


## Specifications

 All specifications are subject to change without notice.

### Optical

|                               |                                   |
|-------------------------------|-----------------------------------|
| <b>Projection system</b>      | Single-chip DLP™ system.          |
| <b>DMD chip</b>               | 0.95" DLP (1920 x 1080)           |
| <b>Lens</b>                   | F=2.4 to 2.7, f=38.87 to 46.63 mm |
| <b>Projection screen size</b> | 41" to 300"                       |
| <b>Lamp</b>                   | 200W                              |

### Electrical

|                      |  |
|----------------------|--|
| <b>Compatibility</b> | PC: 640 x 400 to 1920 x 1080 (16:9)<br>Video: NTSC, PAL, SECAM, YPbPr NTSC(480i)/480p/PAL(576i)/576p,<br>HDTV (720p/1080i)<br>DDC 2B |
| <b>Color Space</b>   | Color Gamut > 55% NTSC   |

### Terminals

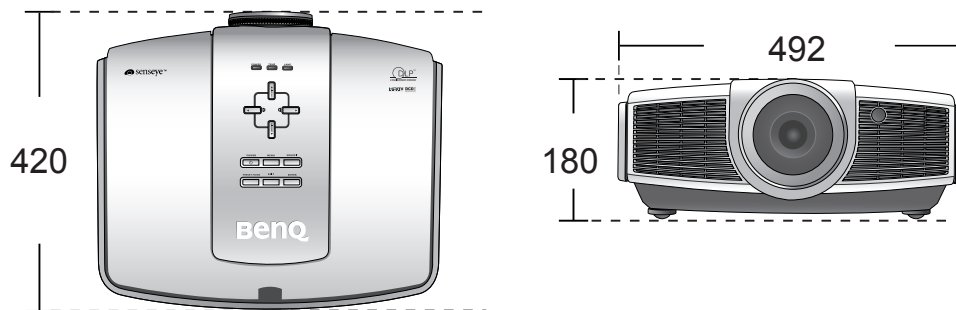
|                |  |
|----------------|--|
| <b>Input</b>   | Analog RGB: BNC x 5<br>HDMI (V. 1.2) x 2<br>Component Video (Y/ CB/ CR, Y/ PB/ PR) x 1<br>Component Video (Y/ CB/ CR, Y/ PB/ PR) x 1 (shared with BNC)<br>Composite Video x 1<br>S-Video x 1 |
| <b>Output</b>  | 12VDC (Max. 0.5 A)   |
| <b>Control</b> | Serial Connector: RS232 8 pin MINI DIN   |

### General characteristics

|                              |   |
|------------------------------|---|
| <b>Projector weight</b>      | 9.6 kg (21.2 lbs)   |
| <b>Power</b>                 | VAC 100-240V, 3.2A, 50-60Hz (Automatic)                                       |
| <b>Power consumption</b>     | Max. 340W   |
| <b>Operating temperature</b> | 0 °C to 35 °C at sea level  |
| <b>Operating humidity</b>    | 10% - 90% (without condensation)  |
| <b>Operating altitude</b>    | 0-1499 m at 0°C-35°C<br>1500-3000 m at 23°C-30°C (with High Altitude Mode on) |
| <b>Storage temperature</b>   | -20°C- 60°C/-4°F to 140°F   |
| <b>Storage humidity</b>      | 10% - 90%   |

### Dimensions

492 x 180 x 420 mm (W x H x D)



Unit: mm

## Timing chart

### Supported timing for RGBHV input (Analog or Digital PC signals)

| Format      | Resolution  | Refresh rate(Hz) | H. Freq.(KHz) | Pixel Freq.(MHz) |
|-------------|-------------|------------------|---------------|------------------|
| 720 x 400   | 720 x 400   | 70               | 31.469        | 28.322           |
|             |             | 85               | 37.9          | 35.5             |
| 640 x 480   | 640 x 480   | 60               | 31.469        | 25.175           |
|             |             | 72               | 37.861        | 31.5             |
|             |             | 75               | 37.5          | 31.5             |
|             |             | 85               | 43.269        | 36               |
| 800 x 600   | 800 x 600   | 50               | 31.3          | 32.051           |
|             |             | 56               | 35.156        | 36               |
|             |             | 60               | 37.879        | 40               |
|             |             | 72               | 48.077        | 50               |
|             |             | 75               | 46.875        | 49.5             |
| 848 x 480   | 848 x 480   | 85               | 53.674        | 56.25            |
|             |             | 60               | 31.02         | 33.75            |
| 1024 x 768  | 1024 x 768  | 60               | 48.363        | 65               |
|             |             | 70               | 56.476        | 75               |
|             |             | 75               | 60.023        | 78.75            |
|             |             | 85               | 68.677        | 94.5             |
| 1152 x 864  | 1152 x 864  | 75               | 67.5          | 108              |
| 1280 x 768  | 1280 x 768  | 60               | 47.396        | 68.25            |
|             |             | 60               | 47.776        | 79.5             |
|             |             | 75               | 60.289        | 102.25           |
|             |             | 85               | 68.633        | 117.5            |
| 1280 x 960  | 1280 x 960  | 60               | 60            | 108              |
|             |             | 85               | 85.938        | 148.5            |
| 1280 x 1024 | 1280 x 1024 | 60               | 63.981        | 108              |
|             |             | 75               | 79.976        | 135              |
|             |             | 85               | 91.146        | 157.5            |
| 1360 x 768  | 1360 x 768  | 60               | 47.712        | 85.5             |
| 1400 x 1050 | 1400 x 1050 | 60               | 64.744        | 101              |
|             |             | 60               | 65.317        | 121.75           |
|             |             | 75               | 82.278        | 156              |
| 1440 x 900  | 1440 x 900  | 60               | 55.469        | 88.75            |
|             |             | 60               | 59.935        | 106.5            |
|             |             | 75               | 70.635        | 136.75           |
|             |             | 85               | 80.43         | 157              |
| 1600 x 1200 | 1600 x 1200 | 60               | 75            | 162              |
| 1680 x 1050 | 1680 x 1050 | 60               | 64.674        | 119              |
|             |             | 60               | 65.29         | 146.25           |
| 1920 x 1200 | 1920 x 1200 | 60               | 74.038        | 154              |

