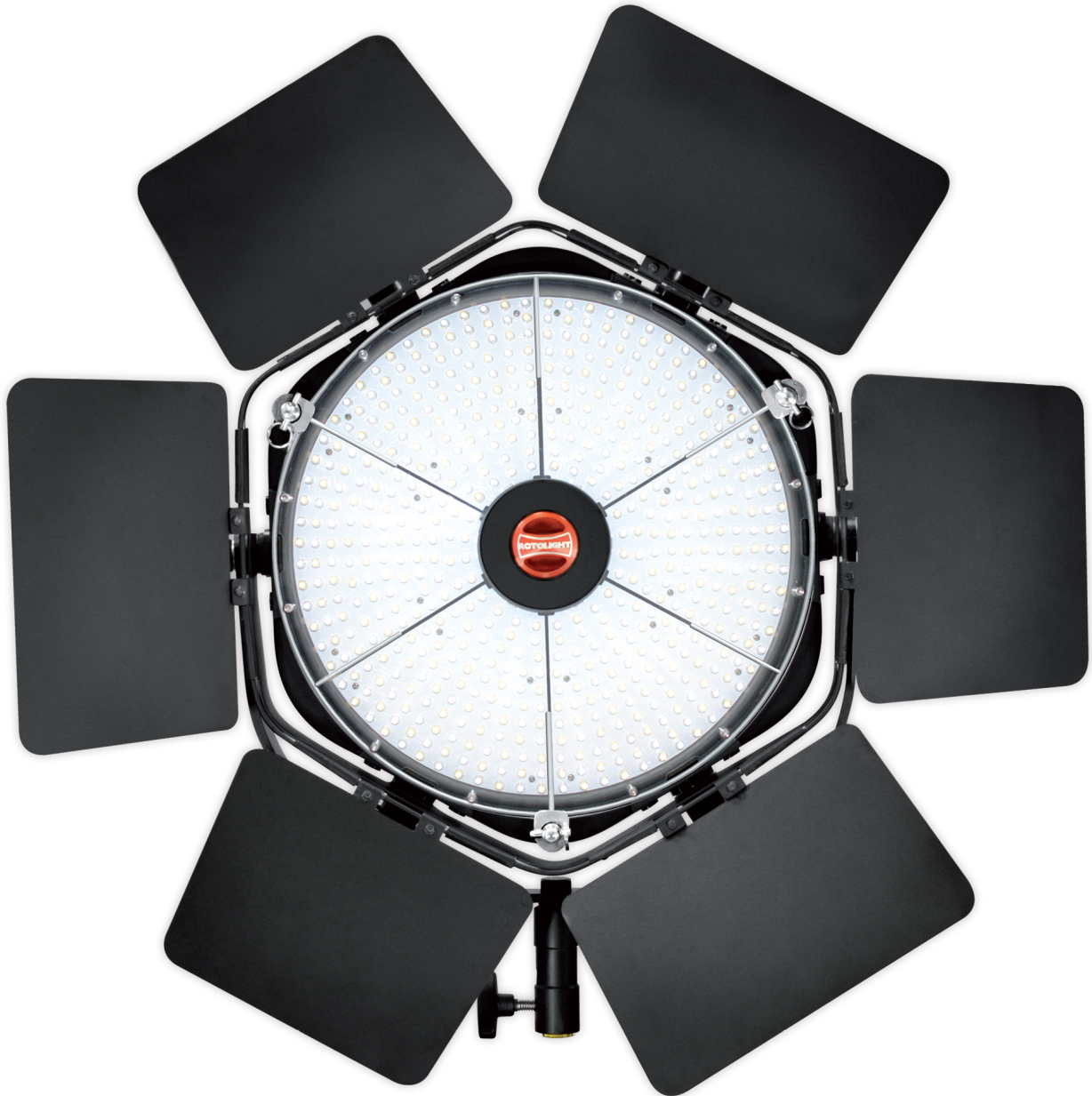




ROTOLIGHT ANOVA USER GUIDE

ANOVA BI-COLOUR V2 - SOLO 5600K



www.rotolight.com

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“We are what we repeatedly do. Excellence, then, is not an act, but a habit.”

- Aristotle



DOWNLOAD THE ROTOLIGHT MAGIC EYE APP FOR WIRELESS ANOVA CONTROL NOW!



iPhone



Please scan the QR Code or type the URL into your browser.

<http://itunes.apple.com/gb/app/magic-eye/id508524206?mt=8>

iPad



Please scan the QR Code or type the URL into your browser.

<http://itunes.apple.com/GB/app/id541870208?mt=8>

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Magic Eye App is available for iPad 2 +later and iPhone 3GS, 4 and 4GS +later plus iOS7 or superior. The application is sold separately.

