# LH820ST+

## BenQ DLP Projector

→ 4000 ANSI Lumens Laser New Light Source
→ White Balance Adjustment in Factory
→ 2D Keystone & Corner Fit
→ IP5X DustGuard for Advanced Durability
→ 30,000 hours Maintenance-free Laser Light Source
→ 0.497 Short Throw Ratio
→ Easy Firmware Updater via LAN to Simplify Centralized Network Management
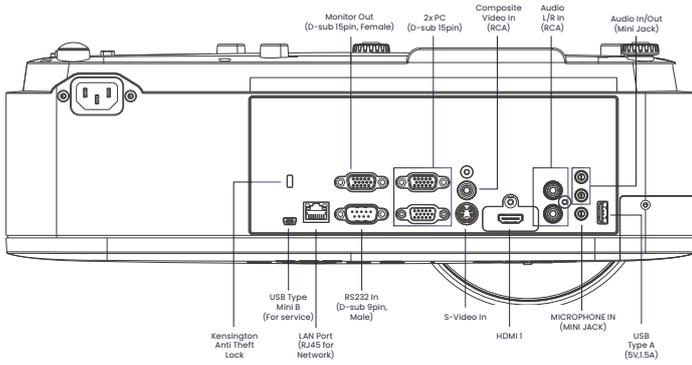
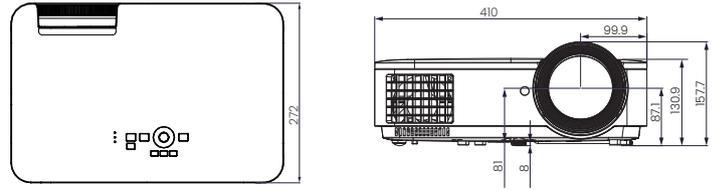| | |
|---|---|
| **Display** | |
| **Projection System** | DLP Single 0.65" 1080p |
| **DMD Type** | DC3 DMD Chip |
| **Native Resolution** | 1080p (1920 x 1080) |
| **Brightness** | 4000 ANSI Lumens |
| **Contrast Ratio\*** | 3,000,000 : 1 |
| **Display Colour** | 30 Bits (1.07 Billion Colours) |
| **Aspect Ratio** | Native 16:9 (5 Aspect Ratio Selectable) |
| **Light Source** | Laser |
| **Light Source Life\*\* (Normal/Eco/SmartEco®)** | 20,000/30,000/30,000 hours |
| **Optical** | |
| **Throw Ratio** | 0.497 (Wide 100" @ 1.1m) |
| **Zoom Ratio** | Fixed |
| **Keystone Correction** | 2D, Vertical & Horizontal ±30 degrees |
| **Projection Offset** | 109 ± 3% |
| **Projection Size** | 70"~120" |
| **Audio** | |
| **Built-In Speaker** | 10W x1 |
| **Special Feature** | |
| **Security** | Security Bar, Kensington lock |
| **Features** | 2D Keystone, Corner Fit, LAN Control, FW upgrade via USB |
| **Compatibility** | |
| **Resolution Support** | VGA (640 x 480) to WUXGA_RB (1920 x 1200) |
| **Horizontal Frequency** | 15K~102KHz |
| **Vertical Scan Rate** | 23~120Hz |
| **HDTV Compatibility** | 480i, 480p, 576i, 567p, 720p, 1080i, 1080p |
| **Video Compatibility** | SDTV (480i/576i), EDTV (480p/576p), HDTV (720p, 1080i/p 60Hz) |
| **Power** | |
| **Power Consumption (Max/Normal/Eco)** | 335W/315W/252W |
| **Standby Power Consumption** | Normal < 0.5W |
| **Power Supply** | 100 ~ 240V AC |
| **Dimension and Weight** | |
| **Product Dimensions (WxHxD)** | 410 x 157.7 x 272mm |
| **Product Weight** | 5.5Kg ±100gr |
| **Operation Condition** | |
| **Noise Level (Normal/Eco)** | 33/29 dBA |
| **Operating Temperature** | 0 ~ 40°C |
| **Accessories** | |
| **Accessories (Standard)** | QSG (4J.JRN01.001), Remote Control RCA011 (5J.JJ606.001), AAA Battery x2, VGA cable (1.5m), Power Cord (1.8m), Warranty card (by Region) |
| **Accessories (Optional)** | Ceiling mount (5J.JAM10.001) |
| **OSD** | |
| **On Screen Display Language** | Arabic/Bulgarian/Croatian/Czech/Danish/Dutch/English/Finnish/French/German/Greek/Hindi/Hungarian/Italian/Indonesian/Japanese/Korean/Norwegian/Polish/Portuguese/Romanian/Russian/Simplified Chinese/Spanish/Swedish/Turkish/Thai/Traditional Chinese/Farsi/Vietnamese (30 Languages) |
| **Other** | |
| **Part Number** | 9H.JRN77.33H |
| **EAN Code** | 471 8755 09349 4 |

