



BenQ DLP Projector

W2720 (i)

- Feature Highlight**
- \* True 4K UHD (3840 × 2160) 8.3M Pixel resolution
  - \* 2500lm Brightness 4LED
  - \* AI PQ for ambient condition
  - \* BenQ CinematicColor™ 95% DCI-P3 Wide Color Gamut
  - \* HDR10/HLG/HDR10+
  - \* HDR Pro™
  - \* Factory Calibrated Report
  - \* 1.3X big zoom lens and Vertical lens shift
  - \* Google certificated android TV dongle with Netflix – QS02



| Display                                                    |                                                                                                                          |
|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Projection System                                          | DLP                                                                                                                      |
| DMD type                                                   | 0.47"                                                                                                                    |
| Native Resolution                                          | 4K UHD (3840 × 2160) Resolution                                                                                          |
| Brightness                                                 | 2500 ANSI Lumens                                                                                                         |
| Contrast Ratio*                                            | Native 760:1, Infinity (w/ Dynamic Dimming)                                                                              |
| Display Color                                              | 30 Bits (1,07 billion colors)                                                                                            |
| Aspect Ratio                                               | Native 16:9 (3 aspect ratio selectable)                                                                                  |
| Light Source                                               | 4LED                                                                                                                     |
| Light Source life**                                        | Normal 20000 hrs                                                                                                         |
|                                                            | Economic 30000 hrs                                                                                                       |
|                                                            | SmartEco 20000 hrs                                                                                                       |
| Optical                                                    |                                                                                                                          |
| Throw Ratio                                                | 1.15 ~ 1.50 (100" @ 2.5m)                                                                                                |
| Zoom Ratio                                                 | 1.3X                                                                                                                     |
| Lens                                                       | F/# 1.8 - 1.85 mm, f 10.6 (Wide)~13.7(Tele)                                                                              |
| Keystone Correction                                        | 2D, Auto Vertical & Manual Horizontal ± 30 degree                                                                        |
| Projection Offset                                          | 100%                                                                                                                     |
| LenShift                                                   | Vertical ±5%                                                                                                             |
| Projection Size (Clear Focus / Maximum)                    | 40" ~ 120" / 30" ~ 300"                                                                                                  |
| Audio                                                      |                                                                                                                          |
| Built-in Speaker                                           | 5W*2                                                                                                                     |
| Picture                                                    |                                                                                                                          |
| Picture Mode                                               | *** ISF Disabled: Bright / <b>AI Cinema</b> / Cinema / FILMMAKER MODE / 3D / User / HDR AI Cinema / HDR10 / HDR10+ / HLG |
|                                                            | **** ISF Enabled: Bright / AI Cinema / Cinema / FILMMAKER MODE / <b>ISF Night</b> / ISF Day                              |
| DCI-P3 Coverage (WCG On)                                   | 95%                                                                                                                      |
| Special Feature                                            |                                                                                                                          |
| Motion Enhancer                                            | Yes                                                                                                                      |
| Local Contrast Enhancer                                    | Yes                                                                                                                      |
| ISF                                                        | Yes                                                                                                                      |
| Fast Mode                                                  | Yes (17.9ms @4K 60Hz, 1080p 60Hz, 8.7ms @1080p240Hz, 21ms@1080p120Hz)                                                    |
| Compatibility                                              |                                                                                                                          |
| Resolution Support                                         | VGA (640 × 480) to 4K UHD (3840 × 2160)                                                                                  |
| Horizontal Frequency                                       | 15K-135KHz                                                                                                               |
| Vertical Scan Rate                                         | 23-240Hz                                                                                                                 |
| HDTV Compatibility                                         | 480i, 480p, 576i, 576p, 720p, 1080i, 1080p, 2160p                                                                        |
| Video Compatibility                                        | N/A                                                                                                                      |
| Power                                                      |                                                                                                                          |
| Power Consumption(Max/Normal/Eco)                          | Max 290W, Normal 260W, Eco 220W                                                                                          |
| Standby Power Comsumption                                  | 0.5W Max. at 100 ~ 240VAC                                                                                                |
| Power Supply                                               | VAC 100 ~ 240 (50/60Hz)                                                                                                  |
| Interface                                                  |                                                                                                                          |
| HDMI-1 (HDCP 2.3)                                          | x 1                                                                                                                      |
| HDMI-2 (Audio Return+) (HDCP 2.3, CEC/ARC/eARC)            | x 1 (5.1/7.1/Dolby Atmos audio pass through)                                                                             |
| HDMI-3 (HDCP 2.3)                                          | x 1 (FRL: 4k@120Hz input/1080P@120Hz output)                                                                             |
| USB 2.0 Type-A port (Media Reader/Scalar Firmware upgrade) | x 1                                                                                                                      |
| USB 2.0 Type-A port (5V/2.5A power supply)                 | x 1                                                                                                                      |
| USB 2.0 Type Mini B (TI Firmware upgrade)                  | x 1                                                                                                                      |
| Audio Out (3.5mm mini jack)                                | x1                                                                                                                       |
| 12V Trigger (3.5mm Jack)                                   | x1                                                                                                                       |
| RS232 In (D-sub 9pin, male)                                | x1                                                                                                                       |
| Audio Out (SPDIF)                                          | x1 (5.1 channel audio pass through)                                                                                      |
| Hidden Space for QS02 ATV dongle                           |                                                                                                                          |
|                                                            | - HDMI Mini Male cable (HDCP2.2)                                                                                         |
|                                                            | - USB Micro-B Male cable (5V/1.5A Power supply)                                                                          |
| IR Receiver (Front/Top)                                    | x 2                                                                                                                      |
| Dimension and Weight                                       |                                                                                                                          |
| Product Dimensions (WxHxD)                                 | 420 × 143 × 305 mm                                                                                                       |
| Product Weight                                             | 6.5 kg                                                                                                                   |
| Operation Condition                                        |                                                                                                                          |