**Supported timing for HDMI input**

| Format   | Resolution  | Refresh rate(Hz) | H. Freq.(KHz) | Pixel Freq.(MHz) |
|----------|-------------|------------------|---------------|------------------|
| 480/60i  | 720 x 487   | 59.94            | 15.734        | 13.5             |
| 480/60p  | 720 x 483   | 59.94            | 31.469        | 27               |
| 576/50i  | 720 x 576   | 50               | 15.625        | 14.75            |
| 576/50p  | 720 x 576   | 50               | 31.25         | 29               |
| 720/50p  | 1280 x 720  | 50               | 37.5          | 75.25            |
| 720/60p  | 1280 x 720  | 60               | 45            | 74.25            |
| 1080/50i | 1920 x 1080 | 50               | 28.125/31.25  | 74.25/72         |
| 1080/60i | 1920 x 1080 | 59.94/60         | 33.716/33.75  | 74.175/74.25     |
| 1080/24P | 1920 x 1080 | 23.98/24         | 26.978/27     | 74.175/74.25     |
| 1080/25P | 1920 x 1080 | 25               | 28.125        | 74.25            |
| 1080/30P | 1920 x 1080 | 29.97/30         | 33.716/33.75  | 74.175/74.25     |
| 1080/50P | 1920 x 1080 | 50               | 56.25         | 148.5            |
| 1080/60P | 1920 x 1080 | 59.94/60         | 67.433/67.5   | 148.35/148.5     |

**Supported timing for EDTV and HDTV (via Component and RGBHV inputs)**

| Format   | Resolution  | Refresh rate(Hz) | H. Freq.(KHz) | Pixel Freq.(MHz) |
|----------|-------------|------------------|---------------|------------------|
| 480/60i  | 720 x 487   | 59.94            | 15.734        | 13.5             |
| 480/60p  | 720 x 483   | 59.94            | 31.469        | 27               |
| 576/50i  | 720 x 576   | 50               | 15.625        | 14.75            |
| 576/50p  | 720 x 576   | 50               | 31.25         | 29               |
| 720/50p  | 1280 x 720  | 50               | 37.5          | 75.25            |
| 720/60p  | 1280 x 720  | 60               | 45            | 74.25            |
| 1080/50i | 1920 x 1080 | 50               | 28.125/31.25  | 74.25/72         |
| 1080/60i | 1920 x 1080 | 59.94/60         | 33.716/33.75  | 74.175/74.25     |
| 1080/24P | 1920 x 1080 | 23.98/24         | 26.978/27     | 74.175/74.25     |
| 1080/25P | 1920 x 1080 | 25               | 28.125        | 74.25            |
| 1080/30P | 1920 x 1080 | 29.97/30         | 33.716/33.75  | 74.175/74.25     |
| 1080/50P | 1920 x 1080 | 50               | 56.25         | 148.5            |
| 1080/60P | 1920 x 1080 | 59.94/60         | 67.433/67.5   | 148.35/148.5     |

**Supported timing for Video and S-Video inputs**

| Format    | Resolution | Refresh rate(Hz) | H. Freq.(KHz) | Pixel Freq.(MHz) |
|-----------|------------|------------------|---------------|------------------|
| NTSC 3.58 | -          | 59.94/60         | 15.734/15.75  | 3.58             |
| NTSC 4.43 | -          | 59.94/60         | 15.734/15.75  | 4.43             |
| PAL-B/G   | -          | 50               | 15.625        | 4.43             |
| PAL M     | -          | 59.94/60         | 15.734/15.75  | 3.58             |
| PAL N     | -          | 50               | 15.625        | 3.58             |
| PAL 60    | -          | 59.94/60         | 15.734/15.75  | 4.43             |
| SECAM     | -          | 50               | 15.625        | 4.25/4.41        |