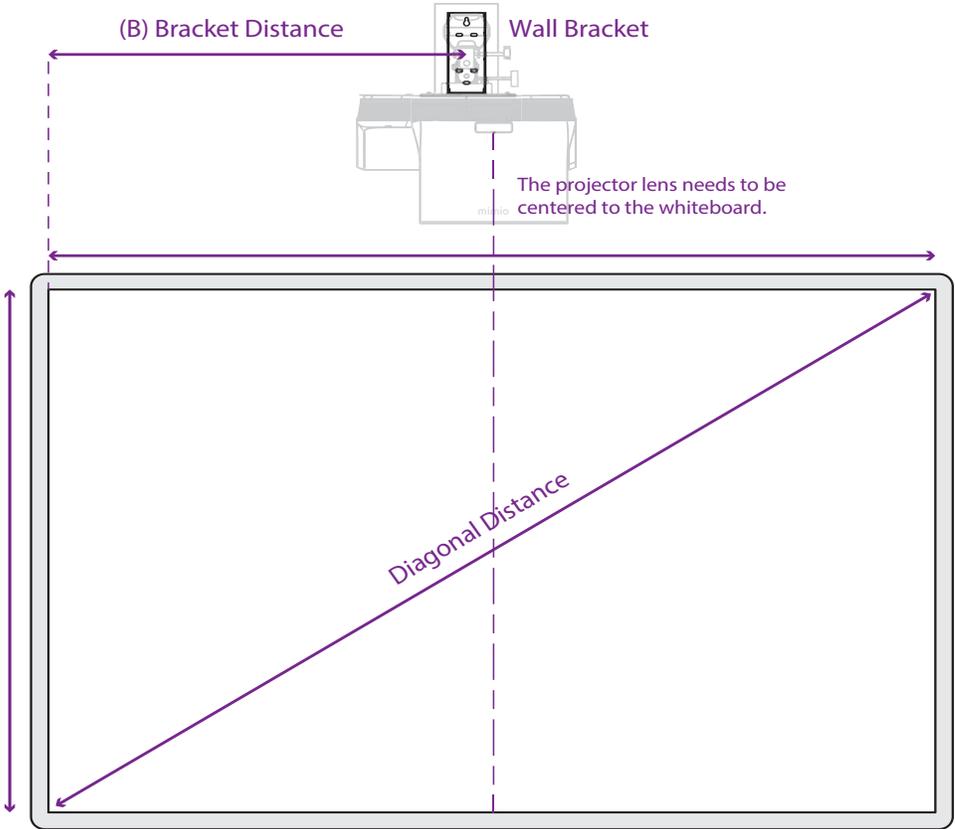
Determining Where to Mount MimioProjector

To determine where to mount the MimioProjector mounting arm and the placement of the MimioProjector 280 on the mounting arm, refer to the charts on page 22 and on page 23. Select the diagonal (WXGA or XGA) and use the dimensions shown.

If mounting the projector for use as a touch projector, with the MimioProjector 280T Accessory Kit, see **Determining Where to Mount MimioProjector with 280T Accessory Kit** on page 24.



When centering on your whiteboard, position the lens of the projector at the horizontal center of the board. The wall mount bracket is offset 3 inches (76 mm) from the center of the lens.



Mounting Arm Placement for 16:9 Aspect WXGA Resolution - 1280 x 800										
Board Dimensions										
Diagonal WXGA	Height		Width		Distance		Bracket		Distance from left edge of board to center of Wall Mount	
	Inches	MM	Inches	MM	Inches	MM	Inches	MM	Inches	MM
70	34	864	61	1549	20 3/8	517	8 3/8	213	27 1/2	699
71	35	889	62	1575	20 5/8	524	8 1/2	216	28	711
72	35	889	63	1600	30	532	8 1/2	216	28 1/2	724
73	36	914	64	1626	21 1/4	540	8 3/4	222	29	737
74	36	914	64	1626	21 5/8	548	8 7/8	225	29	737
75	37	940	65	1651	22	556	9	229	29 1/2	749
76	37	940	66	1676	22 1/4	564	9 1/8	232	30	762
77	38	965	67	1702	22 1/2	572	9 1/4	235	30 1/2	775
78	38	965	68	1727	22 7/8	580	9 3/8	238	31	787
79	39	991	69	1753	23 1/8	588	9 1/2	241	31 1/2	800
80	39	991	70	1778	23 1/2	597	9 5/8	244	32	813
81	40	1016	71	1802	23 7/8	604	9 3/4	248	32 1/2	826
82	40	1016	71	1802	24 1/8	612	10	254	32 1/2	826
83	41	1041	72	1829	24 1/2	621	10 1/8	257	33	838
84	41	1041	73	1854	24 3/4	629	10 1/4	260	33 1/2	851
85	42	1067	74	1879	25	637	10 3/8	264	34	864
86	42	1067	75	1905	25 3/8	645	10 1/2	267	34 1/2	876
87	43	1092	76	1930	25 3/4	655	10 5/8	270	35	889
88	43	1092	77	1956	26	661	10 3/4	273	35 1/2	902
89	44	1118	78	1981	26 3/8	669	10 7/8	276	36	914
90	44	1118	78	1981	26 5/8	677	11	279	36	914
91	45	1143	79	2007	27	685	11 1/8	283	36 1/2	927
92	45	1143	80	2032	27 3/8	694	11 1/4	286	37	940
93	46	1168	81	2057	27 5/8	702	11 3/8	289	37 1/2	953
94	46	1168	82	2082	28	710	11 1/2	29	38	965
95	47	1194	83	2108	28 1/4	718	11 5/8	295	38 1/2	978
96	47	1194	84	2134	28 3/4	731	11 7/8	302	39	991
97	48	1219	85	2159	29	734	12	305	39 1/2	1003
98	48	1219	85	2159	29 1/4	743	12 1/8	308	39 1/2	1003
99	49	1245	86	2184	29 1/2	751	12 1/8	308	40	1016
100	49	1245	87	2210	29 7/8	759	12 1/4	311	40 1/2	1029

Mounting Arm Placement for 4:3 Aspect XGA Resolution - 1024 x 768										
Board Dimensions										
Diagonal WXGA	Height		Width		Mounting Bracket Placement Dimensions					
	Inches	MM	Inches	MM	Distance		Bracket		Distance from left edge of board to center of Wall Mount	
					Inches	MM	Inches	MM	Inches	MM
70	42	1067	56	1422	24 1/4	616	9 7/8	251	25	635
71	42 5/8	1083	56 3/4	1441	24 5/8	626	10	254	25 3/8	645
72	43 1/4	1099	57 1/2	1460	25	636	10 1/8	257	25 3/4	654
73	43 7/8	1114	58 3/8	1483	25 3/8	646	10 3/8	264	26 3/16	665
74	44 3/8	1127	59 1/8	1502	25 3/4	655	10 1/2	267	26 9/16	675
75	45	1143	60	1524	26 1/8	665	10 3/4	273	27	686
76	45 5/8	1160	60 3/4	1543	26 1/2	674	10 7/8	276	27 3/8	695
77	46 1/4	1175	61 1/2	1562	27	684	11	279	27 3/4	705
78	46 7/8	1191	62 3/8	1584	27 1/4	693	11 1/4	286	28 3/16	716
79	47 3/8	1203	63 1/8	1693	27 5/8	703	11 3/8	289	28 9/16	725
80	48	1219	64	1626	28	712	11 1/2	292	29	737
81	48 5/8	1235	64 3/4	1645	28 3/8	722	11 3/4	298	29 3/8	746
82	49 1/4	1251	65 1/2	1664	28 7/8	732	11 7/8	302	29 3/4	756
83	49 7/8	1267	66 3/8	1686	29	736	12	305	30 3/16	767
84	50 3/8	1280	67 1/8	1705	29 3/8	746	12 1/4	311	30 9/16	779
85	51	1295	68	1727	29 3/4	755	12 3/8	314	31	787
86	51 5/8	1311	68 3/4	1746	30 1/4	765	12 1/2	318	31 3/8	797
87	52 3/8	1329	69 1/2	1765	30 1/2	775	12 3/4	324	31 3/4	806
88	52 7/8	1343	70 3/8	1788	30 7/8	784	12 7/8	327	32 3/16	818
89	53 3/8	1356	71 1/8	1807	31 1/4	794	13	330	32 9/16	805
90	54	1372	72	1829	31 1/2	802	13 1/4	337	33	838

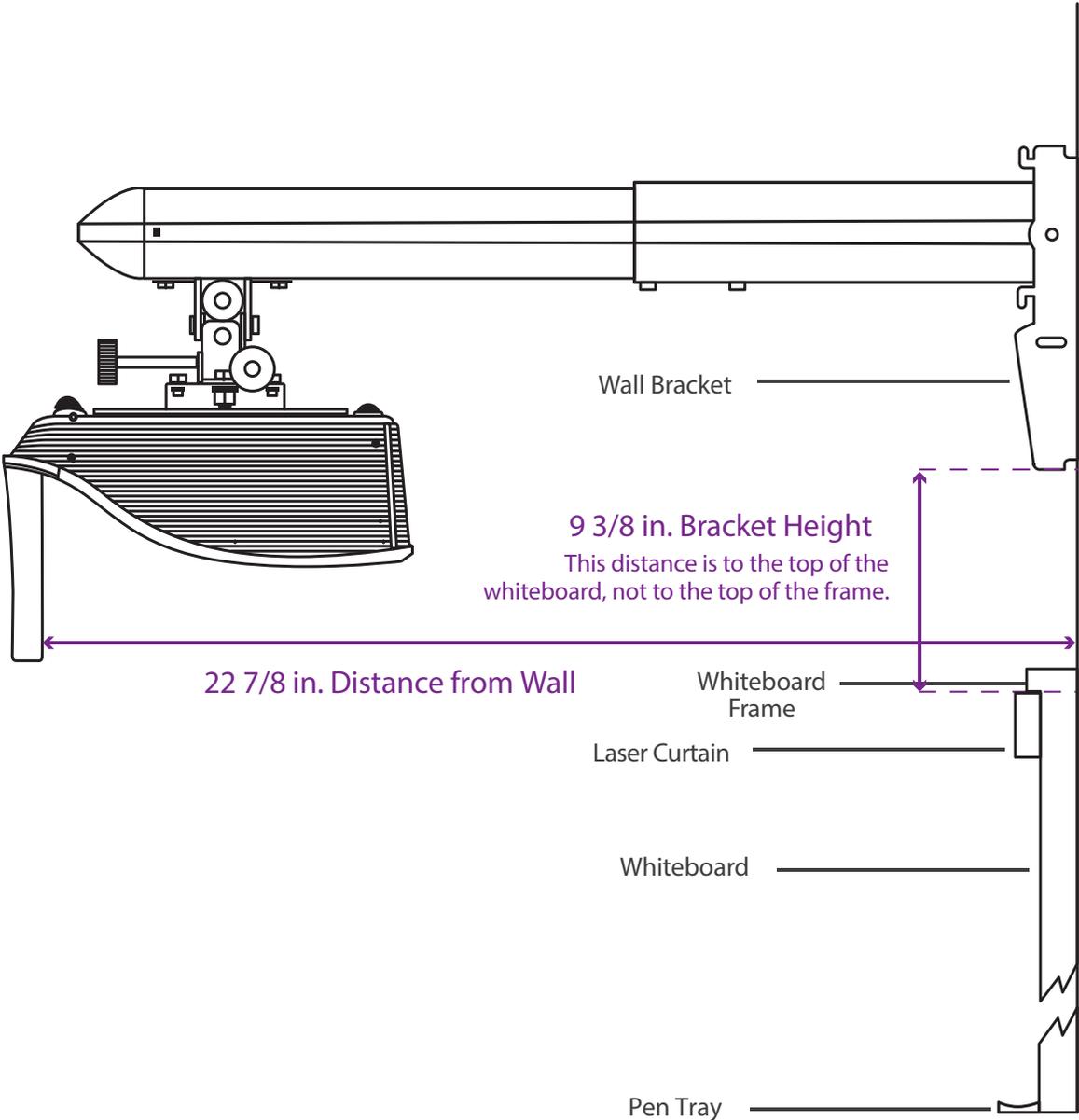
Determining Where to Mount MimioProjector with 280T Accessory Kit

This section describes how to determine where to mount the MimioProjector 280 for use as a touch projector, with the MimioProjector 280T Accessory Kit.