|                         |                        |
|-------------------------|------------------------|
| Noise Level(Normal/Eco) | 28/26 dBA              |
| Operating Temperature   | 0~40 degrees (Celcius) |

Accessories

|                        |                                                                                                                                                                                                                                                                                                                        |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Accessories (Standard) | Remote Control<br>- W2720i (RCI074: 5JJR406.001)<br>Android TV Dongle QS02 (5AJH328.01A)<br>Power Cord (by region) x 1 (1.8m)<br>User Manual E-edition (27L)<br>Quick Start Guide (21L)<br>Color Calibration Report<br>Warranty Card (by region)<br>Regulatory Statements<br>Service QR Code Sticker<br>Lens cover x 1 |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                        |                                |
|------------------------|--------------------------------|
| Accessories (Optional) | Universal Wall Mount (T/R 0.3) |
|------------------------|--------------------------------|

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/<br>Romanian/ Russian/ Simplified Chinese/Spanish/ Swedish/ Turkish/ Thai/ Traditional Chinese (28 Languages) |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Environment Notice

\* The Contrast is measure by Full On Full Off standard.

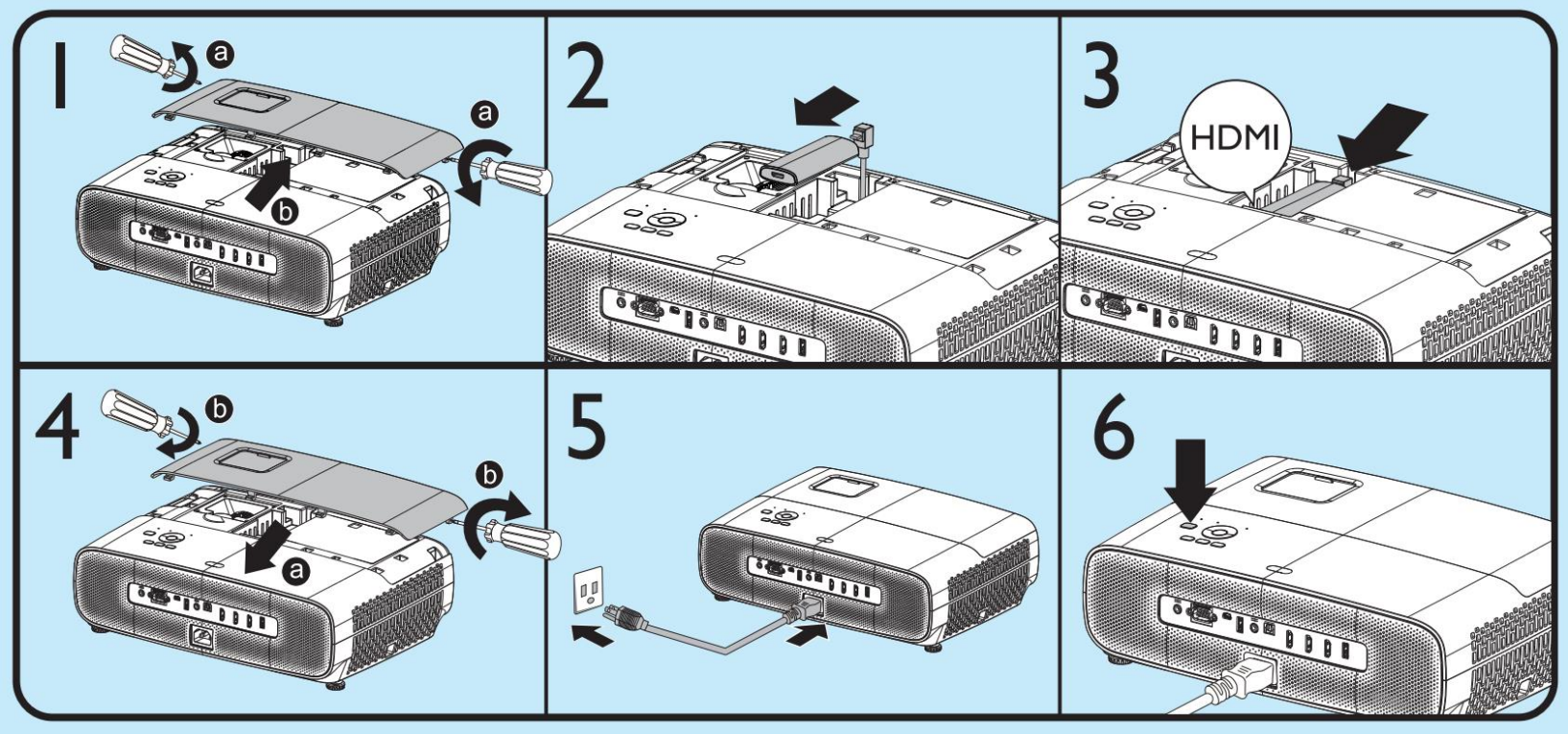
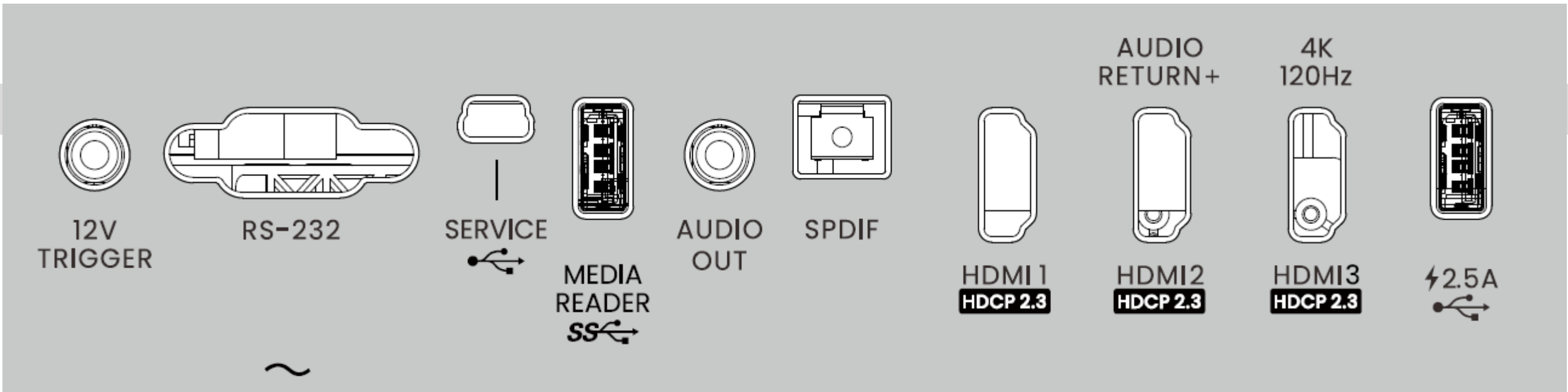
\*\* Light life results will vary depending on environmental conditions and usage. Actual product's features and specifications are subject to change without notice.

\*\*\* Default picture mode is **AI Cinema**

\*\*\*\* When ISF is enable, default picture mode is **ISF Night**.



