3D

CineVERSUM

V1.0

BLACKWING MK2015 SERIES

4K VIDEO-PROJECTORS FOR 2D AND 3D HOME-CINEMA

| Contents

Page 3: Cineversum Home Cinema Concept

Page 5: Superior Performance

Page 7: Real Cinema at Home

Page 9: An Immersive Feeling with 3D

Page 11: The Movie Library

Page 13: Custom Integration

Page 15: Projection Screens

Page 17: Cineversum Network

Page 18: Technical Specifications

BLACK WING 3D

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Cineversum Home Cinema Concept

| Designed in France

For the past 25 years, Cineversum has been synonymous of high-quality video products. Adapting the most advanced and sophisticated technologies of the professional cinema industry to exclusive home users.

More than a brand, Cineversum is now a concept. Put simply, Cineversum is Home Cinema *par Excellence*.

Harmony between form and function, the ideal between minimalism, futurism and refinement and the use of pure materials such as aluminium and steel reflect Cineversum's dedication to absolute product integrity.

In our quest for the perfect design, we turned to our nearby environment for inspiration.

The "Phantom" limited edition: perfect for dark rooms

The perfect symmetry of a merry-go-round. The gracious curve of the Montmartre Sacré-Coeur. The stark silhouette of the Louvre Pyramid. Inspired by these Parisian landmarks, the Cineversum range was born.

In the flawless representation of each tiny detail and the life-like reproduction of colour we found our ultimate goal: perfection in home cinema.

French designer Antoine Béon wanted the Blackwing line to celebrate the idea of speed and precision with this unforgettable futuristic shape.

Hence the name, BlackWing. With its subtle shapes and purity of form, the Cineversum BlackWing definitely brings you the timelessness and elegance of our City of Lights, Paris.

| Luxurious Material

The cabinet made in ABS-PC, a material also used in the car industry, is a valour in itself. Beyond its extreme resistance to shocks, it also absorbs heat and noise, reducing the working noise level of BlackWing to 19 dB. Last touch, the car paint gives the Blackwing mk2015 Series a luxurious and elegant finish.

All the accessories, such as the bespoke Ceiling Mounting Kit and Cine-Twist anamorphic Kit, are made with premium components and the most robust materials.

France is not only the homeland of luxurious jewelry, tasty wine and Parisian gastronomy. On top of a wide array of industrial strengths - amply demonstrated by high-speed trains TGV, Formula One racing cars, the Parrot drones, the Ariane rocket and Airbus superjumbos - France is at the cutting edge of technological research and innovation.

The Cineversum technicians and dealers have been involved in the Home Cinema industry from its very beginning. Their long experience with the most sophisticated CRT installations, might it be for home cinema or for professional applications is a major asset when it comes to chosing and integrating the newest technologies.

The Cineversum engineers have tested, selected and designed the finest technologies available in the industry, that will turn your home cinema room into a real little cinema.

The BlackWing can be painted in on-demand colors

Photo by courtesy of Bang & Olufsen Tehran, Iran
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Superior Performance

|Cinema-like Performance

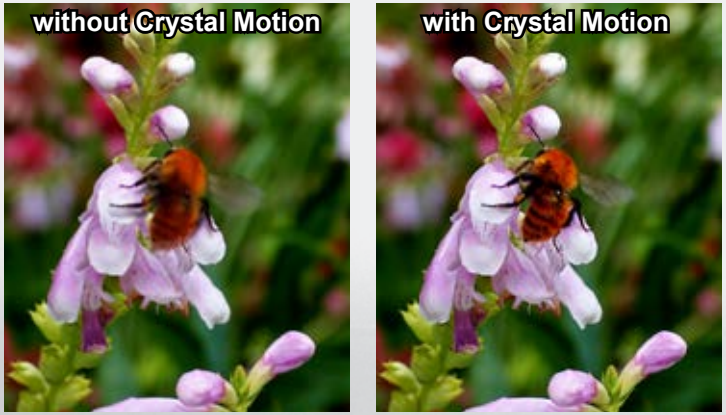
The association of the full-glass *Pro Grade Lens* with a superior 3 chips L-COS 4K-ready engine (up to 150,000:1 native contrast ratio on the BW3) gives the best out of any picture. The new Dynamic Contrast feature can multiply the contrast by 10. The internal video-processor enhances the input signal quality and removes video noise.