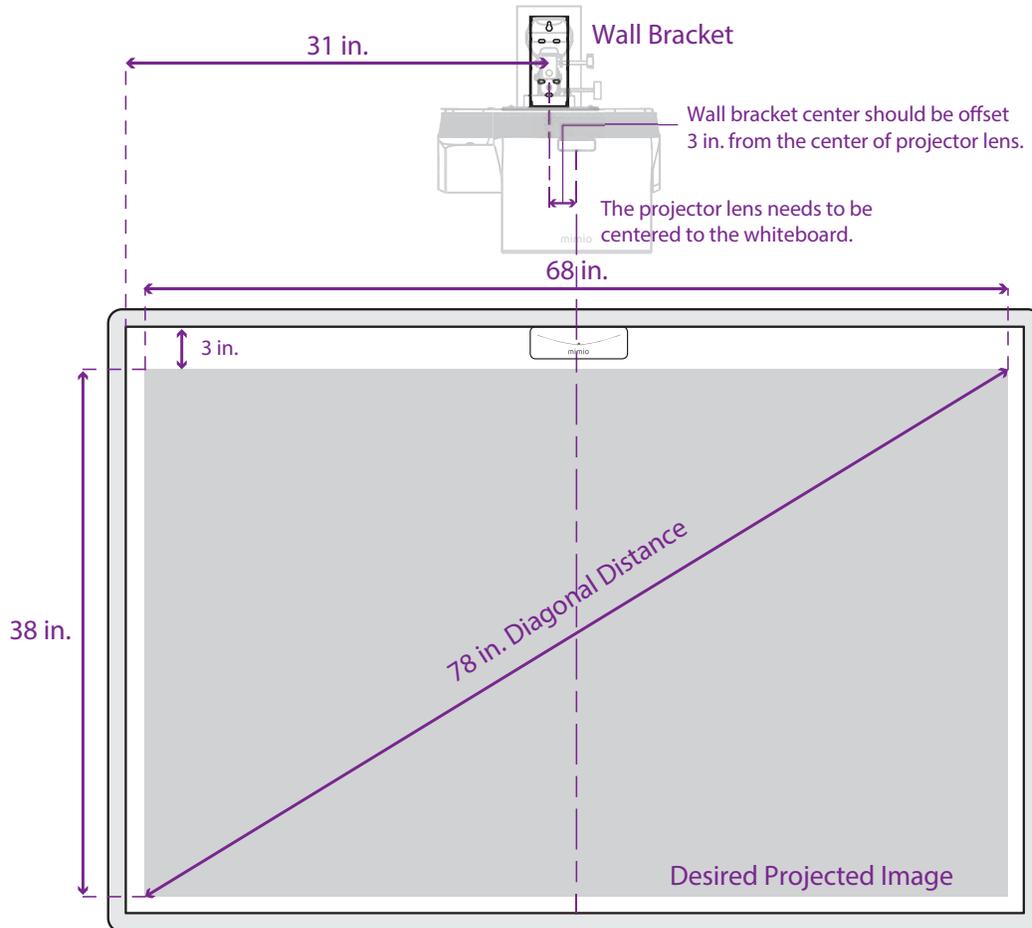
- **Determining Where to Mount MimioProjector 280T with a Standard 78-inch Diagonal WXGA Viewing Image** on page 25
- **Determining Where to Mount a MimioProjector 280T wit a Standard 87-inch Diagonal WXGA Viewing Image** on page 27
- **Placement of 280T Projector with a Framed Whiteboard** on page 30
- **Placement of 280T Projector with a Frameless Whiteboard** on page 33

Determining Where to Mount MimioProjector 280T with a Standard 78-inch Diagonal WXGA Viewing Image

This section describes how to determine where to mount the MimioProjector 280 for use as a touch projector, with the MimioProjector 280T Accessory Kit and a standard 78-inch whiteboard.

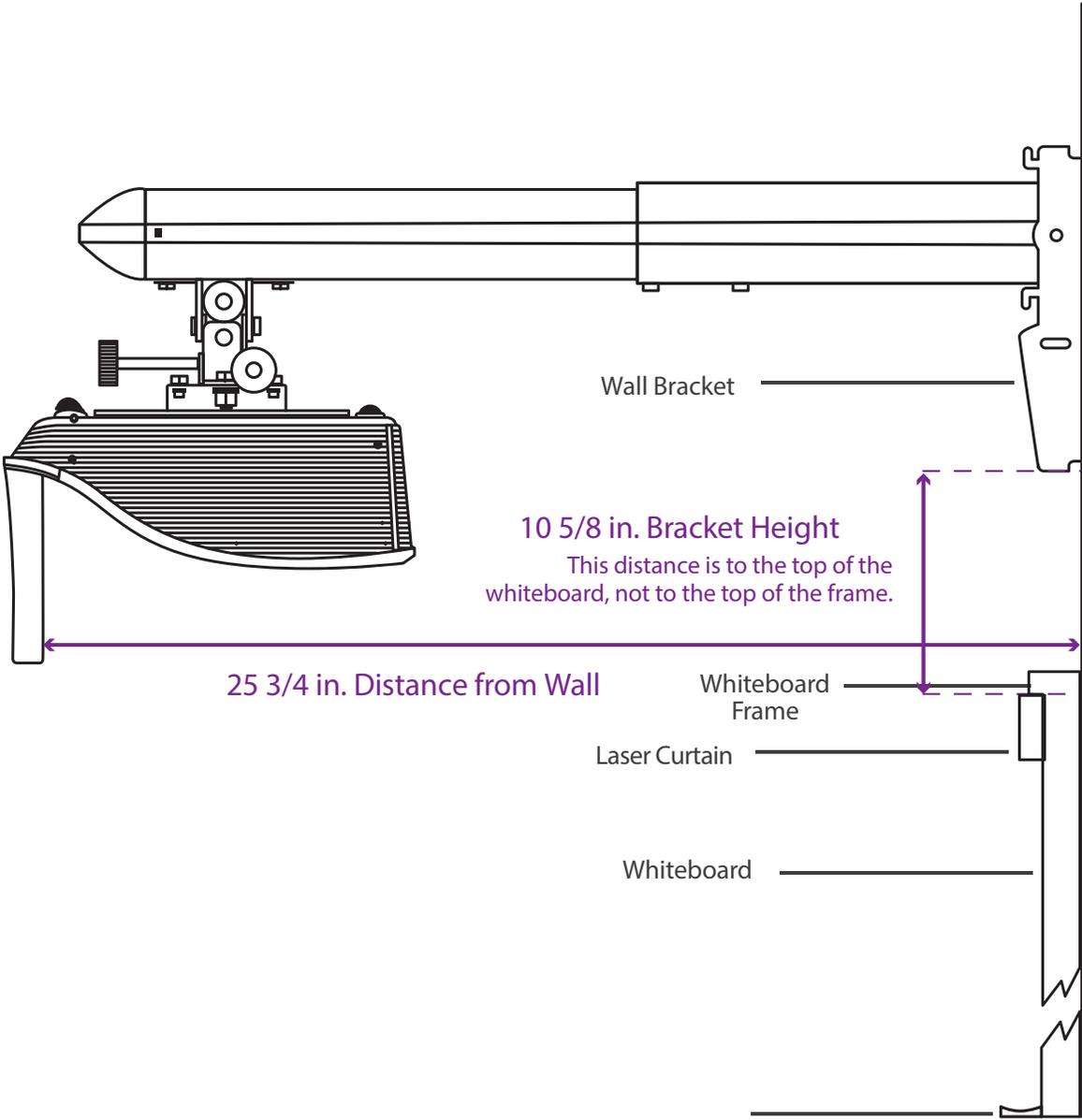


When centering on your whiteboard, position the lens of the projector at the horizontal center of the board. The wall mount bracket is offset 3 inches (76 mm) from the center of the lens.

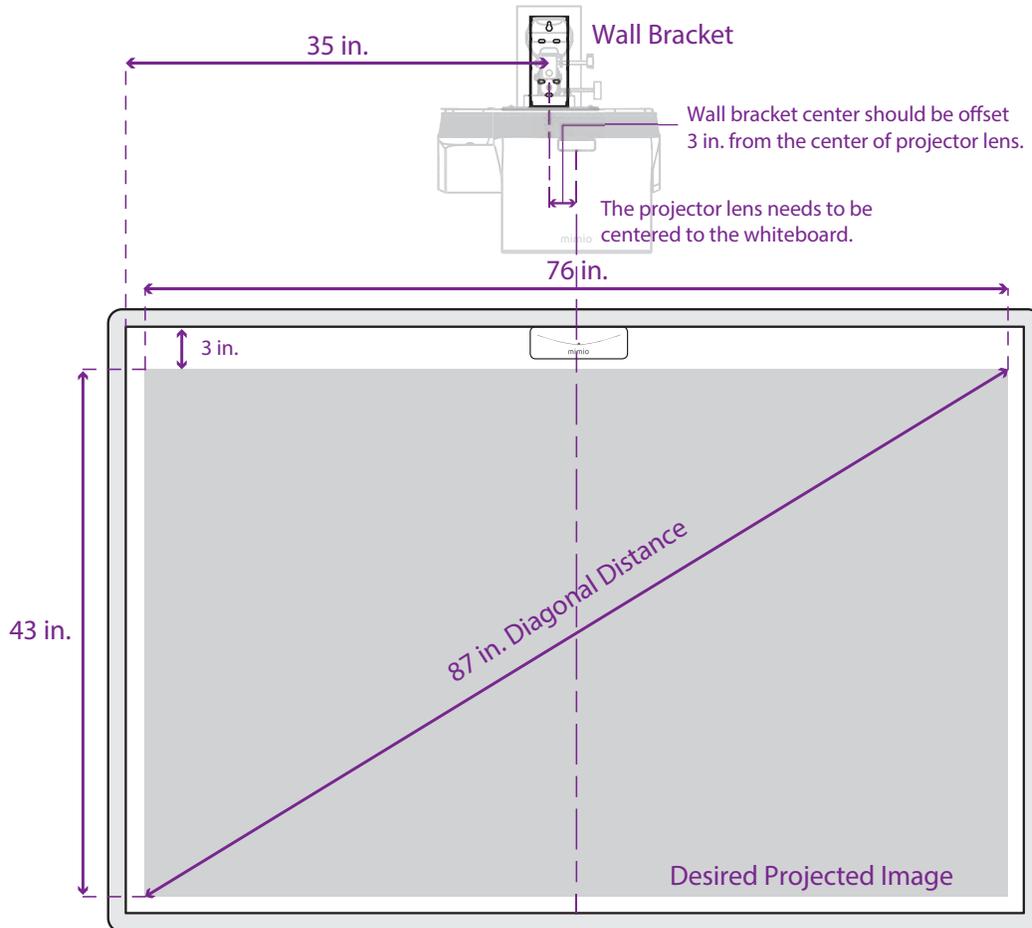


Determining Where to Mount a MimioProjector 280T with a Standard 87-inch Diagonal WXGA Viewing Image

This section describes how to determine where to mount the MimioProjector 280 for use as a touch projector, with the MimioProjector 280T Accessory Kit and a standard 87-inch whiteboard.



When centering on your whiteboard, position the lens of the projector at the horizontal center of the board. The wall mount bracket is offset 3 inches (76 mm) from the center of the lens.



Determining Where to Mount MimioProjector with 280T Accessory Kit (Framed Whiteboard)

This section describes how to determine where to mount the MimioProjector 280 for use as a touch projector, with the MimioProjector 280T Accessory Kit and a framed non-standard sized whiteboard.

To determine the mounting location for MimioProjector 280T for use with a framed whiteboard

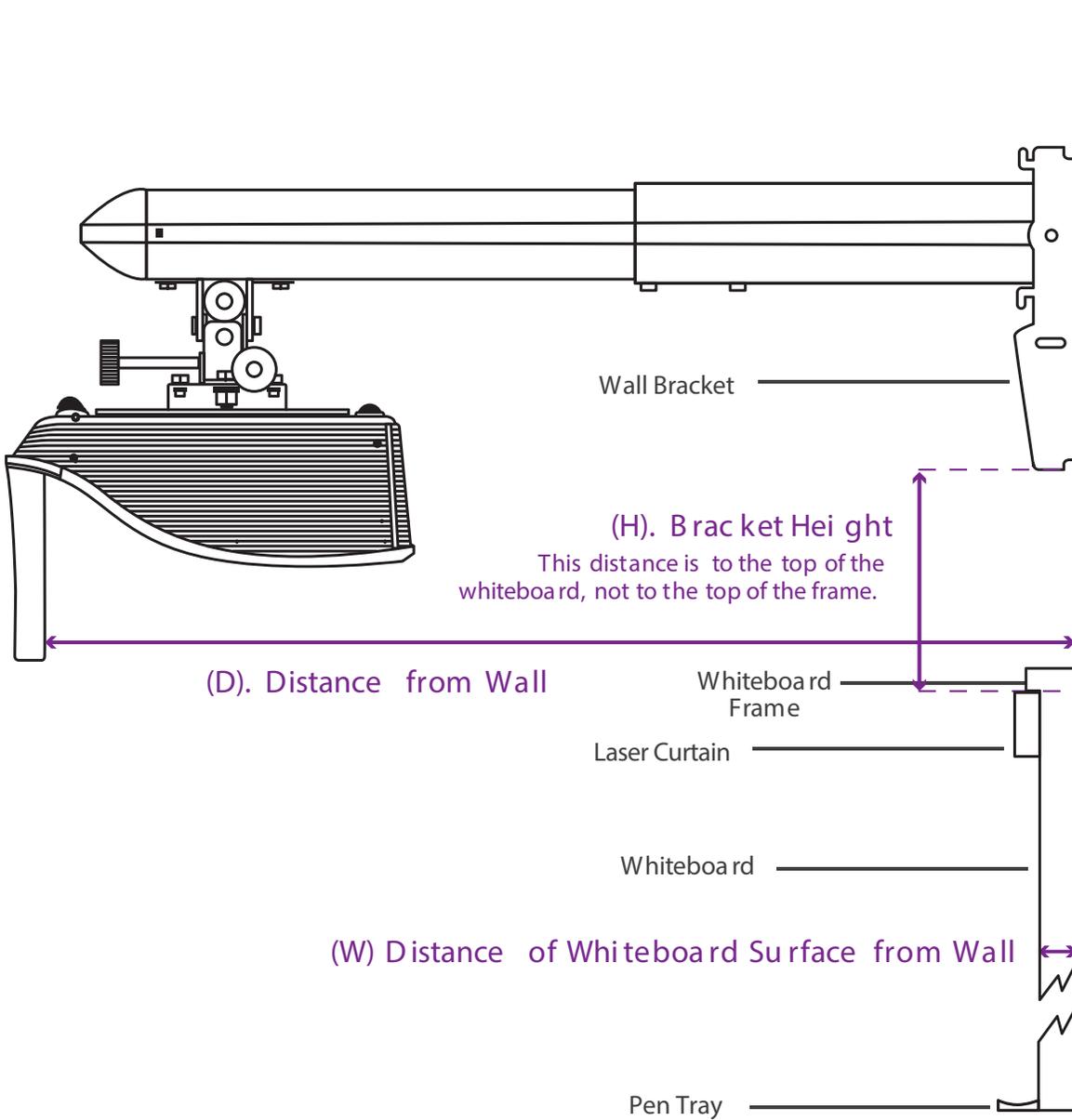
1. a. Measure the height and width of the interior surface of your whiteboard (do not include the frame in your measurements).
Example: 47 inches high by 78¼ inches wide
- b. Subtract 6 inches from the height of your whiteboard.
Example: 47 inches - 6 inches = 41 inches
- c. Subtract 6 inches from the width of your whiteboard.
Example: 78¼ inches - 6 inches = 72¼ inches
2. Using the chart on page 1, find the height closest, without going over, to the number calculated in step 2.
3. Do the following:
 - a. If the corresponding width listed in that row of the chart is not greater than the number calculated in step 3, use the information in this row to determine where to mount the projector mounting arm and projector.
 - b. If the corresponding width listed in that row of the chart is greater than the number calculated in step 3, find the row that contains the number closest, without going over, to the number calculated in step 3. Use the information in this row to determine where to mount the projector mounting arm and projector.