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1 About Anova

Thank you for purchasing Rotolight ANOVA, the world's most advanced LED Floodlight.

The Multi-Award Winning Rotolight ANOVA made at Pinewood Studios - UK, will change the way you work with light forever. The revolutionary ANOVA V2 range of 'totally flicker free' LED EcoFlood lights now deliver up to 3.9Kw* (tungsten bulb equivalent) output whilst using 96% less energy than a standard tungsten bulb. Now up to 350% brighter, the Anova V2 range features the latest 'game-changing' LED technology that gives 'Best in class' colour rendering with overall CRI > 95 and Skin tone > 98, available in either 'ULTRAWIDE' 110° beam angle for beautiful soft lighting, or 'STANDARD' 50° beam angle for greater straight line output and punch.

ANOVA is the first truly continuous professional LED lighting source. Tested with both Phantom Flex and iMovix high-speed cameras at up to 6000fps. The ANOVA uses a totally unique, current controlled (i.e. DC - always on!) flicker-free lighting control method that can be used with all high-speed video cameras and photographic exposure settings. The ANOVA can be easily integrated with Tungsten Lighting without the strobing problems normally associated with LED lights that use PWM for dimming.

Rotolight have developed the AlphaNova series of Professional LED Ringlights to utilise a new WiFi technology, which allows iPhone or iPad to control the light's brightness and colour temperature, using Rotolight's Magic Eye™ (Patent Pending) application. For the first time this unique technology allows the AlphaNova lights to 'see' and measure colour and brightness. (Magic Eye is available from the iTunes App Store).

We call ANOVA an 'EcoFlood' as it only uses up to 41 watts of energy at full output (to deliver up to 3.9Kw watts at 5600k*), so you can expect excellent extended battery operation.

ANOVA is equipped with a standard V-Lock broadcast battery connector plate which also supports Anton Bauer gold mount batteries (using the optional Anton Bauer QR200A plate adapter). You can run ANOVA from a D-Tap port on a broadcast battery (to the 15V DC Input) or via the supplied universal AC to DC Power Adapter (100- 240v to 15V DC 60W). The ANOVA has been specially designed to be fully serviceable thanks to its modular component design.

Please take care of your ANOVA, and it will provide you with many years of excellent service.

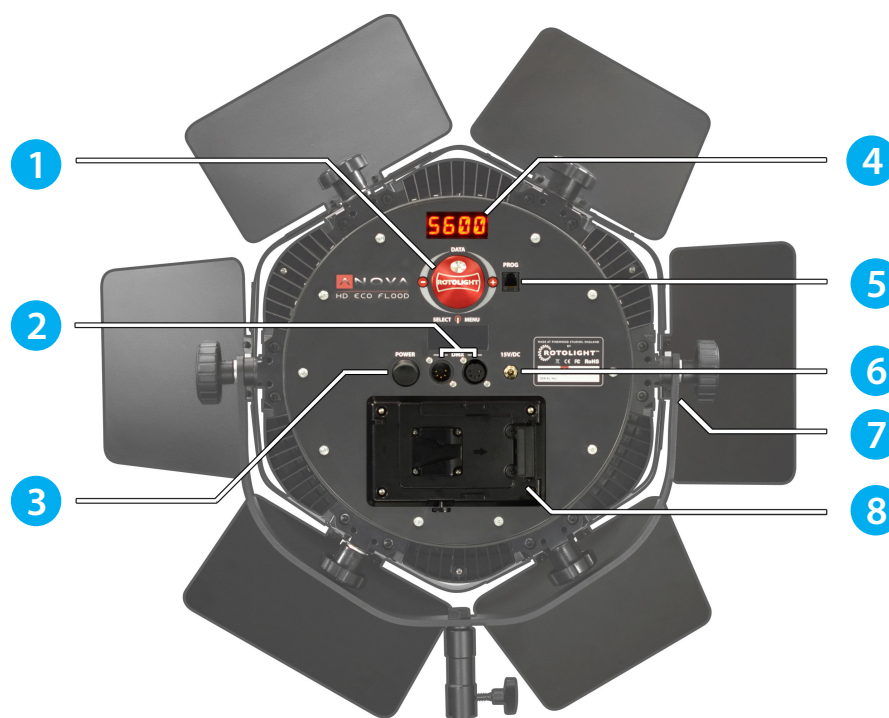
*Based on Calculation by the 'Lumen Coalition' of leading Lighting manufacturers and Government bodies, where the agreed tungsten standard is 1 watt produces 16 lumens in 360° beam angle.