The BlackWing projectors comes with 6 preset *Picture Modes (4 on BW1)*. Personal settings can be stored onto one of these 6 pre-configured profiles or the 4 blank user profiles.

On models Two and Three Cineversum added a THX mode, optimized for movie watching in a dedicated dark cinema room. Thanks to the new 7-axis HSL calibration, it has never been so easy to obtain a perfect picture.

An Expert Calibration Menu (via RS232) and CMS functions (Color Management System for color calibration) are accessible for the advanced Cineversum installers.

The improved *400 Hz Crystal Motion* mode allows more flexibility by featuring two levels of interpolation and inverse telecine computation. You can enjoy live events (sports, concerts, theatre) and TV shows with a true-to-life projection.



Thanks to the new *True Cinema Black III* process of the BlackWing Series, dark scenes still remain very detailed and balanced, despite the amazing level of contrast.

The BlackWing projectors are fully controlable. Through the supplied infra-red remote control, through the back panel or from any automation system compatible with either RS232 or LAN (RJ45 ethernet).

|Extreme Attention to Details

Every single unit is carefully checked and pre-calibrated individually. Each projector is tuned for a top performance in 2D and in 3D and is operationally life tested in the Cineversum laboratory. Its unique characteristics are kept in a Manufacturing Identification File.

The finest measurement equipement is used during both the manufacturing and calibration/alignment process in the laboratory, in order to achieve the best possible projected picture out-of-the box and a long-term trouble-free operation.

But eventually, there is no robot that we trust more than the human being, and his delicate sensitiveness.

As Frederic Laurenti - chief calibrator for more than 20 years - said: «in the end of the production process, I always submit the projector to the most accurate testing, the ultimate judge, something that no instrument or computer could challenge, my human eye...»

Calibrating a Blackwing projector

@cineversum

Photo by courtesy of Frankston HiFi, Australia
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Real Cinema at Home

| *Cine-Twist*, the real cinema experience at home

The optional *Cine-Twist* Kit is compatible with the BlackWing mk2014 series and the Cineversum *Theatre* Screens.

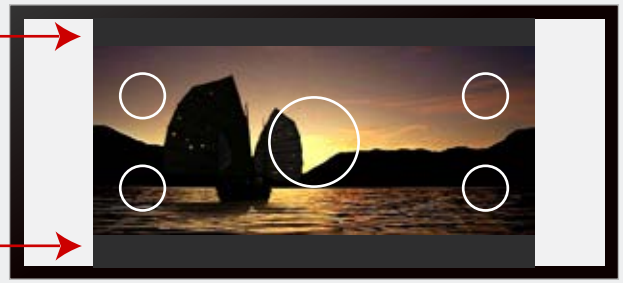
a movie on a 16:9 screen

Same movie on a 2.35 cinemascope screen

Thanks to this proprietary accessory, you will be able to watch movies in their genuine cinemascope format on a real cinemascope screen (2.35:1).
This recreates the ambiance and immersive experience of commercial theatres inside your home cinema.The benefits over a 16:9 projection are the use of all the pixels of the matrix (saving the 33% of resolution usually wasted in the black bars) and increase in brightness (+25%) allowing the use of bigger screens.
If you want to watch a classic 16:9 program, such as sports or TV shows, the *Cine-Twist* kit will pull the anamorphic lens off the projector.

| *Cine-Twist*, the real cinema experience at home

①



Black bars are displayed by inactive pixels when watching a movie using a 16:9 format screen. They imply a consequent loss of the available resolution.