Board Dimensions					Mounting Bracket Placement Dimensions					
Diagonal WXGA	Image Height		Image Width		Distance (D)		Bracket (H)		Distance from left edge of board to center of Wall Mount	
	Inches	MM	Inches	MM	Inches	MM	Inches	MM	Inches	MM
82	40 1/2	1029	71 3/8	1802	24 1/8	612	10	254	32 1/2	826
83	41	1041	72 1/4	1829	24 1/2	621	10 1/8	257	33	838
84	41 1/2	1054	73	1854	24 3/4	629	10 1/4	260	33 1/2	851

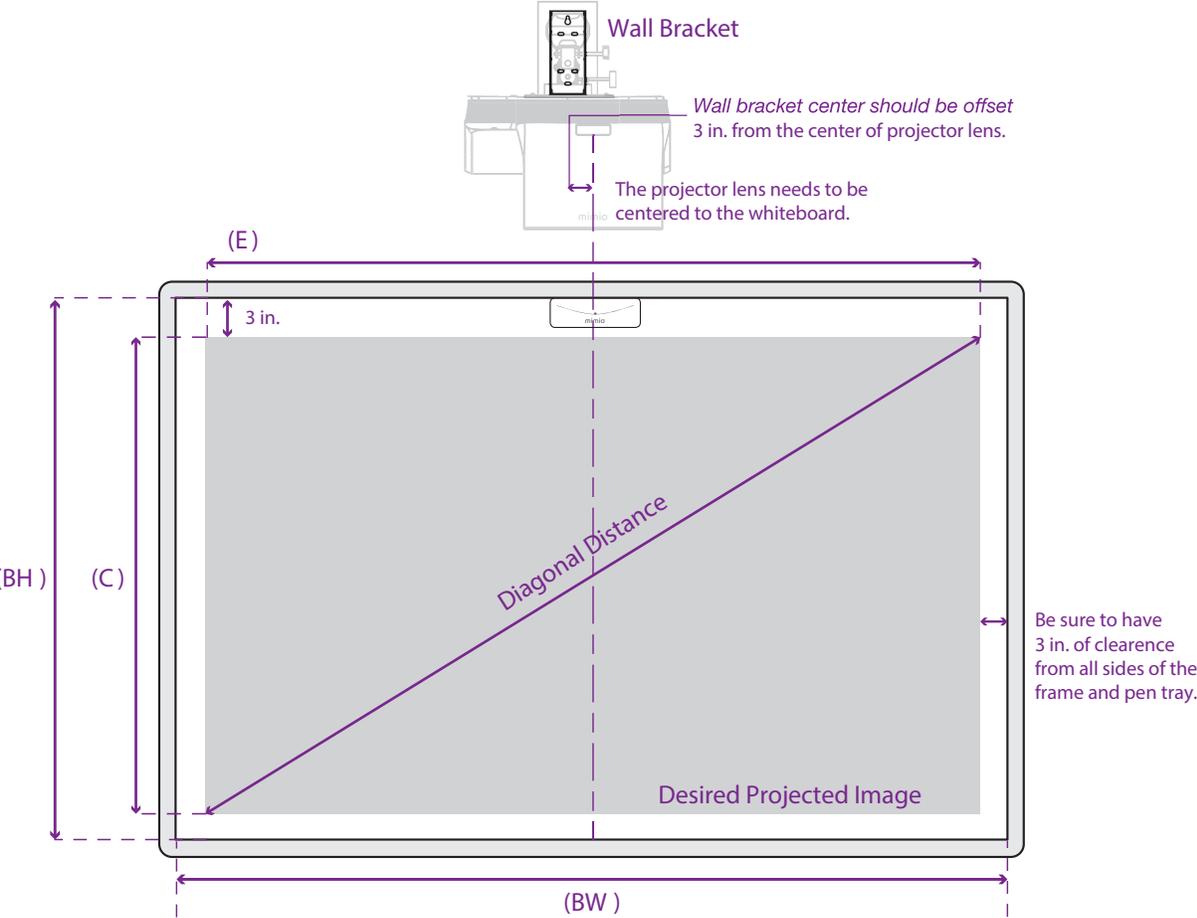
See the complete chart on on page 1.

4. Use the following images and the instructions on **Mounting MimioProjector** on page 16 to install the projector mount and projector.

Placement of 280T Projector with a Framed Whiteboard



When centering on your whiteboard, position the lens of the projector at the horizontal center of the board. The wall mount bracket is offset 3 inches (76 mm) from the center of the lens.



Determining Where to Mount MimioProjector with 280T Accessory Kit (Frameless Whiteboard)

This section describes how to determine where to mount the MimioProjector 280 for use as a touch projector, with the MimioProjector 280T Accessory Kit and a frameless non-standard sized whiteboard.

To determine the mounting location for MimioProjector 280T for use with a frameless whiteboard

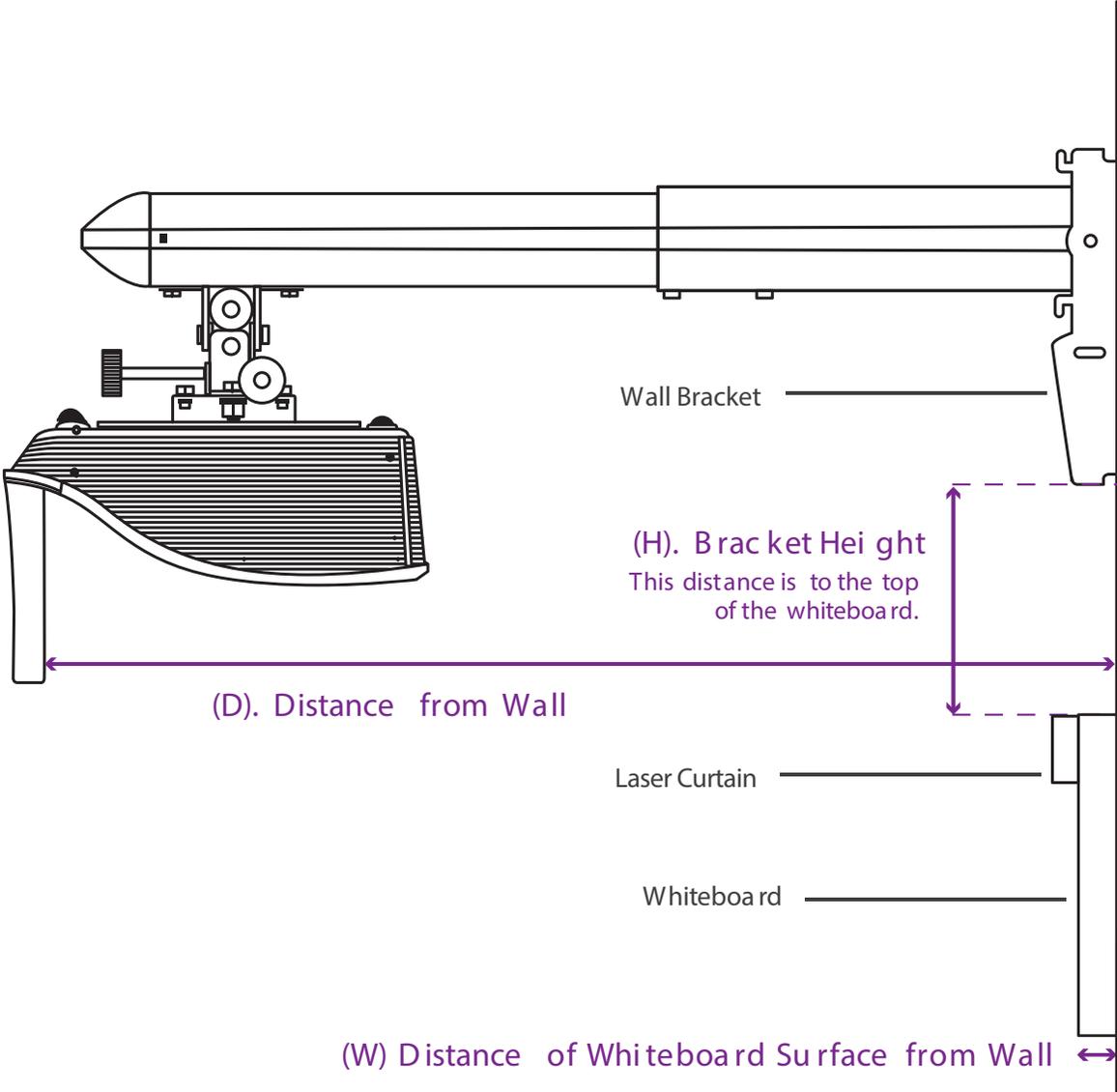
1. a. Measure the height and width of the interior surface of your whiteboard.
Example: 45 inches high by 74¼ inches wide
- b. Subtract 4 inches from the height of your whiteboard.
Example: 45 inches - 4 inches = 41 inches
- c. Subtract 6 inches from the width of your whiteboard.
Example: 74¼ inches - 2 inches = 72¼ inches
2. Using the on page 1 chart, find the height closest, without going over, to the number calculated in step 2.
3. Do the following:
 - a. If the corresponding width listed in that row of the chart is not greater than the number calculated in step 3, use the information in this row to determine where to mount the projector mounting arm and projector.
 - b. If the corresponding width listed in that row of the chart is greater than the number calculated in step 3, find the row that contains the number closest, without going over, to the number calculated in step 3. Use the information in this row to determine where to mount the projector mounting arm and projector.

Board Dimensions					Mounting Bracket Placement Dimensions					
Diagonal WXGA	Image Height		Image Width		Distance (D)		Bracket (H)		Distance from left edge of board to center of Wall Mount	
	Inches	MM	Inches	MM	Inches	MM	Inches	MM	Inches	MM
82	40 1/2	1029	71 3/8	1802	24 1/8	612	10	254	32 1/2	826
83	41	1041	72 1/4	1829	24 1/2	621	10 1/8	257	33	838
84	41 1/2	1054	73	1854	24 3/4	629	10 1/4	260	33 1/2	851

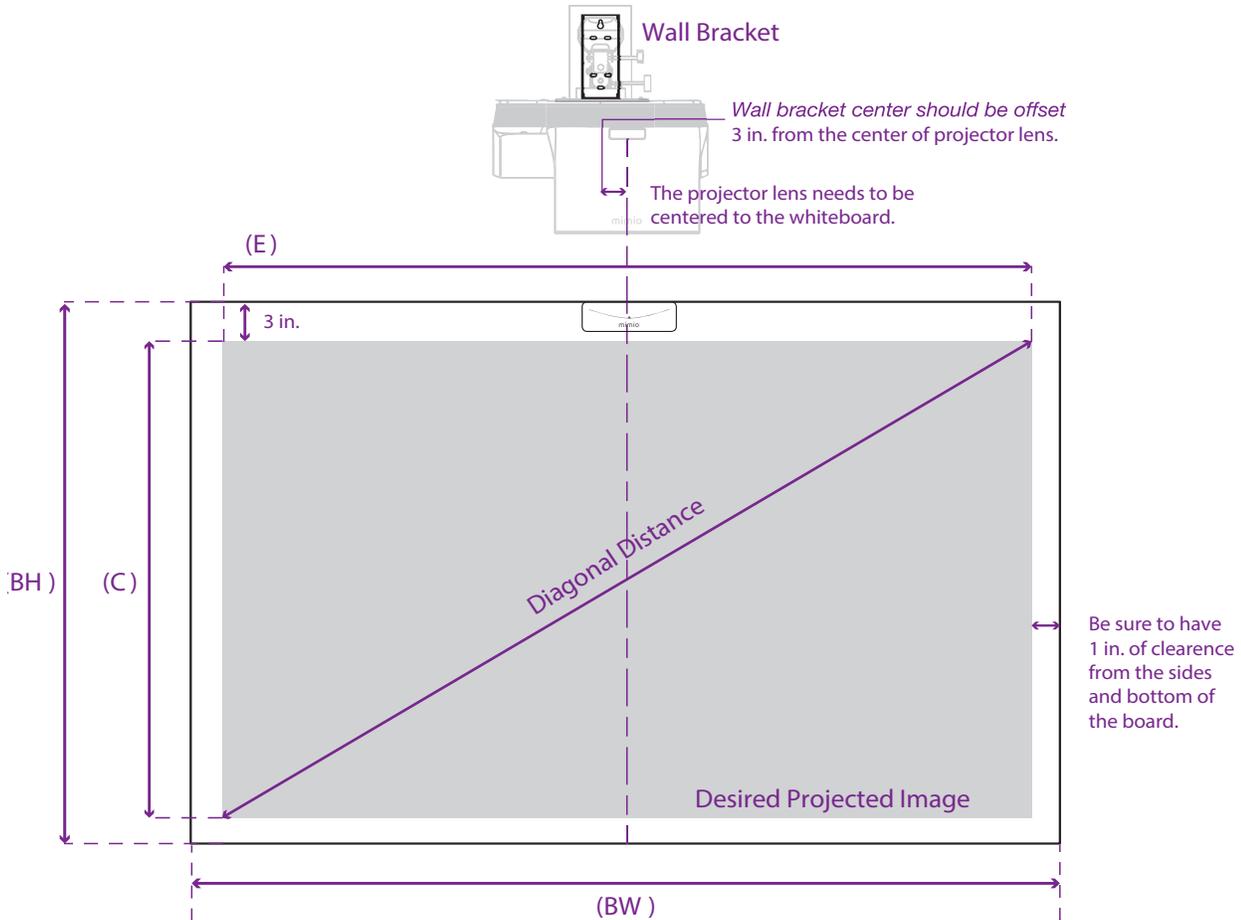
See the complete chart on on page 1.