2 What's in the Box

Your Anova kit includes the following:

- ANOVA Led EcoFlood**
- ANOVA Support Yoke**
- ANOVA Gel Frame Holder and 3 Ball Lock Pins**
- ANOVA Filter Sleeve Pack**
- ANOVA Colour Calibration Card**
- 15Volt 60 watt universal AC to DC converter & DC extension Cable**
- User Manual & Quality Control card**
- One Pair of XTRA-Strap cable ties**

3 Hardware Notes



- 1 Encoder Switch**
 Rotate to Increase (+) or Decrease (-) displayed value. Click to select. Press, hold and rotate for 'Fast' data entry. *NB: To reset the device to the Factory Default Values, Power up the ANOVA whilst holding down the encoder switch, it will display 'D I S T' (Distributor), and you select either yes or no to reset the unit.*
- 2 DMX In/Out**
 Connect to 3rd party devices or lighting console using standard 5 pin DMX wired XLR cable. *NB: To prevent accidental damage disconnect DMX Consoles or Controller before selecting 'DMX Master Mode' on the ANOVA.*
- 3 Power Switch**
 Select DC for an attached DC Input, Off, or Battery for the V-Lock Plate. *NB: you can use standard V-Lock Batteries or Anton Bauer Goldmount Batteries with a QR-A200 plate adapter*
- 4 Display**
 This displays the Menu Item or selected value.
- 5 Programming Socket**
 Firmware programming socket. This is not intended for use by users, and is used to install firmware updates by the manufacturer.
- 6 DC Input Socket**
 Use this 2.1mm DC socket to connect the supplied 15volt 60W AC/DC converter. You can also run ANOVA from a 14.4volt D-Tap connector via this socket. Only use the

recommended AC/DC adapter. Never exceed the recommended Voltage (13-17 volts DC). Make sure you use the 'XTRA Strap' cable ties to secure the Power connector / adapter to your light stand, so there is no strain on the 2.1mm DC Socket, otherwise damage may occur to the socket.

7 Utility Blocks

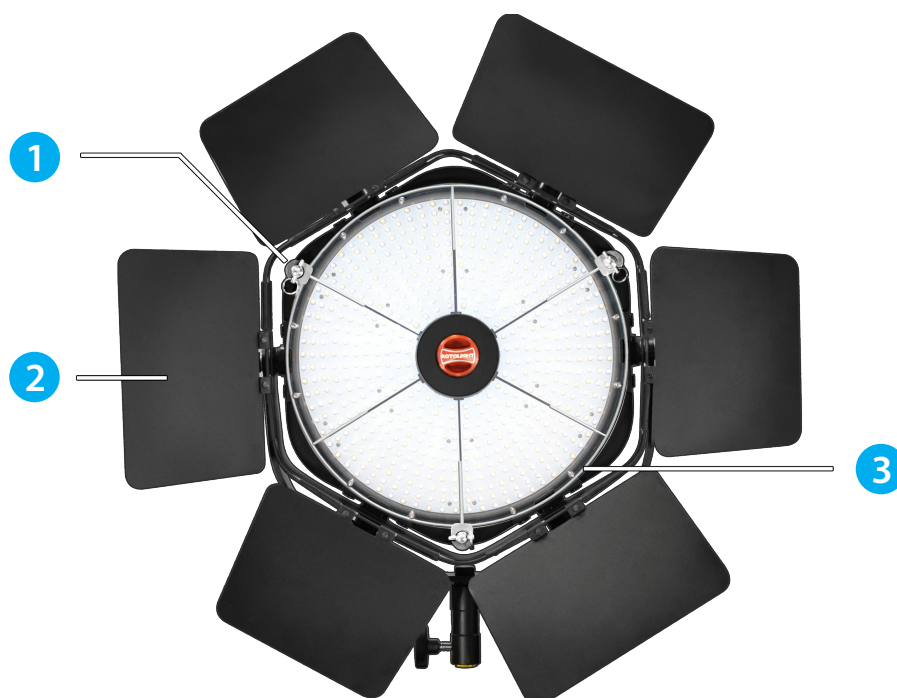
Use these to connect the Yoke, or Barn Doors. There are additional mounting holes on the rear face and either side of the main mounting point, these can be used to fix the T-Bar connector plates which join the lights together. ANOVA is designed with an outer 'Honeycomb' shape so it can easily be 'tesselated' into a panel/wall/ring of lights. *Rotolight Inc at Pinewood Studios, England (+44 1753 422750) are happy to quote on custom Yokes for larger arrays of ANOVA lights.*

The ANOVA Yoke is fitted with a 'TVMP' (TeleVision Motion Picture) bracket. This will fit a standard 'Junior' Lighting support stud as used in film and television studios. The TVMP Bracket on the ANOVA has two positions for the retaining screw, The higher position is for a Junior stud, the lower position is so you can mount the Anova on a 3/8 stud on a normal studio lighting stand

(Please check that the stand is designed to take the weight of the Anova, approximately 2.6 Kg without Barn Doors or 4.1Kg with Yoke and the Barn Doors fitted)

8 V-Lock Battery Plate

Connect standard (14.4 volt) V-Lock Batteries or Anton Bauer Goldmount Batteries with a QR-A200 plate adapter. To release the battery, press the button on the bottom of the plate.