②

To fully use the projector resolution, the active frame is stretched vertically. Doing so, makes every pixel active and the brightness level is greatly enhanced.

In THEATRE Mode, the Anamorphic Lens is moved in front of the projector beam, just like in commercial theatres, in order to magnify the aspect ratio of the picture back to the original 2.35:1 movie format.
The obtained picture is extremely detailed and being projected into a wider format, it allows the use of bigger screens.

③

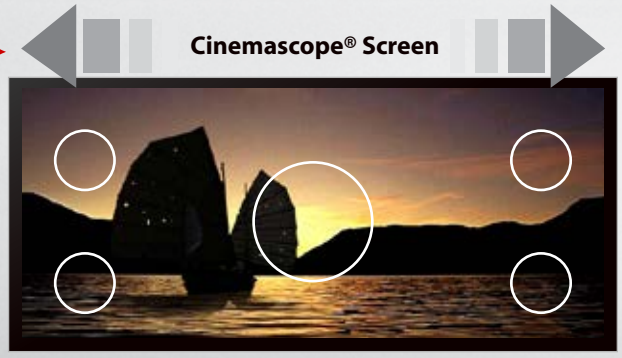


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Photo by courtesy of AFM Domotics, Italy
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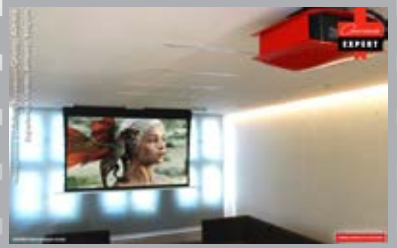
An immersive feeling with 3D



| About good 3D

For the past four years, Cineversum has been at the spearhead of 3D technology. We believe that watching 3D makes more sense in the comfort of a home cinema than in a commercial cinema. The spectator has to let himself be immersed in the image, which is hard to do with three hundred noisy neighbours.

This is the reason why 3D is often despised nowadays. Now, Cineversum wants to bring 3D back to its former glory.

Watching 3D content on a flat-panel TV is like looking through the window of a doll-house. It can be very funny for a while, but it's absolutely not immersive. Indeed, 3D - and home cinema in general - has to be played big. The Blackwing projectors excel at that, in as much as they can combine high 3D performance and sufficient power.

New RF 3D glasses and plug-in RF 3D dongle

| Cineversum is a pioneer of 3D video-projection

Year after year, Cineversum has proved as an expert of 3D projection at home.

Cineversum is the only brand proposing two kinds of 3D solutions: the "regular" Radio Active 3D pack (more convenient and better image quality than IR) and the Passive 3D pack.

Indeed, Cineversum has extended its range of video-projectors with an amazing Passive 3D solution. This evolution toward Passive 3D was natural for the demanding engineers of Cineversum, insofar as it is the most comfortable solution for the spectators, thanks to the adoption of lightweight, cost-effective, heavy-duty glasses. But Cineversum has pushed the usual limits of passive 3D technology further.

Until today, unless for the customers with an extravagant budget, Passive 3D at home has always been synonymous with poor quality: wrong colours, very low contrast, many artifacts.

The Cineversum Passive 3D solution can be called unique, in as much as it fully uses the natural qualities of the Blackwing projectors, the qualities that are needed in a Home Cinema context: the picture is always sharp and neat, the blacks are detailed, the colours are rich but natural, the contrast ratio reaches levels that were never reached before in stereoscopic 3D.

Thanks to the new Passive system, 3D projection is now 50% brighter than with the regular Cineversum active 3D kit, which can prove very useful for wide-screen home cinemas or museum applications.

For the first time ever, it is now possible to obtain an optimal 3D viewing experience with one sole projector, something very valuable from a financial point of view.