4. Use the following images and the instructions on **Mounting MimioProjector** on page 16 to install the projector mount and projector.

Placement of 280T Projector with a Frameless Whiteboard



When centering on your whiteboard, position the lens of the projector at the horizontal center of the board. The wall mount bracket is offset 3 inches (76 mm) from the center of the lens.



Mounting Arm Placement for 16:9 Aspect WXGA Resolution - 1280 x 800

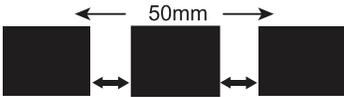
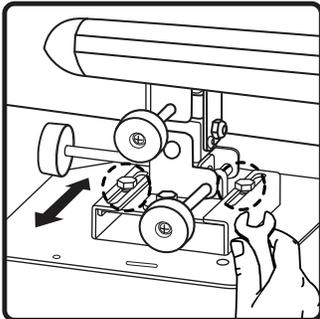
Board Dimensions		Mounting Bracket Placement Dimensions							
		Height		Width					
Diagonal WXGA	Inches	MM	Inches	MM	Distance	Bracket	Distance from left edge of board to center of Wall Mount		
	MM	MM	Inches	MM					
70	34	864	61	1549	20 3/8	8 3/8	213	27 1/2	699
71	35	889	62	1575	20 5/8	8 1/2	216	28	711
72	35	889	63	1600	30	8 1/2	216	28 1/2	724
73	36	914	64	1626	21 1/4	8 3/4	222	29	737
74	36	914	64	1626	21 5/8	8 7/8	225	29	737
75	37	940	65	1651	22	9	229	29 1/2	749
76	37	940	66	1676	22 1/4	9 1/8	232	30	762
77	38	965	67	1702	22 1/2	9 1/4	235	30 1/2	775
78	38	965	68	1727	22 7/8	9 3/8	238	31	787
79	39	991	69	1753	23 1/8	9 1/2	241	31 1/2	800
80	39	991	70	1778	23 1/2	9 5/8	244	32	813
81	40	1016	71	1802	23 7/8	9 3/4	248	32 1/2	826
82	40	1016	71	1802	24 1/8	10	254	32 1/2	826
83	41	1041	72	1829	24 1/2	10 1/8	257	33	838
84	41	1041	73	1854	24 3/4	10 1/4	260	33 1/2	851
85	42	1067	74	1879	25	10 3/8	264	34	864
86	42	1067	75	1905	25 3/8	10 1/2	267	34 1/2	876
87	43	1092	76	1930	25 3/4	10 5/8	270	35	889
88	43	1092	77	1956	26	10 3/4	273	35 1/2	902
89	44	1118	78	1981	26 3/8	10 7/8	276	36	914
90	44	1118	78	1981	26 5/8	11	279	36	914
91	45	1143	79	2007	27	11 1/8	283	36 1/2	927
92	45	1143	80	2032	27 3/8	11 1/4	286	37	940
93	46	1168	81	2057	27 5/8	11 3/8	289	37 1/2	953
94	46	1168	82	2082	28	11 1/2	29	38	965
95	47	1194	83	2108	28 1/4	11 5/8	295	38 1/2	978
96	47	1194	84	2134	28 3/4	11 7/8	302	39	991
97	48	1219	85	2159	29	12	305	39 1/2	1003
98	48	1219	85	2159	29 1/4	12 1/8	308	39 1/2	1003
99	49	1245	86	2184	29 1/2	12 1/8	308	40	1016
100	49	1245	87	2210	29 7/8	12 1/4	311	40 1/2	1029

Mounting Arm Placement for 4:3 Aspect XGA Resolution - 1024 x 768										
Board Dimensions		Mounting Bracket Placement Dimensions								
Diagonal WXGA	Height		Width		Distance		Bracket		Distance from left edge of board to center of Wall Mount	
	Inches	MM	Inches	MM	Inches	MM	Inches	MM	Inches	MM
70	42	1067	56	1422	24 1/4	616	9 7/8	251	25	635
71	42 5/8	1083	56 3/4	1441	24 5/8	626	10	254	25 3/8	645
72	43 1/4	1099	57 1/2	1460	25	636	10 1/8	257	25 3/4	654
73	43 7/8	1114	58 3/8	1483	25 3/8	646	10 3/8	264	26 3/16	665
74	44 3/8	1127	59 1/8	1502	25 3/4	655	10 1/2	267	26 9/16	675
75	45	1143	60	1524	26 1/8	665	10 3/4	273	27	686
76	45 5/8	1160	60 3/4	1543	26 1/2	674	10 7/8	276	27 3/8	695
77	46 1/4	1175	61 1/2	1562	27	684	11	279	27 3/4	705
78	46 7/8	1191	62 3/8	1584	27 1/4	693	11 1/4	286	28 3/16	716
79	47 3/8	1203	63 1/8	1693	27 5/8	703	11 3/8	289	28 9/16	725
80	48	1219	64	1626	28	712	11 1/2	292	29	737
81	48 5/8	1235	64 3/4	1645	28 3/8	722	11 3/4	298	29 3/8	746
82	49 1/4	1251	65 1/2	1664	28 7/8	732	11 7/8	302	29 3/4	756
83	49 7/8	1267	66 3/8	1686	29	736	12	305	30 3/16	767
84	50 3/8	1280	67 1/8	1705	29 3/8	746	12 1/4	311	30 9/16	779
85	51	1295	68	1727	29 3/4	755	12 3/8	314	31	787
86	51 5/8	1311	68 3/4	1746	30 1/4	765	12 1/2	318	31 3/8	797
87	52 3/8	1329	69 1/2	1765	30 1/2	775	12 3/4	324	31 3/4	806
88	52 7/8	1343	70 3/8	1788	30 7/8	784	12 7/8	327	32 3/16	818
89	53 3/8	1356	71 1/8	1807	31 1/4	794	13	330	32 9/16	805
90	54	1372	72	1829	31 1/2	802	13 1/4	337	33	838

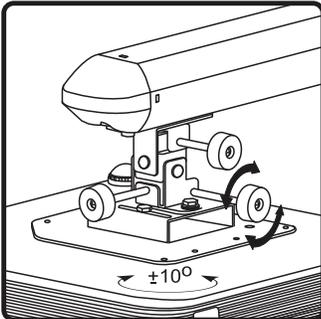
Aligning the Projector

The projector wall mount allows you to adjust MimioProjector in the following ways:

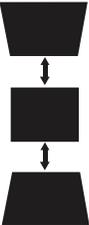
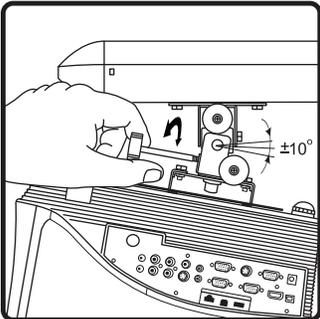
Slide from side to side



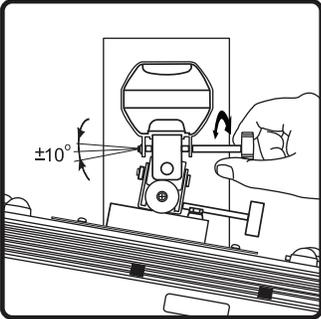
Rotate horizontally



Tilt from front to back

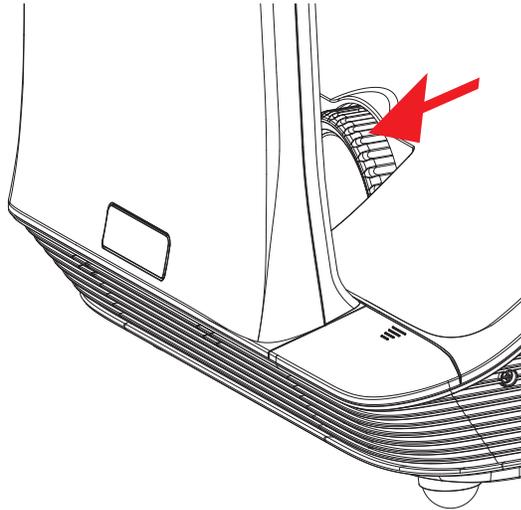


Tilt from side to side



Focusing the Projected Image

Use the focus ring to adjust the focus of the projected image. Turn the ring until the image is clear.

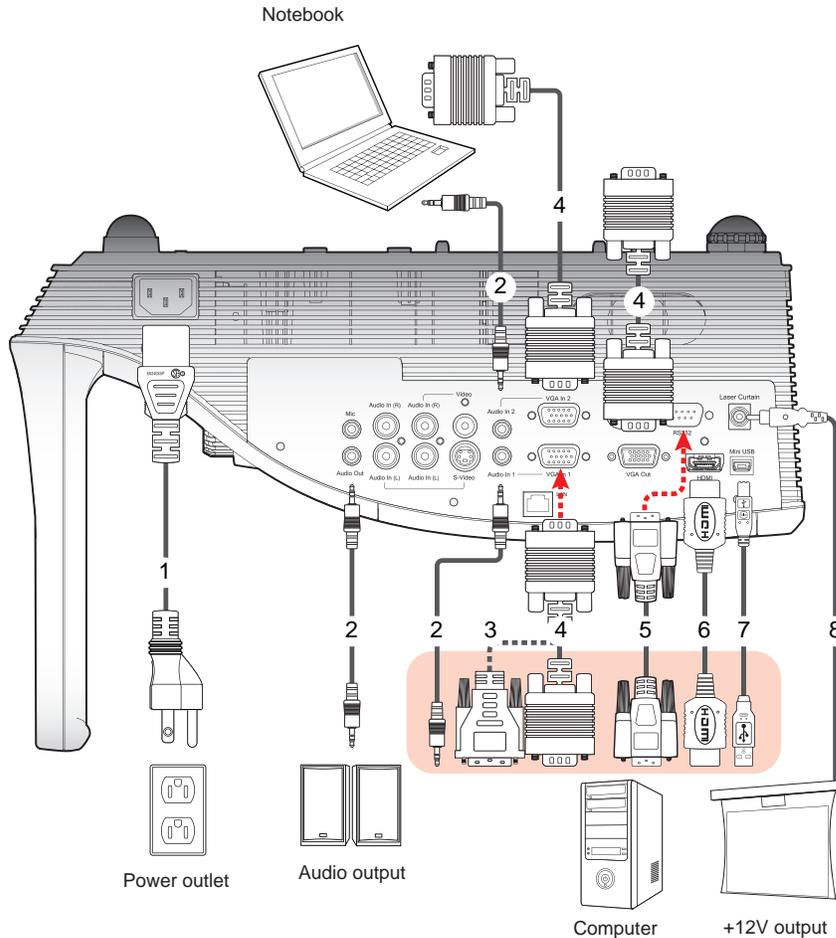


Connecting the Projector

You can connect MimioProjector to a computer or other video source.

Connecting to a Computer

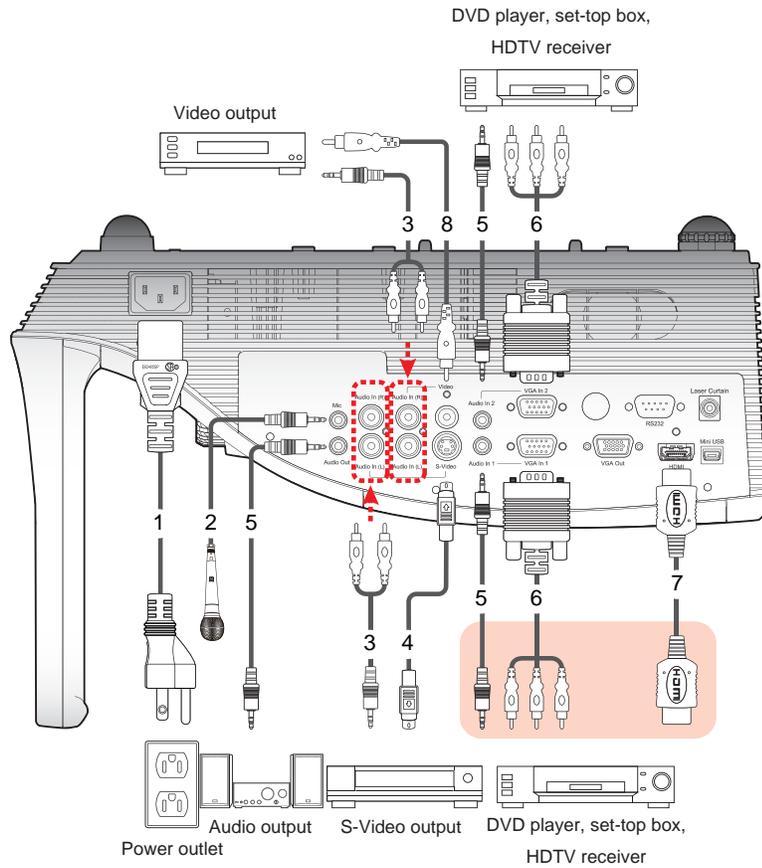
The following figure shows the connection methods available for connecting the MimioProjector to a computer.



1	Power cord (included)	5	RS232 cable
2	Audio cable	6	HDMI cable
3	VGA to DVI-A cable	7	USB cable
4	VGA cable (included)	8	Laser curtain

Connecting to a Video Source

The following figure shows the connection methods available for connecting the MimioProjector to a video source.



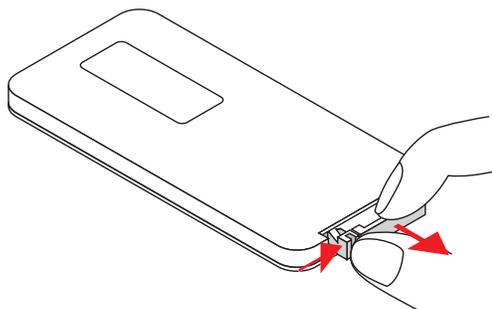
1	Power cord (included)	5	Audio cable
2	Microphone cable	6	VGA to HDTV (RCA) cable
3	Audio cable jack/RCA	7	HDMI cable
4	S-Video cable	8	Composite video cable

Setting Up the Remote Control

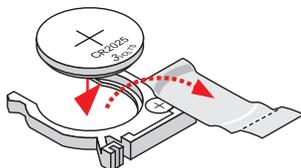
Before using the remote control for the first time, remove the transparent insulation tape.