Connectivity

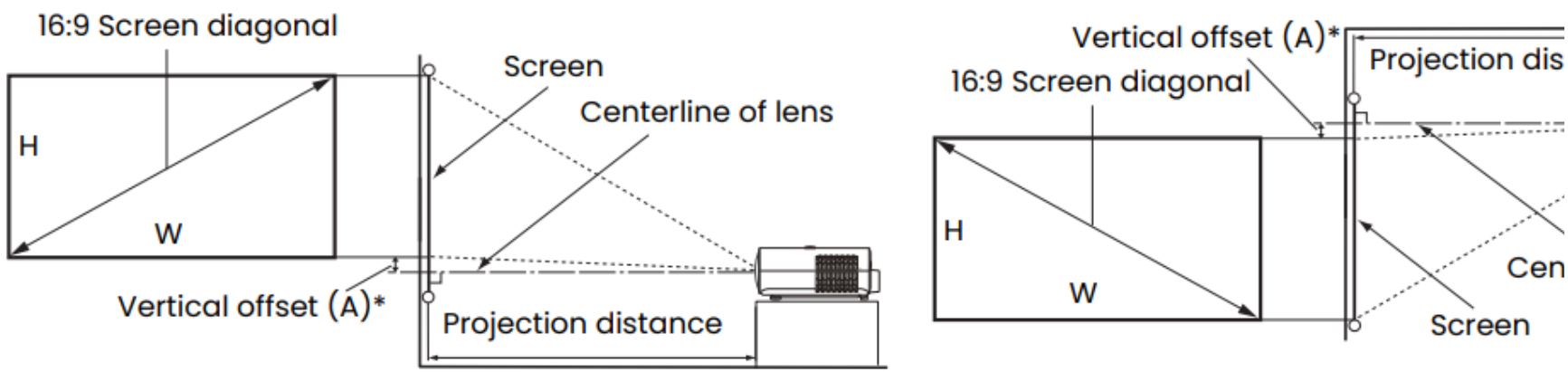


| No | I/O                                                                       | Quantity |
|----|---------------------------------------------------------------------------|----------|
| 1  | SPDIF audio output (5.1 channel audio pass through)                       | 1        |
| 2  | Audio Out (3.5mm jack)                                                    | 1        |
| 3  | USB Type-A (Media Reader/Scalar Firmware upgrade)                         | 1        |
| 4  | HDMI-1 (HDCP2.3)                                                          | 1        |
| 5  | HDMI-2 (HDCP2.3) (Audio Return+) (5.1/7.1/Dolby Atmos audio pass through) | 1        |
| 6  | HDMI-3 (HDCP2.3) (FRL: 4k@120Hz input/1080P@120Hz output)                 | 1        |
| 7  | USB Type-A (2.5A power supply)                                            | 1        |
| 8  | USB (Type Mini B)                                                         | 1        |
| 9  | RS232 In (D-sub 9pin, male)                                               | 1        |
| 10 | DC 12V Trigger                                                            | 1        |
| 11 | Hidden Space for ATV dongle                                               | 1        |
|    | - HDMI Male cable (2.0b, HDCP2.2)                                         | 1        |
|    | - Micro USB Male cable (Power supply 5V/1.5A)                             | 1        |