Adjusting the Passive 3D polarizer

Photo by courtesy of Ong Radio, Singapore

The Movie Library

|The Master, a powerful all-in-one multimedia server

Have you ever dreamt of removing all these shelves buried under CD and DVD cases from your living-room? Basically, that's what the Master does. And in fact, it does a lot more.

Put simply, this server is the ideal solutions for people who want to replace a big disk physical collection with a single and relatively small box. Practically, it works a very simple way and does not require a ton of cables, the Master being in itself a storage device, a network server and a video player, all in the same time.

As a result, the Master server is ideal for a home-cinema room. However, it is not limited to only one room. Very easily, the system can be expanded with additional Players in each room where the customer wants to play his music or his movies which have been stored on the Master.

|A user-friendly interface

Very simply, the user can navigate his movie database on his TV or projection screen through a sleek and neat interface. The server library contains all his DVDs and Blu-Ray discs that have been copied onto it.

When selecting a video, a new page displaying all the information and artwork regarding this video will appear: cover, synopsis, directors, casting, languages, year, format etc. At this point, the user can either start playing the video or go back to the library.

Even better, thanks to the application for tablets and smartphones (iPad, iPhone and Android devices) the client can explore his movie library, filter it by title, genre, year of release and so on, or just do a manual research, all this in a very natural and intuitive way.

|Stand-alone device or multiroom installation

The Master can be the sole element of the system, that is to say that there is no additional Player. The display (TV or projector) and audio device are connected directly to the Master. Of course, an internet connection is required for the automatic scraping.

Or you can connect an infinity of Players to the Master via the 1Gb local network (Ethernet) but, small constraint, the Master can provide flawless HD video streams "only" to a maximum of 12 Players in the same time. The entire music and movie library is centralized in a single place, the Master, with a strong data protection thanks to the integrated RAID 5, making the management and the distribution of the library a child's play. This is what the professionals call "Multiroom".

Photo by courtesy of Synergy Technologies, Pakistan

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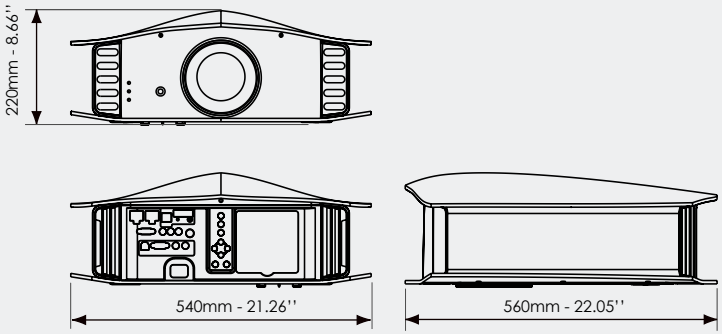
Custom Integration

| Installation Versatility

The fully motorized Pro Grade Lens (zoom, shift and focus) of the Blackwing will make the installation job extremely easy. The 2x zoom (1.4-2.8:1 throw ratio) should be compatible with any kind of room.

The vertical and horizontal lens shift capability can address most challenging configurations. In the worst case, with the keystone correction, it is a child's play to adjust the projector for the most razor-sharp picture.



| Projector Lift

It is sometimes necessary, in a living room or a bedroom for example, to hide the projector away when it's not in use.

Cineversum has designed a motorized lift that goes between the ceiling and the false ceiling, where the lift, the projector and the cables will be removed from sight, thus granting the best aesthetic and practical solution.

Tailor-made for the Blackwing and its dedicated options, such as the Cine-Twist anamorphic kit or the famous Passive 3D Kit, this lift can also accomodate most large and heavy video projectors up to 25 Kg of weight.

The two different models are supplied with an extremely silent motor that allows a descent from a minimum of 14,5 cm (or 23 cm) to a maximum of 96 cm (or 196 cm).

Moreover, it is supplied with some extendable side brackets in order to allow an easy fixing of the panel of your false ceiling by adjustable threaded bars. The panel can be mounted under the projector, even if the projector is larger than the lift itself.