To set up the remote control

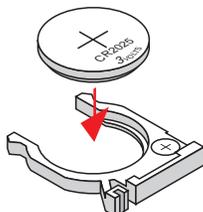
1. Press firmly and slide the battery holder out of the battery compartment.



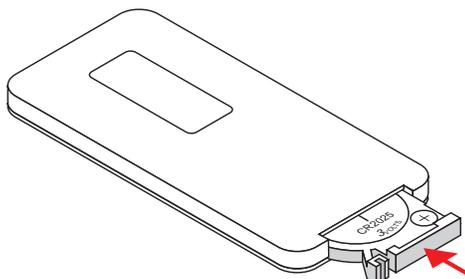
2. Remove the battery from the battery holder.
3. Remove the transparent insulation tape.



4. Replace the battery holder with the + polarity marking facing up as shown.



5. Slide the battery holder back into the battery compartment and press firmly.



Turning On the Power

You can power on the projector using the remote control or the control panel on the projector.

To turn the projector on

1. Securely connect the power cord and audio/video cables.

When connected, the Power status light turns red.

2. Press  on the control panel or on the remote control.

The Power status light turns blue.

3. Turn on the computer, notebook, video player, or other source from which you want to project an image.

The projector detects the input automatically.

4. If multiple inputs are connected to the projector, press **Source** on the control panel or on the remote control to switch between inputs.

Turning Off the Power

To turn the projector off

1. Press  on the control panel or on the remote control.
A confirmation message is displayed on the projector screen.
2. Press  again to turn the projector off.
The Power status light turns red and blinks rapidly. The projector fans continue to run for approximately one minute to ensure that the projector cools properly.
When the system is finished cooling, the fans turn off and the Power status light turns solid red, indicating that the projector is in standby mode.
3. Unplug the power cord.

Status Lights

Message	Lamp status light Red	Temperature status light Red	Power status light Red	Power status light Blue
Standby	--	--	ON	--
Power button ON	--	--	--	ON
Cooling state	--	--	0.5 second H (ON) 0.5 second L (OFF) flashing	--
Power button OFF Cooling completed; Standby mode	--	--	ON	--
Firmware download	ON	ON	ON	--
Thermal sensor error The following message is displayed: 1. Make sure air inlets and outlets are not blocked. 2. Make sure the environment temperature is under 40°C (104°F)	--	ON	--	ON
Fan lock error The following message is displayed: The projector will switch off automatically.	--	0.5 second H (ON) 0.5 second L (OFF) flashing	--	ON
Lamp error (lamp, lamp driver, color wheel)	ON	--	--	ON

Changing the Projector Settings

You can adjust the projector image and change the projector settings using the projector menus. The projector automatically detects the input source.

To change the projector settings

1. Press **Menu** on the control panel or on the remote control to display the projector main menu.
2. Use the navigation keys to select the desired menu item.
3. If the menu item has an arrow icon, , press **▶** to display the submenu for that setting, and then use the navigation keys to select the desired menu item.
4. Press **◀** or **▶** to adjust the selected setting.
5. Press **Menu** to return to the previous menu or to exit the menu screen.

Navigating the Projector Menu

The following table describes the structure of the projector menu and submenus.

Main Menu	Submenu	Settings
PICTURE	Color Mode	Brightest / PC / Movie / Game / User
	Wall Color	White / Light Yellow / Light Blue / Pink / Dark Green
	Brightness	0~100
	Contrast	0~100
	Sharpness	0~31
	Saturation	0~100
	Hue	0~100
	Gamma	0~3
	Color Temp.	Low / Mid / High
Color Space	AUTO / RGB / YUV	

Main Menu	Submenu	Settings	
SCREEN	Aspect Ratio	AUTO / 4:3 / 16:9 / 16:10	
	Phase	0~31	
	Clock	-50~50	
	H. Position	-10~10	
	V. Position	-10~10	
	Digital Zoom	1~10	
	V Keystone	-15 / +15	
	Ceiling Mount	Front / Front Ceiling / Rear / Rear Ceiling	
SETTING	Language	English / Deutsch / Français / Italiano / Español / Português / Polski / Русский / Svenska / Norsk / 简 体中文 / 日本語 / 한국어 / Türkçe / 繁體中文 /Nederlands / العربية	
	Menu Location		
	Closed Caption	Off / CC1 / CC2 / CC3 / CC4	
	VGA Out (Standby)	Off / On	
	Test Pattern	Off / On	
	Security	Security	Off / On
		Change Password	000000
	Reset	No / Yes	
AUDIO	Mute	Off / On	
	Volume	0~32	
	Microphone Volume	0~32	

Main Menu	Submenu		Settings
OPTIONS	Logo		Default / User
	Logo Capture		
	Auto source		Off / On
	Input		HDMI / VGA-A / VGA-B / S-Video / COMPOSITE
	Auto Power Off		(min) 0~120
	Lamp Setting	Lamp Hours Used (Normal)	
		Lamp Hours Used (ECO)	
		Lamp Life Reminder	Off / On
		Lamp Power Mode	ECO / Normal / Extreme Dimming
		Clear Lamp Hours	No / Yes
	Dynamic Black		Off / On
	High Altitude		Off / On
	Dust Filter Reminder	Filters Remind (Hour)	
		Cleaning Up Reminder	No / Yes
	Information		Model Name / SNID / Source / Resolution / Software Version / Color Space / Aspect Ratio

Main Menu	Submenu		Settings
3D	3D		AUTO / Off / On
	3D Invert		Off / On
	3D Format		Frame Packing / Side-by-Side (Half) / Top and Bottom / Frame Sequential / Field Sequential
	1080p @ 24	96Hz / 144Hz	
INTERACTIVE	Interactive Settings		Off / IR Camera

Adjusting the 3D Settings

You can adjust the 3D settings for your projector.

3D

You can choose how the projector handles 3D images.

- **Auto** - select the 3D image automatically whenever an HDMI 1.4a 3D timing identification signal is detected
- **Off** - turn off 3D functionality
- **On** - turn on 3D functionality

3D Invert

If you see a discrete or overlapping image while using DLP 3D glasses, you may need to turn on this feature to get the best picture. This feature adjusts the left/right image sequence.

3D Format

When using 3D mode, select the 3D format that matches the format used by the input source.

- **Frame Packing** - supports HDMI 1.4a 3D input signals
- **Side-by-Side (Half)** - supports HDMI 1.4a 3D input signals
- **Top and Bottom** - supports HDMI 1.4a 3D input signals
- **Frame Sequential** - supports DLP Link 3D input signals from VGA / HDMI connector and HQFS 3D input signals from Composite/S-video connector
- **Field Sequential** - supports HQFS 3D input signals from Composite/S-video connector

1080p @24

Use this feature to select 96 or 144 Hz refresh rate as using 3D glasses in the 1080p @ 24 frame packing.

Recommended 3D Glasses

Mimio recommends the use of Optoma ZD301 or Optoma ZD302 3D glasses. For more information, visit the Optoma website at

<http://www.optomausa.com/accessorydetail.aspx?PC=ZD302>.

Adjusting the Interactive Settings

Use this setting to turn on and off the Interactive function.

- **IR Camera** - the Interactive function is on
- **Off** - the Interactive function is off

Before turning on Interactive, unplug the mini-USB cable that connects your computer to the projector. After turning on Interactive, plug the mini-USB cable back in.



Notes

- This feature is only available when displaying images from HDMI/VGA input.
- This feature is not available when using 3D or Dynamic Black.

The Interactive feature must be enabled in order to use MimioProjector as an interactive or touch projector. For more information about the accessory kits used to enable interactive and touch projector use, see **MimioProjector Accessory Kits** on page 58. The IR camera must be connected to the projector before the projector is mounted.

Adjusting the Options

From the Options menu, you can change many of the projector settings as well as view the projector information.

Logo

You can select the image to display on projector startup.

- **Default**- displays the default screen on projector startup
- **User** - displays an image of your choice on projector startup

See **Logo Capture** on page 49 for information on selecting an image.

Logo Capture

You can capture an image to display on projector startup.

- ▶ Press ▶ to capture the image currently displayed on the screen.



Notes

- Ensure that the displayed image does not exceed the native resolution of the projector (WXGA:1280x800).
- Logo Capture is not available when 3D is enabled.
- The aspect ratio should be set to Auto before using capturing an image.

Auto Source

Select how to handle searching for an input source when the projector loses signal from the current input source.

- **On** - the projector searches for signals from other input sources when the current input signal is lost
- **Off** - the projector searches only for a signal from the current input connection when the current input signal is lost

Input

Use this option to select the input types that the projector will search for.

1. From the **Options** menu, select **Input**, and then press ►.
2. Select the input that you do not want the projector to search for, and then press ► to clear the check box for the selected input type.

Auto Power Off

The projector has an auto-off feature which automatically turns the projector off when no input signal is received by the projector for a set amount of time.

You can set the amount of time the projector will stay on before automatically turning off .

1. Press **Menu** on the remote control.
2. Select **Options**.
3. Select **Auto Power Off**.
4. Using the arrow button adjust to the desired amount of time.
5. Press **Menu** to save the settings.

Lamp Setting

Lamp Hours Used (Normal)

View the amount of time the projector has been used in normal lamp power mode.

Lamp Hours Used (ECO)

View the amount of time the projector has been used in ECO lamp power mode.

Lamp Life Reminder

You can choose whether or not the projector displays a warning message when the lamp is nearing end of life.

Lamp Power Mode

The following lamp power modes are available:

- **Normal** - the projector lamp is at full brightness
- **ECO** - the projector lamp is dimmed to reduce power consumption, extending the life of the lamp

- **Extreme Dimming** - the projector lamp is dimmed 30 percent to reduce power consumption, extending the life of the lamp

Clear Lamp Hours

Reset the lamp hours counter after replacing the projector lamp.

Dynamic Black

Use Dynamic Black to display the image with the optimum contrast by automatically providing signal compensation to suit the currently displayed image.



Notes

- This feature is only available when the color mode is set to Movie.
- This feature is not available when using 3D or Interactive.
- Lamp Power Mode cannot be used with this feature.

High Altitude

The fan power required varies depending on the altitude you are at. Set this option appropriately to ensure that the projector cools properly.

- **On** - the built-in fans automatically run at a variable speed according to the internal temperature of the projector
- **Off** - the built-in fans run at high speed
Select this option when using the projector at altitudes above 5000 feet/1524 meters.

Filters Remind

You can set a time to be reminded to perform filter maintenance.

- **Filters Remind (Hour)** - Set the number of hours that pass before you are reminded to clean the dust filters. The dust filters should be cleaned after every 500 hours of use. Clean the filters more frequently if the projector is used in a dusty environment.
- **Cleaning Up Reminder** - Once you have cleaned or replaced the dust filters, reset the timer to be reminded then next time the filters require maintenance.

Information

Display the following projector information:

- Model name
- Software version
- SNID
- Color space
- Source
- Aspect ratio
- Resolution

Adjusting the Picture

Many settings are available for adjusting the picture displayed by the projector..

Color Mode

The following optimized color modes are available for viewing various types of images.

- **Brightest** - for brightness optimization
- **PC** - for viewing meeting presentations
- **Movie** - for viewing video content
- **Game** - for viewing game content
- **User** - for storing your manually configured settings

Wall Color

Select the wall color that the image is projected onto. The projector settings automatically adjust to show the correct image tone, compensating for color deviation due to wall color.

Brightness

Adjust the brightness of the image.

- ▶ Press ◀ to darken image.
- ▶ Press ▶ to lighten the image.

Contrast

The Contrast controls the difference between the lightest and darkest parts of the picture. Adjusting the contrast changes the amount of black and white in the image.

- ▶ Press ◀ to decrease the contrast.
- ▶ Press ▶ to increase the contrast.

Sharpness

Adjust the sharpness of the image.

 This setting is only supported when Movie is selected as the color mode.

- ▶ Press ◀ to decrease the sharpness.
- ▶ Press ▶ to increase the sharpness.

Saturation

Adjust the color saturation of the image. The saturation ranges from black and white to fully saturated color.

-  This setting is only supported when Movie is selected as the color mode.
- ▶ Press ◀ to decrease the amount of saturation in the image.
- ▶ Press ▶ to increase the amount of saturation in the image.

Hue

Adjust the red and green color balance.

-  This setting is only supported when Movie is selected as the color mode.
- ▶ Press ◀ to increase the amount of green in the image.
- ▶ Press ▶ to increase the amount of red in the image.

Gamma

Adjusts the representation of dark scenery. The greater the gamma value, the bright dark scenery will appear.

- ▶ Press ◀ to decrease the gamma value.
- ▶ Press ▶ to increase the gamma value.

Color Temperature

At a higher color temperature, the image appears colder; at a lower color temperature, the image appears warmer.

Color Space

Select the appropriate color matrix type; Auto, RGB, or YUV.

Adjusting the Screen

You can adjust the screen and display settings for the projector.

Aspect Ratio

The following aspect ratios are available for scaling the projected image.

- **Auto** - keeps the image the original width-to-height ratio and maximizes the image to fit native horizontal or vertical pixels
- **4:3** - scales the image to fit the screen and displays using a 4:3 ratio
- **16:9** - scales the image to fit the width of the screen and adjusts the height to display the image using a 16:9 ratio
- **16:10** - scales the image to fit the width of the screen and adjusts the height to display the image using a 16:10 ratio

Phase

Change the signal timing of the display to match the timing of the graphics card for your computer. If the image appears unstable or flickers, use this setting to correct it.

- ▶ Press ◀ to decrease the signal timing.
- ▶ Press ▶ to increase the signal timing.

Clock

Change the display data frequency to match the frequency of the graphics card for your computer. Adjust this setting only if the image appears to flicker vertically.