Installation

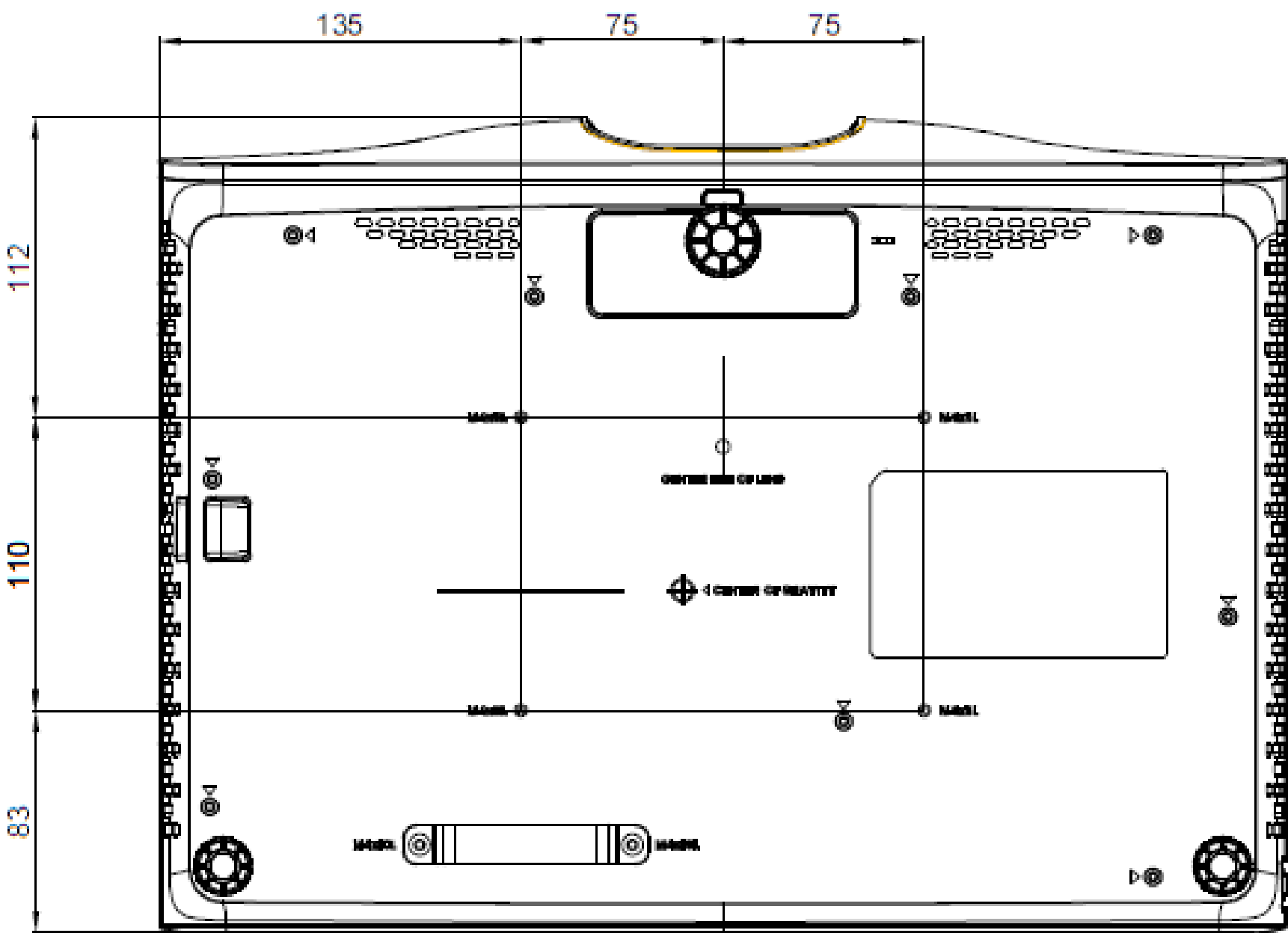
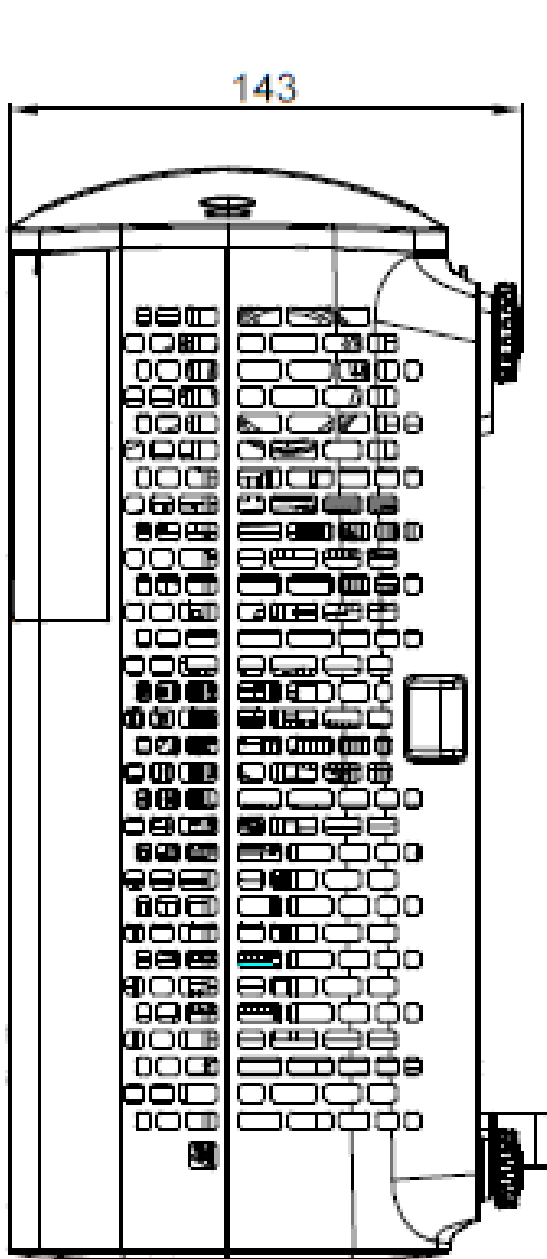
| Screen size |      |        |        | Distance from screen (mm) |         |             | *Vertical offset (A)<br>(Lowest/Highest lens position)<br>(mm) |
|-------------|------|--------|--------|---------------------------|---------|-------------|----------------------------------------------------------------|
| Diagonal    |      | H (mm) | W (mm) | Min length                | Average | Max length  |                                                                |
| Inch        | mm   |        |        | (max. zoom)               |         | (min. zoom) |                                                                |
| 30          | 762  | 374    | 664    | 744                       | 860     | 977         | 37                                                             |
| 40          | 1016 | 498    | 886    | 999                       | 1154    | 1309        | 50                                                             |
| 50          | 1270 | 623    | 1107   | 1253                      | 1447    | 1641        | 62                                                             |
| 60          | 1524 | 747    | 1328   | 1508                      | 1740    | 1973        | 75                                                             |
| 80          | 2032 | 996    | 1771   | 2017                      | 2327    | 2637        | 100                                                            |
| 95          | 2413 | 1183   | 2103   | 2399                      | 2767    | 3135        | 118                                                            |
| 100         | 2540 | 1245   | 2214   | 2526                      | 2914    | 3301        | 125                                                            |