Another interesting element of this lift is a flexible cables duct with a raceway where to put the cables connected to the projector, so they will be hidden and tidy gathered when the projector lift is going up.

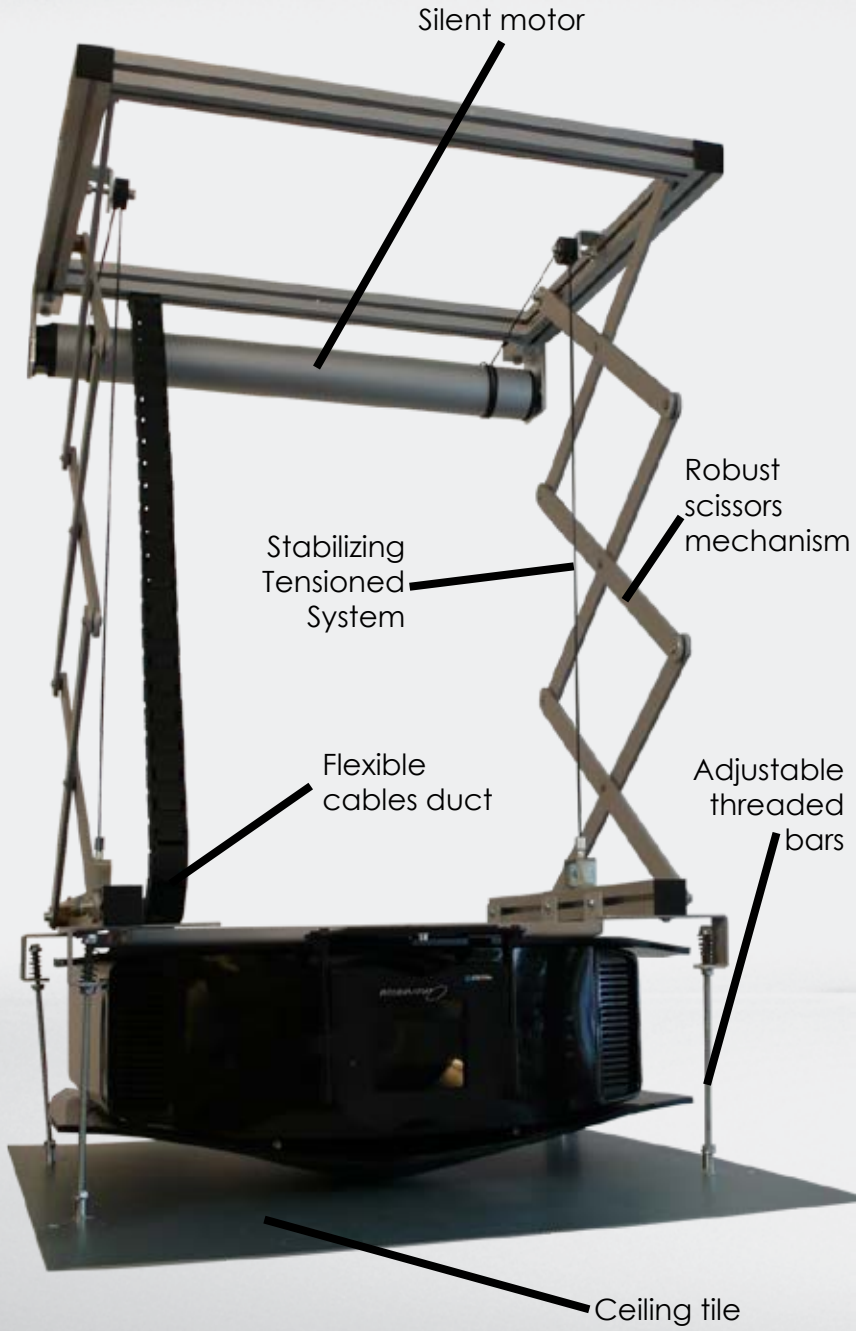


Photo by courtesy of Ong Radio, Singapore
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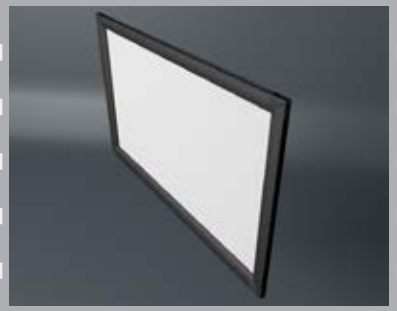
Projection Screens



|The Screen is a key element of a Home Theatre

There is no good projection experience without a perfectly selected projection screen. A wrong choice of screen can indeed ruin all your efforts and investments with the projection system.

Made in Europe, with aesthetic design, the Cineversum Screens are the perfect companion for the Cineversum projectors. All the materials which e use are quality-controlled for a comfortable use and a long-lasting existence.

Cineversum proposes a rich line of models to suit your needs. The classical frame screen which recreates the atmosphere of a commercial theatre, the retractable motorized screen which will remain discrete in your interior and the multi-formats screens for an optimal adequation between your screen and your displayed picture.

|Cineversum Frame Screen

• The classical on-wall fixed screen

• Elegant velvet-covered aluminium frame (absorbs overscan and increase the perceived contrast ratio)

• Easy to mount and perfect for dedicated home cinema rooms

• Available in various picture formats (4:3, 16:9 and cinemascope) and various sizes

• Various kinds of screen materials available (including acousticaly transparent)

|Cineversum Motorized Screen

• The discreet screen *par excellence* which can hide away in a classy white case or into the ceiling when not in use

• Perfect for living-rooms, bedrooms and multi-media rooms