- ▶ Press ◀ to decrease the data frequency.
- ▶ Press ▶ to increase the data frequency.

Horizontal Position

Adjust the horizontal position of the projected image.

 The range for this setting depends on the input source.

- ▶ Press ◀ to move the image left.
- ▶ Press ▶ to move the image right.

Vertical Position

Adjust the vertical position of the projected image.

 The range for this setting depends on the input source.

- ▶ Press ◀ to move the image down.
- ▶ Press ▶ to move the image up.

Digital Zoom

Use this setting to zoom the projected image.

- ▶ Press ◀ to reduce the size of the image.
- ▶ Press ▶ to magnify the image on the projection screen.

Vertical Keystone

Use this setting to adjust the vertical distortion of the image. If the image appears trapezoidal, adjust this setting to make the image appear rectangular.

- ▶ Press ◀ or ▶ to adjust the vertical distortion of the image.

Adjusting the General Settings

You can adjust many of the general settings for your projector.

Language

Select the language to use when displaying the projector menus.

Menu Location

Select the location for the projector menu to display.



Top left



Top right



Center



Bottom left



Bottom right

Closed Caption

The following closed caption options are available:

- Off
- CC1
- CC2
- CC3
- CC4.

VGA OUT (Standby)

You can enable VGA OUT connection to display the projector image on an additional display.

- ▶ Select **On** to enable VGA OUT connection.

Auto Screen (12V Out)

If you are using the projector with a powered screen, you can choose to automatically lower and raise the screen when the projector is powered on and off.

- **On** - the screen lowers automatically when you turn the projector power on and raises automatically when you turn the projector power off
- **Off** - the screen does not lower and raise automatically when you turn the projector power on and off

Test Pattern

You can display a test pattern to test the image settings.

- **On** - show the test pattern
- **Off** - hide the test pattern

Security

You can choose to require a password to be entered each time the projector is turned on. The following security settings are available:

- **On** - the user must enter a password in order to power on the projector
- **Off** - the user is not required to enter a password in order to power on the projector

Setting the Password

If the password is entered incorrectly 3 times, the projector automatically shuts down. If you forget your password, contact Mimio Technical Support for assistance.

To set the password for the first time

1. From the **Security** menu, select **Change Password**, and then press ►.
2. Use the navigation keys to enter 000000 as the current password, and then press ►.
 If the password is entered incorrectly 3 times, the projector automatically shuts down.
3. Use the navigation keys to enter a new password, and then select **ENTER** to confirm. The password must be six digits.
4. Use the navigation keys to enter the new password again, and then select **ENTER** to confirm.

To change the password

1. From the **Security** menu, select **Change Password**, and then press ►.
2. Use the navigation keys to enter the current password, and then press ►.
 If the password is entered incorrectly 3 times, the projector automatically shuts down.
3. Use the navigation keys to enter a new password, and then select **ENTER** to confirm. The password must be six digits.
4. Use the navigation keys to enter the new password again, and then select **ENTER** to confirm.

Reset

Resetting the projector resets all projector settings to the factory defaults.

- ▶ Select **Yes** to reset the projector.

Adjusting the Volume

You can adjust the projector volume settings.

Mute

You can choose to mute the projector audio.

 You can also press **Mute** on the remote control to turn mute on and off.

Volume

Use this setting to increase or decrease the speaker volume.

- ▶ Press ◀ to decrease the volume.
- ▶ Press ▶ to increase the volume.

 You can also use the volume buttons on the remote control to adjust the volume.

Microphone Volume

Use this setting to increase or decrease the microphone volume.

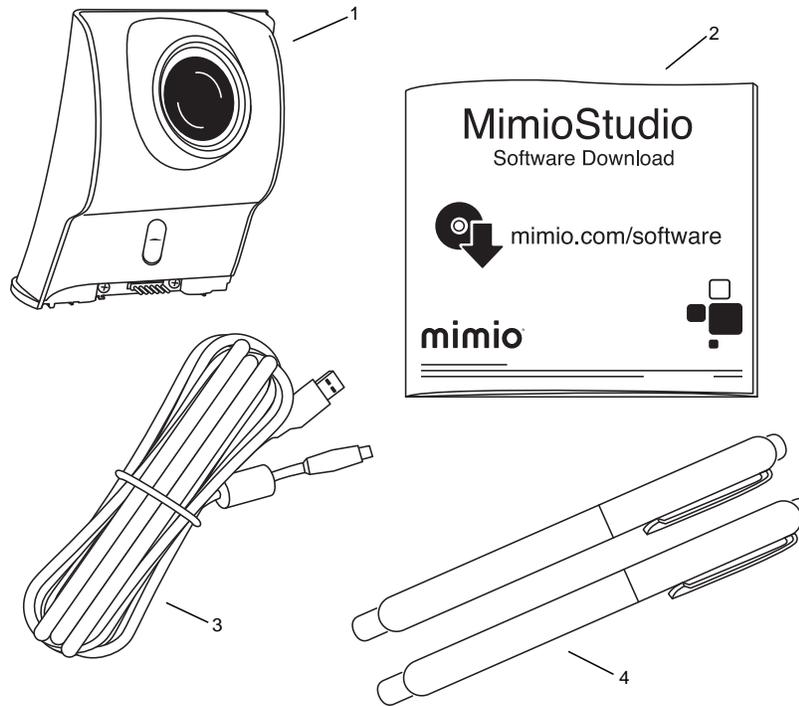
- ▶ Press ◀ to decrease the volume.
- ▶ Press ▶ to increase the volume.

MimioProjector Accessory Kits

You can update your MimioProjector to an interactive projector using either the MimioProjector 280I Interactive Accessory Kit or the MimioProjector 280T Touch Accessory Kit.

MimioProjector 280I Accessory Kit: What's Included

The MimioProjector 280I Accessory Kit includes the following items:



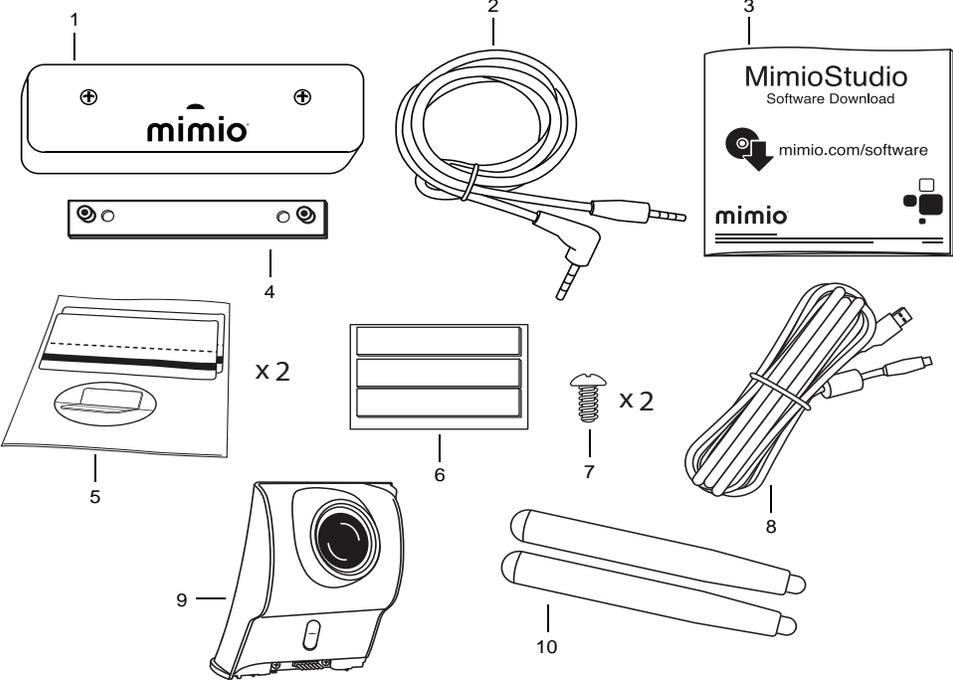
1	IR Module	3	USB cable
2	MimioStudioSoftware download card	4	Pens (x2)

If you are missing any of the items above, contact Technical Support.

- Pens from the MimioProjector 240 are not compatible with the MimioProjector 280I. MimioProjector 240 pens have a white clip with the Mimio logo engraved; MimioProjector 280I pens have a silver clip with no logo.

MimioProjector 280T: What's Included

The MimioProjector 280T Accessory Kit includes the following items:



1	Laser curtain module	6	3M double-sided tape
2	Power cord	7	Screws
3	MimioStudio Software download card	8	USB cable
4	Laser curtain mounting bracket	9	IR module
5	Alignment stickers	10	Styli (x2)

If you are missing any of the items above, contact Technical Support.

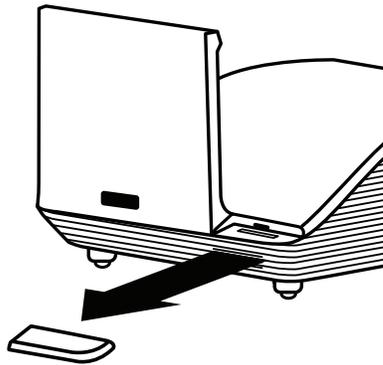
Connecting the IR Module

You can update your MimioProjector to an interactive projector for pens using the IR module included in the MimioProjector 280I or for touch using the IR module included with the MimioProjector 280T Accessory Kit.

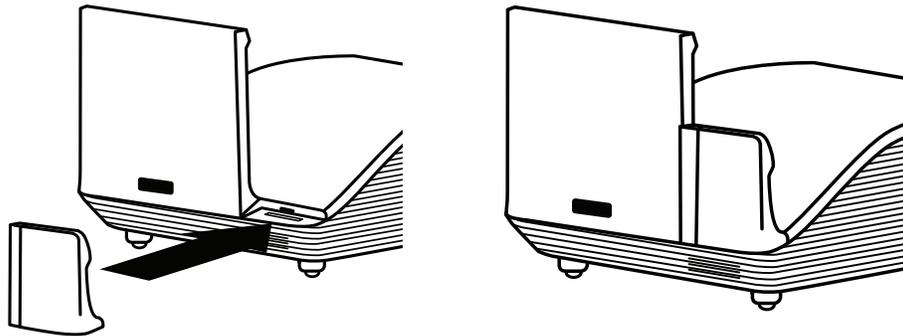
Once the IR module is connected, you will need to turn on the Interactive function in the projector settings. For information about turning this feature on, see **Adjusting the Interactive Settings** on page 49.

To connect the IR module

1. Slide the IR module connector cover from the projector.



2. Align the IR module with the IR module connector on the projector and slide into place.



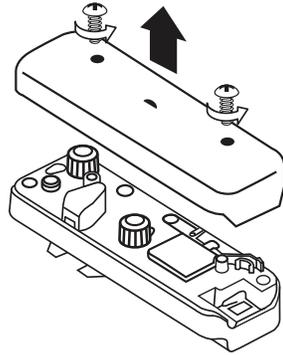
Installing the Laser Curtain

You can update your MimioProjector to a touch projector using the laser curtain and IR modules.

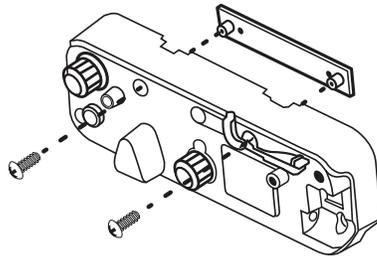
Once the laser curtain module is installed and the IR module is connected, you will need to turn on the Interactive function in the projector settings. For information about turning this feature on, see **Adjusting the Interactive Settings** on page 49.

To install the laser curtain

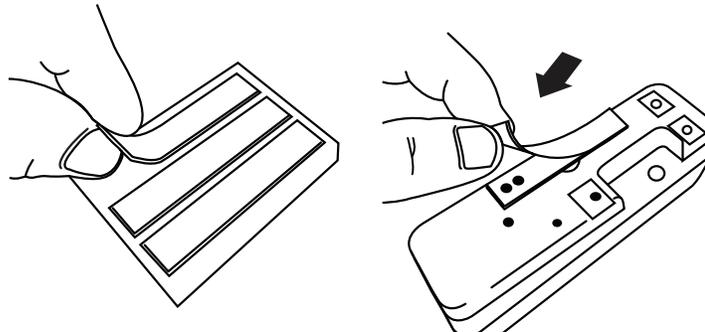
1. Using a crosshead screwdriver, remove the screws from the laser curtain module and remove the top cover of the module.



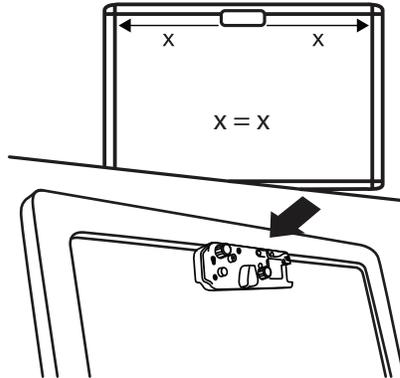
2. Attach the mounting bracket to the back of the laser curtain module using the included screws.



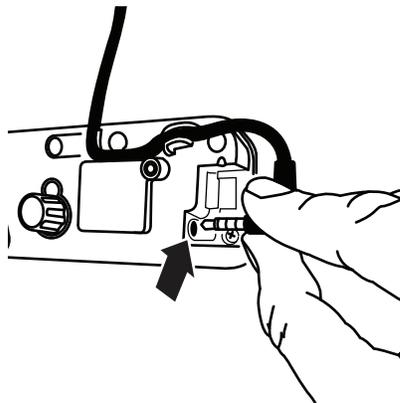
3. Affix one piece of 3M double-sided tape (included) onto the back of the mounting bracket as shown, and then remove the paper backing from the tape.



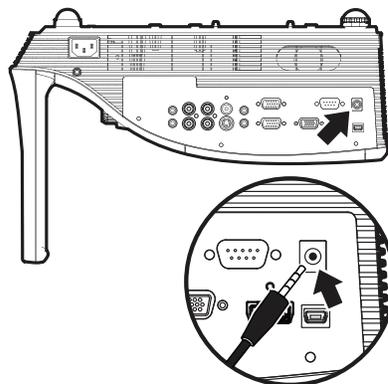
4. Place the laser curtain module at the top of the board, centered with the projector lens, and press in place.



