CRYSTAL 45 utilizes a reference version of the CRYSTAL 35 light engine with select optics plus enhanced processing electronics to achieve improved performance in terms of light output and contrast ratio. DLP® is the picture technology of choice for the CRYSTAL 45, a Full HD1080p (1920 x 1080 pixel resolution) chipset is used in its design, combining this with DynamicBlack™ contrast-enhancing technology. The CRYSTAL 45 is able to deliver crisp, clear images without the motion-blur associated with other picture technologies. SIM2 has utilized advanced lamp technology in the design of the CRYSTAL 45 to further optimize the image performance. The electronics used in this system control the UHP lamp by way of a two-pulse system: one bright pulse and one dark pulse. The dark pulse enhances contrast, while the bright pulse improves brightness. The resulting image fills the screen with vibrant colors, deep blacks and bright whites. The CRYSTAL 45 features a typically stylish ‘made-in-Italy’ design enriched by a luxurious glass-accented finish and a backlit graphic feature. Available in matte black or matte white with crystal-glass accents.

TYPICAL APPLICATIONS
Ideally suited to small/medium media rooms and family/game rooms with moderate ambient light.

DISPLAY
Technology: single-chip DMDs
Resolution: Full-HD - 1920 x 1080 pixels
Light source: 280W UHP lamp
SIM2 DynamicBlack™ Technology enhanced solution and BrilliantColor™ Technology
Contrast ratio (Full ON/OFF): >50,000:1 with DynamicBlack™
Brightness(1) up to 3,000 Ansi Lumens

INSTALLATION
Lens (throw ratio): 1.62-2.43:1
Manual Optical shift: Vertical
Picture size (inches diagonal): 30 - 280
Aspect ratio: 4:3, 16:9, Anamorphic, Letterbox, Panoramic, pixel-to-pixel, subtitle + 3 custom-user adjustments

ELECTRONICS AND CONNECTIVITY
Horiz. & Vertical scan freq.: 31-92 kHz/48-85 Hz, 24 Hz
(1080p only)
Color System: PAL (B,G,H,I,M,N,60); SECAM; NTSC 3.58; NTSC 4.43; PC graphic standards: VGA, SVGA, XGA,SXGA, UXGA, WUXGA; SDTV: 480i/p, 576i/p; HDTV: 720p 50/60, 1080i 50/60, 1080p 24/50/60 + 576p

INPUTS/OUTPUTS
2x HDMI (v1.4 with Deep Color)
1x Composite Video (RCA)
1x S-Video (MinDIN 4 pin)
1x (shared) Graphic RGBHV (D-sub HD15 pins)
1x Component - YCbCr/RGBs (RCA)
1x RS-232 (D-sub 9 pins)
1x USB (B type)
1x 12V 100mA output

GENERAL SPECIFICATIONS
Software control: upgradable via RS-232 serial interface or USB
Power supply: 100-240 VAC +/- 10% (48/62 Hz)
Power consumption: 430W
Projector weight: 12 kg. / 26.5 lb
Projector dimensions (WxHxD): 364x167x450 mm
(14.3”x6.6”x17.7”) (14.3”x6.6”x17.7”)
Projector shipping weight: 16 kg. / 35.3 lbs
Projector packaging dimensions (WxHxD): 540x310x480 mm
(21.7”x12.2”x18.9”)

ACCESSORIES
Installation and user manual, AC power cords (2m-6.6 ft); 2x backlit remote control and batteries RS-232 adapter cable

CABINET COLOR OPTIONS
- Matte Black with crystal accents (BG)
- Matte White with crystal accents (WG)

(1) ANSI Lumens specification: This is the typical projector brightness specification found in most sales literature. This measurement allows for direct comparison with other manufacturer’s projectors. Measurements are taken in a totally dark test room with brand new lamp at full power, lamp’s native white color temperature, internal test pattern (full white) and in compliance with ANSI IT7.228-1997 specification.

ORDERING CODE(2)
CRYSTAL 45 WHITE
CRYSTAL 45 BLACK

(2)Ordering code = pj model + cabinet color
CRYSTAL 45
Technical Specifications

www.sim2.com/home/us/content/crystal-45

OPTIONAL ACCESSORIES

FLEX Anamorphic system(1)
Ordering code:
Motorized CRYSTAL FLEX System

CRYSTAL Ceiling/Wall bracket
Ordering code: CBRKT-K

(1) FLEX system include an integrated ceiling bracket for projector, lens and motorized sled.
Please verify throw ratio and projector distance when ordering.

CHOICE OF DIFFERENT LENS OPTIONS FOR FLEXIBILITY IN INSTALLATIONS

<table>
<thead>
<tr>
<th>Diagonal screen size (16:9 aspect ratio)</th>
<th>LENS (1.62-2.43:1)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>min.</td>
</tr>
<tr>
<td>80&quot;</td>
<td>2.9 m / 9' 6&quot;</td>
</tr>
<tr>
<td>100&quot;</td>
<td>3.6 m / 11' 10&quot;</td>
</tr>
<tr>
<td>120&quot;</td>
<td>4.4 m / 14' 5&quot;</td>
</tr>
<tr>
<td>150&quot;</td>
<td>5.4 m / 17' 9&quot;</td>
</tr>
<tr>
<td>180&quot;</td>
<td>6.5 m / 21' 4&quot;</td>
</tr>
<tr>
<td>200&quot;</td>
<td>7.2 m / 23' 7&quot;</td>
</tr>
</tbody>
</table>

Throw distance: It is recommended not to use the minimum or maximum projector throw ratios for your installation. Accurate positioning of the projector is better achieved by avoiding these two extremes. Due to constant product development, the calculated projection distance and value may have a margin of error. Please check with your SIM2 representative prior to placing the order.

PROJECTOR'S DIMENSIONS - MEASURES = MM

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