\section*{| DIGITAL |
| :--- | :--- | :--- |
| PROJECTOR |$|$ TH20}



## Features

- Native XGA (1024×768) resolution
- 5,000 ANSI lumens
- 3,000:I high contrast ratio
- Vertical lens shift
- I.6x zoom
- Easy installation and control



## Input and Output Terminals



| (1) LAN (RJ45) | 8 s-Video in (Mini DIN 4pin) |
| :---: | :---: |
| (2) RS232 (DB-9pin) | (9) Audio L/R in (RCA) |
| (3) USB (Type Mini B) | (10) Audio in/out (Mini Jack) |
| (4) USB (Type A) | (1) Monitor out (D-sub 15pin) |
| (5) HDMI-2 | (12) Composite Video in (RCA) |
| 6 HDMI- $1 / \mathrm{MHL}$ | $(13) \mathrm{MIC}$ |
| 7 Computer in (D-sub 15pin) | (14) 12 V Trigger |


| Specifications |  |
| :---: | :---: |
| Projection System | DLP ${ }^{\circledR}$ |
| Native Resolution | XGA (1024 $\times 768$ ) |
| Brightness | 5,000 AL |
| Contrast Ratio | 5,000:1 |
| Display Color | 1.07 Billion Colors |
| Lens | $\mathrm{F}=2.45 \sim 3.07, \mathrm{f}=15.78 \sim 25.12$ |
| Aspect Ratio | Native 4:3 (5 aspect ratio selectable) |
| Throw Ratio | 1.41~2.25 |
| Image Size (Diagonal) | 60"~240" |
| Zoom Ratio | 1.6X |
| Lamp Type | 370W |
| Lamp (NormalEconomic Mode)* | 2000/2500 hours |
| Keystone Adjustment | 2D, Vertical \& Horizontal $\pm 30$ degrees |
| Projection Offset | 107.5\% $\pm 2.5 \%$ |
| Lens Shift | Vertical: +7.5\% |
| Resolution Support | VGA(640 $\times 480$ ) to UXGA(1600 $\times 1200$ ) |
| Horizontal Frequency | $15 \mathrm{~K} \sim 102 \mathrm{KHz}$ |
| Vertical Scan Rate | 24~120Hz |
| Compatibility | HDTV Compatibility: 480i, 480p, 576i, 576p, 720p, 1080i,1080p Video Compatibility: NTSC, PAL, SECAM |
| Interface | Computer in (D-sub 15pin) $\times 1$ (Share with component) <br> Monitor out (D-sub 15pin) $\times 1$ <br> Composite Video in (RCA) $\times 1$ <br> S-Video in (Mini DIN 4pin) $\times 1$ <br> HDMI $\times 2$ (One with MHL) <br> Audio in (Mini Jack) $\times 1$ <br> Audio LR in (RCA) $\times 1$ <br> Audio out (Mini Jack) $\times 1$ <br> Speaker $20 W$ <br> LAN (RJ45) $\times 1$ (LAN control) <br> USB (Type Mini-B) $\times 1$ (Download) <br> USB (Type A) $\times 1$ (5V/ 1.5A Power Supply) <br> RS232 (DB-9pin) $\times 1$ <br> DC 12V Trigger $\times 1$ <br> IR Receiver $\times 2$ |
| Dimensions (WxHxD) | $16.1^{\prime \prime} \times 4.6^{\prime \prime} \times 10.5^{\prime \prime} / 411.4 \times 118.4 \times 267.5 \mathrm{~mm}$ |
| Weight | 10.8 lbs / 4.9kgs |
| Power Supply | AC100 to $240 \mathrm{~V}, 50$ to 60 Hz |
| Power Consumption | Typical 490W, Network standby <6W, Stanby power <0.5W |
| Power Management Function | Automatic power off after 20 minutes without a display source. |
| Audible Noise | 36/33 dBA (Normal/Economic mode) |
| Languages | (28 Languages) |
| Picture Mode | Bright/Presentation/sRGB/Cinema/(3D)/User 1/User 2 |
| Accessories (Standard) | Remote Control w/ Battery, Power Cord, User Manual CD, Quick Start Guide, Warranty Card, VGA(D-sub 15pin) Cable |
| Accessories (Optional) | Spare Lamp Kit P/N: 5J.JDP05.001 <br> Ceiling Mount P/N: 5J.JAM10.001 <br> 3D Glasses P/N: 5J.J9H25.001 <br> QP01 P/N: 5J.JCK28.A01 |
| UPC / Part \# | 8400460-3265-4 / 9H.JDP77.15A |
| Limited Warranty | 3 Years Parts/Labor; 1 Year or 2,000 hours of lamp life |

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

## HRTMI <br> 次MHL

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