5. Plug the power cord into the power connector on the laser curtain module and run the cord through the cableway.

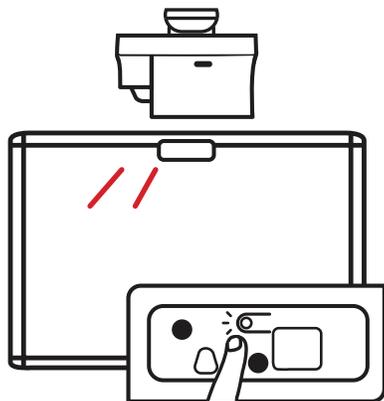


6. Plug the other end of the laser curtain power cord into the DC Out 12V port on the side of the projector.

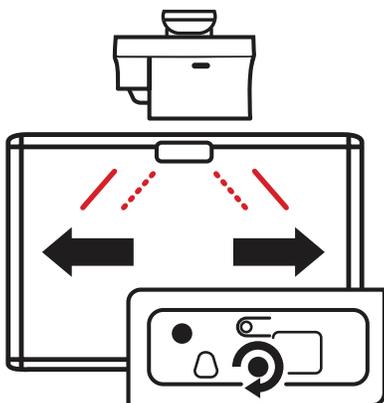


7. Turn on the projector.
A blue light on the laser curtain will illuminate.

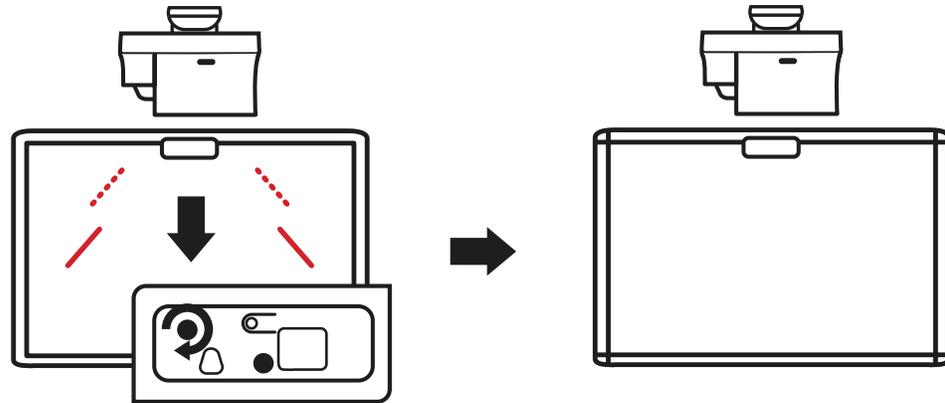
8. To align the laser curtain, press the button above the blue light.
The blue light will turn red and flash indicating two laser beams are visible for alignment.



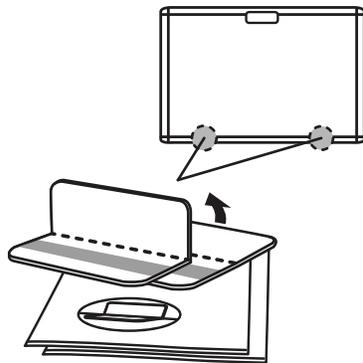
9. Turn the gray knob on the laser curtain module clockwise until the two red laser marks are centered on the board.



10. Turn the black knob on the laser curtain module clockwise, lowering the laser marks, until the two laser marks are no longer visible on the board.



11. Fold one alignment sticker as shown and affix the sticker to the bottom-left edge of the board.

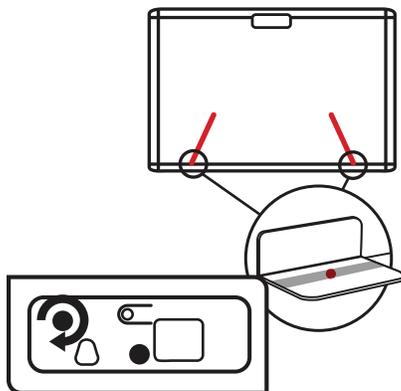


A red laser mark should appear on the alignment sticker.

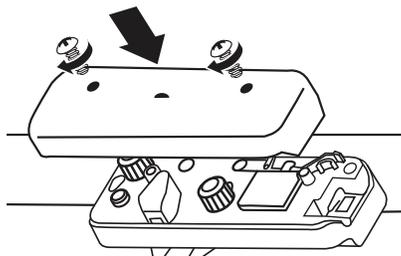
12. Fold the other alignment sticker and affix the sticker to the bottom-right edge of the board.

A red laser mark should appear on the alignment sticker.

13. Turn the black knob on the laser curtain module clockwise until the red laser marks are visible in the gray strip area of each alignment sticker.



14. Once both lasers are aligned on the alignment stickers, press the button above the blinking red light on the laser curtain module.
The light turns blue, indicating you are in touch mode.
15. Place the laser curtain module cover back on the laser curtain module and replace the screws using a crosshead screwdriver.



Caring for MimioProjector

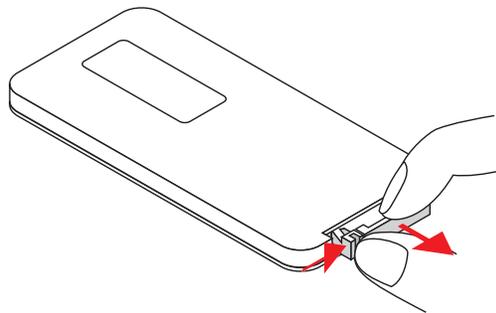
Replacing the Remote Control Battery

To ensure safe operation, please observe the following precautions :

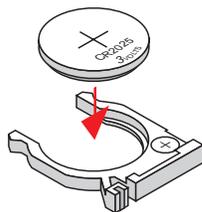
- Use only CR2025 type battery.
Using the incorrect battery type may cause explosion.
- Avoid contact with water or liquid.
- Do not expose the remote control to moisture or heat.
- Do not drop the remote control.
- If the battery leaks while inserted in the remote control, carefully wipe the case clean and install new battery.
- Dispose of used battery according to battery instructions.

To replace the battery

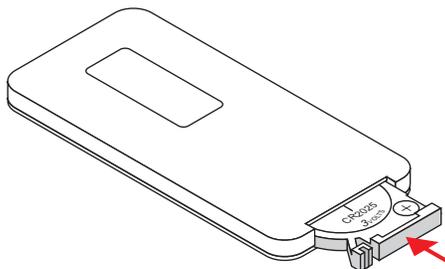
1. Press firmly and slide the battery holder out of the battery compartment.



2. Remove the old battery from the battery holder.
3. Insert a new battery into the battery holder with the + polarity marking facing up as shown.



4. Slide the battery holder back into the battery compartment and press firmly.



Replacing the Lamp

The projector automatically detects the lamp life. When the lamp is nearing the end of life, a warning is displayed on the screen.

When the warning appears, contact Mimio Technical Support to order a replacement lamp as soon as possible. Make sure the projector is off and has cooled down for at least 60 minutes before changing the lamp.

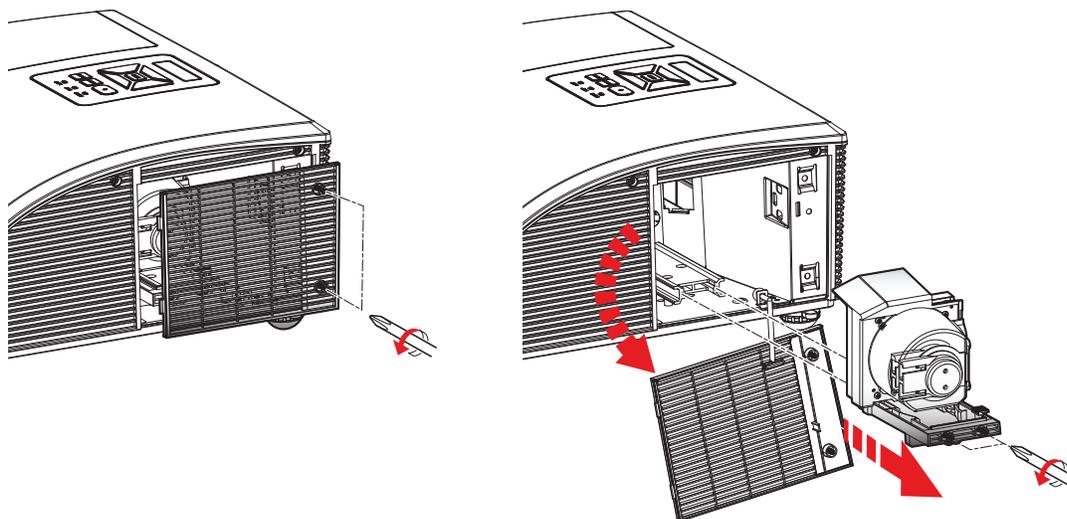


Notes

- MimioProjector uses an OSRAM P-VIP 280/0.9 E20.9 bulb.
- The screws on the lamp cover and the lamp cannot be removed.
- The projector cannot be turned on while the lamp cover is removed.
- Do not touch the glass area of the lamp. Oils from your skin can cause the lamp to shatter. Use a dry cloth to clean the lamp module if the lamp is accidentally touched.

To remove the lamp module

1. Press the power button to turn off the projector.
2. Allow the projector to cool down for at least 60 minutes.
3. Unplug the power cord.
4. Using a screwdriver, loosen the two screws on the lamp cover.
5. Lift and remove the lamp cover.
6. Using a screwdriver, loosen the two screws on the lamp module.
7. Pull the lamp handle up and slowly and carefully remove the lamp module.



To insert the new lamp module

1. Slowly and carefully slide the lamp module into the lamp compartment (**do not force**) and push the lamp handle down.
2. Using a screwdriver, tighten the two screws on the lamp module.
3. Replace the lamp cover.
4. Using a screwdriver, tighten the two screws on the lamp cover.
5. Plug the power cord into a wall outlet.
6. Press the power button to turn on the projector.
7. Clear the lamp hours. See **Clear Lamp Hours** on page 51 for information about clearing the lamp hours.

Cleaning the Dust Filters

The dust filters should be cleaned after every 500 hours of use. Clean the filters more frequently if the projector is used in a dusty environment.

When the dust filters need to be cleaned, a warning is displayed on the screen.

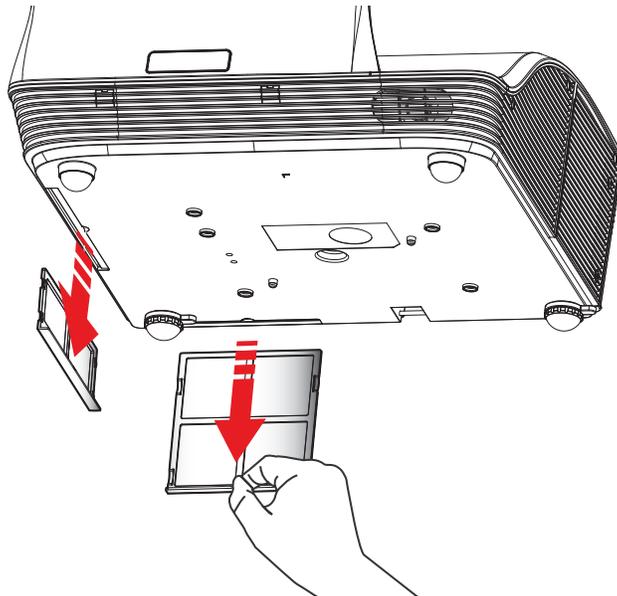
When the warning appears, clean the dust filters as soon as possible. Make sure the projector is off before cleaning the dust filters.

Notes

- The dust filters should be used in dusty environments.
- Properly maintaining the dust filters prevents overheating of the projector and related damage.

To clean the dust filters

1. Press the power button to turn off the projector.
2. Unplug the power cord.
3. Pull the latch and slowly and carefully remove the dust filters from the projector.



4. Use a vacuum to clean the dust filters.
 -  Do not wash filters. Filters do not need to be replaced.
5. Slide the dust filters back into the projector.
6. Plug the power cord into a wall outlet.
7. Press the power button to turn on the projector.
8. Reset the filter maintenance reminder.

See **Filters Remind** on page 51 for information about resetting the filters reminder.

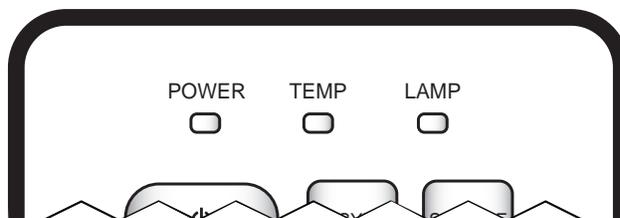
Getting Help

Review this chapter if you encounter a problem with your projector.

If you are unable to solve a problem, this chapter also describes how to contact Mimio Technical Support.

Status Lights

The status lights on the projector control panel visually show the status of the MimioProjector.



Message	POWER		TEMP	LAMP
	Red	Blue	Red	Red
Power Plug	Flash ON/OFF 100ms	Off	Flash ON/OFF 100ms	Flash ON/OFF 100ms
Standby	On	Off	Off	Off
Power button ON	Off	On	Off	Off
Cooling state	0.5 sec (ON)			
	0.5 sec (OFF) flashing	Off	Off	Off
Power button OFF; Cooling completed; Standby Mode	On	Off	Off	Off
Firmware Download	On	On	On	On
Thermal Switch error (lamp over temperature); OSD shows "Projector Overheated"	Off	On	Off	On
Thermal sensor error (system over temperature); OSD shows "Projector Overheated"	Off	On	Off	On
Fan lock error OSD shows red "Fan Fail, Will automatically turn off soon"	Off	On	Off	0.5 sec (ON)
				0.5 sec (OFF) flashing
Lamp error (Lamp, ballast)	Off	On	Off	On
Color wheel fail	Off	On	Off	0.5 sec (OFF)
Photo sensor fail				flashing

General Troubleshooting

Review this section if you encounter a general problem with your projector.