| 110         | 2794 | 1370   | 2435   | 2781                      | 3207    | 3633        | 137                                                            |
| 120         | 3048 | 1494   | 2657   | 3035                      | 3500    | 3965        | 149                                                            |
| 130         | 3302 | 1619   | 2878   | 3290                      | 3794    | 4297        | 162                                                            |
| 140         | 3556 | 1743   | 3099   | 3545                      | 4087    | 4629        | 174                                                            |
| 150         | 3810 | 1868   | 3321   | 3799                      | 4380    | 4961        | 187                                                            |
| 160         | 4064 | 1992   | 3542   | 4054                      | 4674    | 5293        | 199                                                            |
| 170         | 4318 | 2117   | 3763   | 4308                      | 4967    | 5626        | 212                                                            |
| 180         | 4572 | 2241   | 3985   | 4563                      | 5260    | 5958        | 224                                                            |
| 190         | 4826 | 2366   | 4206   | 4817                      | 5554    | 6290        | 237                                                            |
| 200         | 5080 | 2491   | 4428   | 5072                      | 5847    | 6622        | 249                                                            |
| 250         | 6350 | 3113   | 5535   | 6345                      | 7314    | 8282        | 311                                                            |
| 300         | 7620 | 3736   | 6641   | 7618                      | 8780    | 9942        | 374                                                            |