\*    The Contrast is measured by Full On/Full Off standard.
\*\*  Light Source Life results will vary depending on environmental conditions and usage. Actual product's features and specifications are subject to change without notice.

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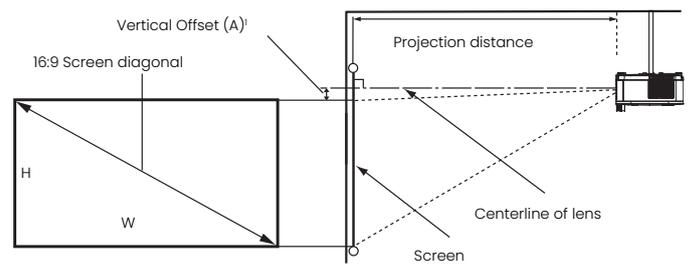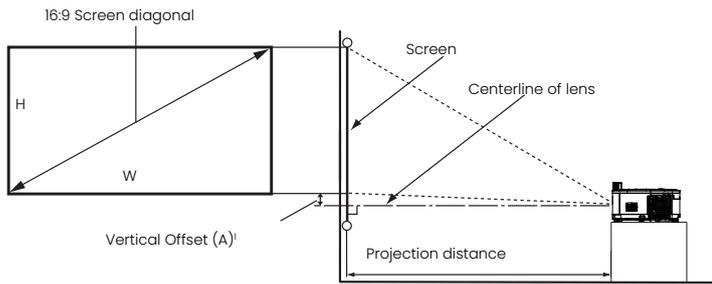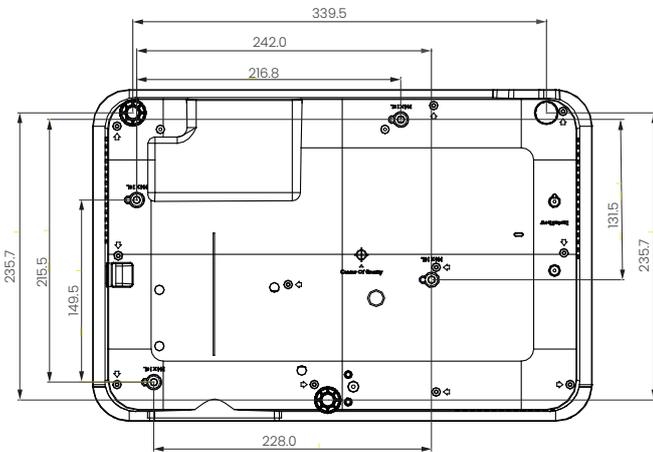## INPUT AND OUTPUT TERMINALS



## DIMENSIONS



Unit: mm

## PROJECTION DIMENSIONS



## CEILING / WALL MOUNT CHART



Ceiling/Wall mount screw: M4 (Max L = 25 mm; Min L = 20 mm)

Unit: mm

## DISTANCE CHART[2]

| Screen Size | | | | Projection distance (mm) | Vertical offset (mm)[1] |
|---|---|---|---|---|---|
| Diagonal Size | | H (mm) | W (mm) | | |
| inch | mm | | | | |
| 60 | 1524 | 747 | 1328 | 657 | 75 |
| 70 | 1778 | 872 | 1550 | 767 | 87 |
| 80 | 2032 | 996 | 1771 | 876 | 99 |
| 90 | 2286 | 1121 | 1992 | 986 | 111 |
| 100 | 2540 | 1245 | 2214 | 1095 | 123 |
| 110 | 2794 | 1370 | 2435 | 1205 | 135 |
| 120 | 3048 | 1494 | 2657 | 1315 | 147 |

[1] The vertical offset value is the vertical distance from the bottom edge of the image (when the projector is on a table, diagram on the left), or top edge of the image (when the projector is ceiling mounted, diagram on the right) to the centerline of lens.

[2] To optimize the projection quality, we suggest to project images in an area without grayscale.



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**benq.eu/en-eu/business/projector.html**