



Screen Size Calculation Sheet

Determine the Height and width of the desired screen size. Viewing distance for a 720p resolution projector should be no less than 1.5 times the screen width while 1080p / 4K / 8K should be no less than 1.2 times the screen width.

A 16:9 projection screen is 1.78 times as wide as it is high. $16 / 9 = 1.78$

Examples:

Diagonal Size of a home theater projector screen: 100"

Projector screen height: $0.495 \times 100" = 49.5$ inches

Projector screen width: $0.87 \times 100" = 87$ inches

Diagonal Size of a home theater projection screen: 110"

Projector screen height: $0.495 \times 110" = 54.5"$

Projector screen width: $0.87 \times 110" = 95.7"$

If you know the projection screen width, and need to calculate the diagonal and height of a screen:

Projector screen diagonal: To calculate the projector screen diagonal from the known width, divide the width by 0.87

Projector screen height: To calculate the projection screen height, from the known width, multiply the width by 0.57

Examples:

Width of a home theater projector screen: 100"

Projector screen diagonal: $100" / 0.87 = 115"$

Projector screen height: $100" \times 0.57 = 57"$

Width of a home theater projection screen: 80"

Projector screen diagonal: $80" / 0.87 = 92"$

Projector screen height: $80" \times 0.57 = 45.6"$

Quick Tip

Install and turn on projector. View different video sources and formats onto the intended screen surface or wall. Use tape to mark the wall where the boundaries of the images land.

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