• The screen aspect ratio is 16:9 and the projected picture is in a 16:9 aspect ratio



- \*The vertical offset value is the vertical distance from the bottom edge of the image (when the projector is mounted on a table, diagram on the left), or top edge of the image (when the projector is mounted, diagram on the right) to the centerline of lens.
- Due to the lens optical characteristics, every projector has its vertical offset ratio. The value normally gets larger while the projection distance increases.

Dimenaions/Ceiling/Wall mount installation diagram



Feature icons



Color Depth

| Display format (refresh rate) | Chroma subsampling | 8 Bit | 10 Bit |
|-------------------------------|--------------------|-------|--------|
| 4K/60p (60 Hz)                | 04:04:04           | V     | V      |
|                               | 04:02:02           | V     | V      |
|                               | 04:02:00           | V     | V      |
| 4K/60p (50 Hz)                | 04:04:04           | V     | V      |
|                               | 04:02:02           | V     | V      |
|                               | 04:02:00           | V     | V      |
| 4K/30p (30 Hz)                | 04:04:04           | V     | V      |
|                               | 04:02:02           | V     | V      |
|                               | 04:02:00           | V     | V      |
| 4K/24p (24 Hz)                | 04:04:04           | V     | V      |
|                               | 04:02:02           | V     | V      |
|                               | 04:02:00           | V     | V      |