

THROW DISTANCE

Calculating Throw Distance

It is important throw distance be precisely calculated for your installation using the appropriate formula from the chart below. To calculate throw distance you must know the screen size and the lens type installed in the projector. In general, the larger you want the image to be the greater the distance you must allow between the lens and the screen.

NOTES: **1)** *Throw distance is measured from the screen to the front of the projector's front feet (on Integrated (i) units) or internal light engine face (on Full Dress (FD) units).* **2)** *This measurement is not necessarily parallel to the floor as the projector and screen may be inclined.* **3)** **Due to lens manufacturing, throw distance calculations have a tolerance of $\pm 5\%$.**

Throw Distance Calculation for DCX-i

Throw Distance measured from screen to front of Projector

1.45 - 1.8 HD Min. $1.45 \times \text{screen width} + 1.79$

1.86 - 2.58 HD Min. $1.86 \times \text{screen width} - 3.95$

2.65 - 4.0 HD Min. $2.65 \times \text{screen width} + 11.33$

4.5 - 6.7 HD Min. $4.5 \times \text{screen width} + 10.664$

Divide max throw by 1.33 for VariScope min throw for 1.78 to 2.35 screen

Throw Distance Calculation for DCX-FD

Throw Distance measured from screen to front of Projector

1.45 - 1.8 HD Min. $1.45 \times \text{screen width} + 12.04$

1.86 - 2.58 Min. $1.86 \times \text{screen width} + 6.3$

2.65 - 4.0 HD Min. $2.65 \times \text{screen width} + 21.58$

4.5 - 6.7 HD Min. $4.5 \times \text{screen width} + 20.9$

Divide max throw by 1.33 for VariScope min throw for 1.78 to 2.35 screen

Throw Distance Calculation for DCX-i and DCX-FD VariScope 2.35

Throw Distance measured from screen to front VariScope housing

1.45 - 1.8 HD Min. $1.45 \times \text{screen width} + 12.04$

1.86 - 2.58 HD Min. $1.8671 \times \text{screen width} + 6.3$

2.65 - 4.0 HD Min. $2.65 \times \text{screen width} + 21.58$

4.5 - 6.7 HD Min. $4.5 \times \text{screen width} + 20.9$

Divide max throw by 1.12 for VariScope min throw for 1.78 to 2.35 or larger screen