• Can be remote controlled

• Available in 16:9 picture format with optional tab-tensioning cables for a curl-free performance

• Various sizes and screen materials available

|Cineversum Theatre Screen

• The ideal companion of the Cineversum Cine-Twist kit

• Native 2.35:1 aspect ratio

• Optional electric side maskings to convert the screen from one aspect ratio to another

• The black borders increase the eye-perception of contrast and sharpness

Cineversum offers a wide choice of screen material:

The "Classique" neutral gain white cloth, the Grey high-contrast cloth, the Micro-Perforated accousticaly transparent clotj, the rear-projection cloth and the "5D" and "Super 5D" polarized passive 3D-compatible clothes.

Every home cinema room is unique, due to ambiant light conditions, screen size, throwing distance, projector model. But we have the screen for you and our Cineversum Authorized Dealers and Installers can help you make the best choice.

Photo by courtesy of Aletech (Groep Alelek), Benelux
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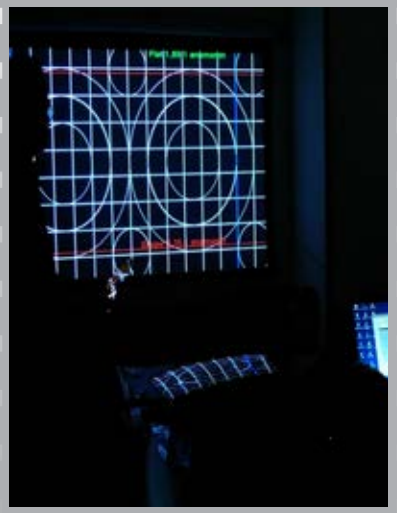
Cineversum Network



| A dedicated Cineversum Network

The Cineversum projectors are turn-key products. Nevertheless, in order to achieve the best possible performance and configuration, a precise installation and calibration by an experienced dealer or installer is recommended.
Cineversum only supplies its projection and video equipment through a limited network of carefully selected and highly skilled dealers all over the world.

These «Cineversum Authorized Dealers/Installers» are trained to calibrate all the video components within the complete Home Cinema installation to give you a true video reference result that only a Cineversum projector is capable of delivering.