Projector stops responding to all controls

1. Press the power button to turn the projector off.
2. Unplug the power cord.
3. After 20 seconds, or longer, plug the power cord back in.
4. Press the power button to turn the projector on.

Lamp burns out or makes a popping sound

When the lamp reaches end of life, it burns out and may make a loud popping sound. The projector will not turn on again until the lamp module is replaced. For information about replacing the lamp, see **Replacing the Lamp** on page 67.

Image Troubleshooting

No image is displayed

- Ensure all cables and power connections are correctly and securely connected as described in **Connecting the Projector** on page 39.
- Ensure the pins of connectors are straight and not broken.
- Ensure that the projection lamp is securely installed. For more information, refer to **Status Lights** on page 70.
- Ensure that the Blank feature is not activated. See **About the Remote Control** on page 12 for more information about the Blank feature.

A partial, scrolling, or incorrect image is displayed

- Press **ReSync** on the remote control or on the projector control panel.

If you are using a computer as the input source, do the following:

1. Verify that the display resolution setting for your computer is set at 1080p or lower. Refer to the documentation for your computer for information about changing the display resolution for your computer.
 -  If you experience difficulty changing resolutions or the PC monitor freezes, restart all equipment including the projector.
2. If you are using a notebook computer, press the keyboard buttons needed to toggle the output setting.

Notebook Brand	Function Keys
Acer	[Fn]+[F5]
Asus	[Fn]+[F8]
Dell	[Fn]+[F8]
Gateway	[Fn]+[F4]
IBM/Lenovo	[Fn]+[F7]
HP/Compaq	[Fn]+[F4]
NEC	[Fn]+[F3]
Toshiba	[Fn]+[F5]
Mac Apple	System Preference -> Display -> Arrangement -> Mirror display

The notebook computer display is not displaying an image

Some notebook computers may deactivate the screens when a second display device is in use. Each has a different way to be reactivated. Refer to the documentation for your computer for detailed information.

Image is unstable or flickering

- Adjust the Phase setting on the projector. See **Phase** on page 54 for information about changing the Phase setting.
- Change the monitor color setting on your computer.

Image has vertical flickering bar

- Adjust the Clock setting on the projector. to make an adjustment. See **Clock** on page 54 for information about changing the Clock setting.
- Check and reconfigure the display mode of your graphic card to make it compatible with the projector.

Image is out of focus

- Adjust the focus ring on the projector lens.
- Make sure the projection screen is within the required distance.

Image is stretched when displaying 16:9 DVD image

- When you play anamorphic DVD or 16:9 DVD, the best image is displayed when the projector is set to use 16: 9 format.
-  If the image is still stretched, verify that the format setting on your DVD player is set correctly.

Image is too small or too large

- Move the projector closer to or further from the screen.
- Adjust the aspect ratio setting on the projector. See **Aspect Ratio** on page 53 for information about adjusting the aspect ratio.

Image is displayed with slanted sides

- If possible, reposition the projector so that the image is centered on the screen.
- Adjust the vertical keystone setting on the projector. See **Vertical Keystone** on page 54 for information about adjusting this setting.

Image is reversed

Verify that the ceiling mount setting on the projector is set correctly. See **Adjusting the Screen** on page 53 for information about adjusting this setting.

3D Troubleshooting

Two images are displayed side-by-side

Set the 3D format to Side-by-Side (Half). For information about changing the 3D format, see **3D Format** on page 48.

Image not displayed in 3D

- Make sure your 3D glasses are powered on.
- Make sure the batteries in the 3D glasses have sufficient charge.
- Set the 3D format to Side-by-Side (Half).
For information about changing the 3D format, see **3D Format** on page 48.

Sound Troubleshooting

- If you are playing sound only or with video from an external source, make sure you have the audio cable securely connected to the source device and the audio input on the projector.
- Make sure the volume is not set to the minimum on the source and the projector.
- Make sure the Mute feature is off.

Remote Control Troubleshooting

- Make sure the operating angle of the remote control is within $\pm 30^\circ$ both horizontally and vertically of one of the IR receivers on the projector.
- Make sure there are no obstructions between the remote control and the projector.
- Move to within 7 m ($\pm 0^\circ$) of the projector.
- Make sure the battery is inserted correctly.
- Replace the battery.

Contacting Mimio

Mimio maintains an Internet Web site that offers support for MimioClassroom products. In addition, Mimio's Technical Support department is available by phone.

Web site: www.mimio.com

Phone: (877) 846-3721

Mimio Technical Support is available from 9am - 5pm ET, Monday through Friday.

When calling Mimio Technical Support, please have your product serial number available. The serial number for your MimioProjector is located near the input/output connection ports on the back of your projector.



Visit the Support section of our Web site at www.mimio.com to contact us by email.

Compatibility Modes

VGA Analog

PC Signal

Modes	Resolution	V. Frequency [Hz]	H. Frequency [Hz]
VGA	640x480	60	31.5
	640x480	67	35.0
	640x480	72	37.9
	640x480	75	37.5
	640x480	85	43.3
	640x480	120	61.9
IBM	720x400	70	31.5
SVGA	800x600	56	35.1
	800x600	60	37.9
	800x600	72	48.1
	800x600	75	46.9
	800x600	85	53.7
	800x600	120	77.4
Apple, MAC II	832x624	75	49.1
XGA	1024x768	60	48.4
	1024x768	70	56.5
	1024x768	75	60.0
	1024x768	85	68.7
	1024x768	120	99.0

Modes	Resolution	V. Frequency [Hz]	H. Frequency [Hz]
Apple, MAC II	1152x870	75	68.7
SXGA	1280x1024	60	64.0
	1280x1024	72	77.0
	1280x1024	75	80.0
QuadVGA	1280x960	60	60.0
	1280x960	75	75.2
SXGA+	1400x1050	60	65.3
UXGA	1600x1200	60	75.0

Extended Wide Timing

Modes	Resolution	V. Frequency [Hz]	H. Frequency [Hz]
WXGA	1280x720	60	44.8
	1280x800	60	49.6
	1366x768	60	47.7
	1440x900	60	59.9
WSXGA+	1680x1050	60	65.3

Component Signal

Modes	Resolution	V. Frequency [Hz]	H. Frequency [Hz]
480i	720x480(1440x480)	59.94(29.97)	15.7
576i	720x576(1440x576)	50(25)	15.6
480p	720x480	59.94	31.5
576p	720x576	50	31.3
720p	1280x720	60	45.0
	1280x720	50	37.5
1080i	1920x1080	60(30)	33.8
	1920x1080	50(25)	28.1
1080p	1920x1080	23.98/24	27.0
	1920x1080	60	67.5
	1920x1080	50	56.3

HDMI Digital

PC Signal

Modes	Resolution	V. Frequency [Hz]	H. Frequency [Hz]
VGA	640x480	60	31.5
	640x480	67	35.0
	640x480	72	37.9
	640x480	75	37.5
	640x480	85	43.3
	640x480	120	61.9
IBM	720x400	70	31.5
SVGA	800x600	56	35.1
	800x600	60	37.9
	800x600	72	48.1
	800x600	75	46.9
	800x600	85	53.7
	800x600	120	77.4
Apple, MAC II	832x624	75	49.1
XGA	1024x768	60	48.4
	1024x768	70	56.5
	1024x768	75	60.0
	1024x768	85	68.7
	1024x768	120	99.0

Modes	Resolution	V. Frequency [Hz]	H. Frequency [Hz]
Apple, MAC II	1152x870	75	68.7
SXGA	1280x1024	60	64.0
	1280x1024	72	77.0
	1280x1024	75	80.0
QuadVGA	1280x960	60	60.0
	1280x960	75	75.2
SXGA+	1400x1050	60	65.3
UXGA	1600x1200	60	75.0

Extended Wide Timing

Modes	Resolution	V. Frequency [Hz]	H. Frequency [Hz]
WXGA	1280x720	60	44.8
	1280x800	60	49.6
	1366x768	60	47.7
	1440x900	60	59.9
WSXGA+	1680x1050	60	65.3

Video Signal

Modes	Resolution	V. Frequency [Hz]	H. Frequency [Hz]
480p	640x480	59.94/60	31.5
480i	720x480(1440x480)	59.94(29.97)	15.7
576i	720x576(1440x576)	50(25)	15.6
480p	720x480	59.94	31.5
576p	720x576	50	31.3
720p	1280x720	60	45.0
	1280x720	50	37.5
1080i	1920x1080	60(30)	33.8
	1920x1080	50(25)	28.1
1080p	1920x1080	23.98/24	27.0
	1920x1080	60	67.5
	1920x1080	50	56.3

HDMI 1.4a Mandatory 3D Timing - Video Signal

Modes	Resolution	V. Frequency [Hz]	H. Frequency [Hz]
Frame Packing	720p	50	31.5
	720p	59.94/60	15.7
	1080p	23.98/24	15.6
Side-by-Side(Half)	1080i	50	31.5
	1080i	59.94/60	31.3
Top and Bottom	720p	50	45.0
	720p	59.94/60	37.5
	1080p	23.98/24	33.8

Technical and Environmental Information

This chapter contains technical information for the MimioProjector.

For product specifications and compliance information, visit the Documentation section of the Support area of our Web site at www.mimio.com.

Usage Notice

Follow all warnings, precautions, and maintenance as recommended in this user guide.

Warnings

- Do not look into the projector lens when the lamp is on. The bright light may hurt and damage your eyes.
- To avoid the risk of fire or electric shock, do not expose the projector to rain or moisture.
- Do not open or disassemble the projector as this may cause electric shock.
- When replacing the lamp, allow the unit to cool down first. Follow the instructions as described under **Replacing the Lamp** on page 67.
- The projector has a timer to track the life of the lamp. Be sure to replace the lamp when the projector displays the lamp warning message.
- After replacing the projector lamp, reset the lamp hours setting. See **Clear Lamp Hours** on page 51 for information about resetting the lamp hours.
- When turning the projector power off, ensure that the cooling cycle completes before disconnecting the power. Allow 10 seconds for the projector to cool down.
- Do not block the light path between the light source and the lens with any object. Doing so could cause the object to catch on fire.
- Do not look into or point the laser pointer from the laser curtain module into any person's eyes. Laser pointers can cause permanent damage to eyesight.

Precautions

- Turn off and unplug the power plug from the AC outlet before cleaning the product.
- Use a soft damp cloth with mild detergent to clean the display housing.
- Disconnect the power plug from the AC outlet if the product is not being used for a long period of time.
- Use a soft dry cloth to clean the lens if needed. Be sure the projector has been turned off and allowed to cool.

Do not do the following

- Block the ventilation slots and openings on the unit.
- Use abrasive cleaners, waxes, or solvents to clean the unit.
- Use under the following conditions:
 - In extremely hot, cold, or humid environments.
 - Ensure that the ambient room temperature is between 5°C - 40°C (41°F - 104°F).
 - Ensure relative humidity is a maximum of 80%, non-condensing.
 - In areas susceptible to excessive dust and dirt.
 - In direct sunlight.

Regulation & Safety Notices

This section lists the general notices of your projector.

FCC Notice

This device has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the device and receiver.
- Connect the device into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

Notice

Shielded cables all connections to other computing devices must be made using shielded cables to maintain compliance with FCC regulations.

Caution

Changes or modifications not expressly approved by the manufacturer could void the user's authority, which is granted by the Federal Communications Commission, to operate this projector.

Operating Conditions

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference and
2. This device must accept any interference received, including interference that may cause undesired operation.

Notice: Canadian Users

This Class B digital apparatus complies with Canadian ICES-003.

Remarque à L'intention des Utilisateurs Canadiens

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Declaration of Conformity for EU countries

- EMC Directive 2004/108/EC (including amendments)
- Low Voltage Directive 2006/95/EC
- R & TTE Directive 1999/5/EC (if product has RF function)

Projector Mount Safety Notices

Read these warnings carefully and use the product as intended.

- The manufacturer shall not be legally responsible for any equipment damage or personal injury caused by incorrect installation or operation.
- The wall mount is designed for easy installation and removal. The manufacturer shall not be liable for damage to equipment or personal injuries arising from human factors or acts of God, such as earthquake or typhoon.
- The wall mount must be installed by professional personnel only.
- To avoid any hazard caused by falling objects, a minimum of two persons are needed to install or remove the wall mount.
- Maintain ample space around the projector to ensure good ventilation.
- To ensure safety and avoid any accident, investigate the structure of the wall and select an appropriate and durable location for the product before installing.
- The wall must have load-carrying capability to sustain more than four times the total weight of the projector and the wall mount.
- Check the areas around the installation location carefully.
 - Do not install the product in an area subject to high temperature, humidity, or contact with water.
 - Do not install the product in a location subject to dust or fumes.
 - Do not install the product on slanted surfaces; install only on vertical walls.
 - Do not install the product in an area subject to vibrations or shocks.
 - Do not install the product in an area subject to direct exposure to bright light; doing so may cause eye fatigue when viewing the projected image.
- Do not modify any accessory or use broken parts. Contact Mimio Technical Support with any questions.
- Tighten all screws, but do not apply excessive torque to any screw. Excessive torque may break or damage the screw or screw threads.

- The wall mount is rated for a maximum load of 15 Kg (33 lbs.).
- Do not hang or place any objects on the wall mount other than the projector.

Documentation Feedback

We are constantly working to produce the highest quality documentation for our products. We welcome your feedback. Send us your comments or suggestions about our online Help, printed, or PDF manuals.

Please include the following information with your feedback:

- Product name and version number (if applicable)
- Type of document: printed manual, PDF, or online Help
- Topic title (for online Help) or page number (for printed or PDF manuals)
- Brief description of content (for example, step-by-step instructions that are inaccurate, information that requires clarification, areas where more detail is needed, and so on)
- Suggestions for how to correct or improve the documentation

We also welcome your suggestions for additional topics you would like to see covered in the documentation.

Send email feedback to:

`documentation@mimio.com`

Please keep in mind that this email address is only for documentation feedback. If you have a technical question, please contact Mimio Technical Support.