



# HD20

The HD20 home cinema projector delivers the kind of picture quality associated with the best digital cinema performance around the world. With a digital HDMI signal you can create a true digital projection system that produces a spectacular Full HD cinematic experience in your own home. A masterly collaboration of Full HD DLP® technology from Texas Instruments and Optoma craftsmanship produces a stunningly bright image with perfectly balanced vivid color, crystal clarity and the exceptional light and shade detail only possible with a high ANSI contrast projector.

## ANSI Contrast

ANSI Contrast<sup>†</sup> is a way of measuring the true “real world” contrast performance you can expect from a projector in your own home. This measurement technique includes a reproducible procedure that can be used to compare the performance of projectors using different display technologies. With an ANSI contrast ratio significantly higher than many LCD based projectors, the HD20 is the only choice for Home Cinema purists that expect ultimate image fidelity in their home.



High ANSI Contrast



Low ANSI Contrast

Don't be misled by contrast ratio specs – a projector with a contrast ratio specification of, for example, 10,000:1 may well have an ANSI contrast ratio specification significantly lower than the HD20. Contrast ratio specifications are typically measured using a “Full On, Full Off” technique. This involves measuring the projector performance when displaying a pure black screen and then a pure white screen. Many believe that “Full On, Full Off” contrast measurements may not depict “real world” performance and may not offer the relevant information needed to determine how a projector will look when you are watching movies in your home. If you want to compare projector contrast specifications look for the ANSI contrast specification.

## 24P

Most movies are shot at 24 frames per second. To preserve the purity of the original image the HD20 can accept High Definition sources at 24 frames per second and so to display movies exactly as the director intended.



## Optoma guarantees color quality will remain as new for 5 years\*

For Home Cinema color accuracy is critical. We are so confident that, unlike competing technologies, the HD20 color will not change in use that we have guaranteed it will stay the same as the day you bought it, for at least 5 years.



The HD20 projector based on an all-digital DLP® chip delivers stunning picture quality again and again. Unlike competing analogue technologies, the semiconductor that makes DLP® projection possible is virtually immune to environmental factors that can cause an image to degrade over time.

Projection Distance (m)	Max 16X9 Diagonal Screen Size (inch)	Max Diagonal Image Size (inch)
2.0	60.2	50.2
3.0	90.3	75.3
4.0	120.5	100.4
5.0	150.6	125.5
10.0	301.1	251.0

HD20 Specifications Highlights	
Full HD	Native 1080P (1920x1080)
ANSI Contrast	500:1 ANSI
Contrast Ratio	4000:1 (With Image AI)
Uniformity	85 %
Brightness	1700 Video Optimised Lumens
Projection Image Size / Distance	38 to 300 inches / 1.5m~9.96m
Throw Ratio	1.5~1.8 :1 (distance/width)
Keystone Correction	Vertical ±5°
Aspect Ratio	16:9, 4:3, LBX, Native
Inputs	2xHDMI, Component, VGA (PC\SCART) Composite
Output	12V OUT for screen triggering
Video Compatibility	1080p, 1080i, 720p, PAL, NTSC, SECAM
Audible Noise	29dB Standard Mode
Lamp Type	230-watt User Replaceable lamp
Lamp Life	4000 hrs in normal mode/3000 hrs in bright mode
Dimensions	324x234x97 mm
Weight	2.9kg
Warranty	Warranty may vary by country. Please see or ask your local supplier for details.

16X9 Diagonal Screen Size (inch)	Max Projection Distance (m)	Min Projection Distance (m)
60	2.39	1.99
80	3.19	2.66
90	3.60	3.00
100	4.00	3.30
120	4.80	4.00

<sup>†</sup> “ANSI Contrast” is a recognised contrast measurement technique as described in the standard IEC 61947-1

\*Optoma guarantees that in normal use, Optoma DLP® color quality will be indistinguishable from when new. Please note that worn lamps will give slight variance. Exclusions: \*(1) Guarantee is voided if the projector is subject to damage through mis-use. (2) Guarantee may be void in industrial or commercial entertainment environments where dust or smoke is particularly excessive 3) Guarantee will not apply if lamp brightness is below 50% due to wear or if the projector is not working due to other fault.

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