Dealers or custom installers carrying the Cineversum authorized labels have proven their capability and experience over a long partnership with Cineversum.

This statement is the guarantee that your video-projector, projection screen, audio equipment, connectic and control-room systems will be perfectly professionally installed and optimally tuned. A tailor-made approach that will respect your budget and interior design.

Cineversum rules the Universum ! In Rio, Shanghai, Tokyo, Milan, Lahore, London, Los Angeles, Antwerp, Sydney, Geneva, Cape Town, Singapore, Tehran, Madrid, Lisbon, New York or Moscow, there are Cineversum show-rooms and partners all around the World.

Check www.cineversum.com to find out yours or contact us at info@cineversum.com.

Model Version		BlackWing One	BlackWing Two	BlackWing Three
P/N for the Active 3D Packs		R9201501 (RF) / R9201500 ("Essential" IR)	R9201502	R9201503
P/N for the Passive 3D Packs		R9201504	R9201405	R9201406
Display Resolution		3840 x 2160 (4K Resolution)		
Panel Technology		3-chip LCOS 0.7 inch panel		
Optic type and Throw Ratio		Full-glass Motorized (zoom & focus) 1.4 - 2.8:1 (2x zoom)		
Lens Slide Cover		NO	YES	
Screen Size (16:9)		60" - 240" diagonal		
Screen Offset		Motorized Optical Shift : +/- 80% vertically +/- 34% horizontally		
Lens Memories		5	10	
Lamp Consumption & Brightness		230 W Bulb - up to 4 000 hours (with lamp set to Low mode) (P/N R8760004) - 1 300 ansi lumens		
Adjustable Lens Aperture		Auto 1, Auto 2, Manual 16 steps		
Native Contrast Ratio		60 000:1	120 000:1	150 000:1
Dynamic Contrast Ratio		600 000:1	1 200 000:1	1 500 000:1
Noise Level		Less than 19 dB (Practically not perceptible)		
Inputs		2x HDMI		
Expert Calibration Menu		NO	YES (for calibration expert only)	
Picture Modes		4 Presets + 4 User Modes	6 Presets + THX + 4 User Modes + 4 for Installation Expert only	
Color Space Profiles		10 Presets + 5 Users	20 Presets + 5 Users	
Professional / Home-cinema Video Processing		400Hz Crystal Motion® True Cinema Black III ® (new Clear Black algorithm) 4K Interpolation (3840 x 2160)		
Screen Adjustment		106 Modes		
3D Method		Active Packs or Passive Packs		
3D Compatibility		Frame Packing, Side-by-Side, Top & Bottom (including 720p/1080p24 Side by Side)		
CMS Functions		YES (7-Axis)		
1/16 Pixel & Zone Colour Alignment		YES		
Power Voltage and Consumption		AC 110~240V 50/60Hz 360 W / 4.8 W in stand-by / 0.4W in Eco-Mode stand-by		
Home Automation Control		RS-232 (Dsub 9) / LAN RJ45		
Dimensions (LxWxH) and Weight		560 x 540 x 220 mm (22.05x 21.26 x 8.66 inches) 15.8 kg (34.8 lbs)	560 x 540 x 220 mm (22.05x 21.26 x 8.66 inches) 16.6 kg (36.6 lbs)	
Box dimensions		61x58x41 cm - 21 kg (67x66x52 cm – 23 kg when shipped individually)		
OPTIONS	3D Glasses	InfraRed Active Shutter Glasses (P/N R1048219) / Radio-Frequency Active Shutter Glasses (P/N R1048223) / Passive Glasses (P/N R1048211)		
	Ceiling Mount Kit	Fixed P/N R9852068 - Motorized 1 meter Lift P/N M9201400 - Motorized 2 Meters Lift P/N M9201404		
	Cinemascope Kit	Cine-Twist Kit (P/N T9006000)		