1 Accessory Mounting Spigots

The three spigots on the front face of ANOVA are used to mount the 'Gel Frame Holder' (lower position) using three 'Ball Lock Pins', and the upper mounting position is used to mount optional accessories for the ANOVA, e.g. Honeycomb Louver, SoftBox, Focussing Fresnel Filter (Available separately).

2 Barn Doors

The Barn doors install using 4 of the smaller 'soft touch' knobs on the main mounting points of the utility blocks. The six sided barn doors have two types of shutter shapes, the three shutters which become narrower at the outer edges close in first, and the three trapezoid shutters which become wider at the outer edge close in after the other types, this enables the ANOVA to create soft hexagon shaped pools of light when the doors are folded inwards. The doors can be folded 'flat' at 90 degrees to the body.

The flight case will store the ANOVA with both the Gel Frame holder and the Barn doors fitted (closed).

3 Gel Frame Holder

The 'Gel Frame Holder' mounts the spigots with the ring and spokes closest to the protective window glass, and is secured in place using three 'Ball Lock Pins' at the lowest positions on the spigots. You can carefully slide a precut filter gel underneath the Gel frame or, alternatively you can remove two of the pins and lift the frame up slightly to install the filter gel. The 'Lee' filter gels are stored in the Gel Sleeve, in the lid of the flightcase.

4 Anova Menu Operation



ANOVA's menu can be accessed via the encoder knob on the backplate. Rotating the knob will toggle through the menu items, press the encoder knob inwards to make a selection.

Below are explanations of the menu functions.



Brightness

Brightness is displayed as 0% to 100%. The brightness setting can be controlled locally on the back of the ANOVA using the encoder knob. Rotating the encoder knob will increase the brightness in steps of 1%, however, if you press and hold the encoder knob then you can increase or decrease the brightness in steps of 10% (Fast Mode).

If you wish to control ANOVA using wired or wireless DMX then you need to go to the DMX menu and select the desired DMX channel for the BRI (brightness) setting. The ANOVA will respond to brightness commands via the set DMX - BRI channel number if the CNTL (control) menu is set to - DMX. If the CNTL setting is - WIFI then the ANOVA will respond to brightness commands sent via the iPhone/iPad Magic Eye application.

ANOVA can accurately reproduce a sampled brightness setting from the Magic Eye App, via both - WIFI or - DMX.



Colour Temperature (Only available for ANOVA Bi-Colour V2 EcoFlood)

On ANOVA the colour temperature of the LEDs can be set locally using the encoder knob, or using - WIFI , or using - DMX , where the incoming signals can be sent via wired DMX or wirelessly using the Magic Eye app.

ANOVA can electronically reproduce any colour of white light from candlelight (3150 kelvin) through to direct Daylight (6300 kelvin).

ANOVA has a remarkably even colour spectrum with a CRI (colour rendering index) better than >95. ANOVA reproduces studio accurate colour , i.e. light whose colour temperature is within 50 kelvin of the desired setting. This allows the ANOVA to be used in conjunction with other professional calibrated lighting systems with no noticeable difference in the lighting colour.

ANOVA can use the camera in an iPhone or iPad to measure the colour of ambient light (using the calibration card) , via the Magic Eye App. These colour settings can be stored and recalled using the application.

ANOVA uses a patented system of bi-colour LEDs to accurately display sampled colour settings. As you rotate the encoder knob of the ANOVA you will see colour increase in 10 kelvin steps from (3150k) to (5100k) and thereafter in twenty kelvin steps to (6300k).



If you need to manually enter a colour setting quickly, you can press and hold the encoder knob to increase or decrease the colour temperature in steps of 100 kelvin (Fast Mode).



Control Mode

Anova offers a range of control methods:

Local Control

Displayed as `LOCAL`, this mode allows control via the backplate encoder knob and switch.

DMX Control

This mode allows control via a DMX device wired through the DMX input. In addition, ANOVA can be set to act as a DMX Master Controller and convert incoming wireless signals to DMX via the selected DMX - `BRI` (brightness channel #) and - `COL` (colour channel #).



NB: CONNECTING WIRED DMX INPUTS FROM A DMX CONSOLE MAY CAUSE DAMAGE TO THE ANOVA IF DMX MASTER MODE IS SWITCHED ON.

WiFi allows control via the Magic Eye iPhone or iPad APP (sold separately). using this control via - `WiFi` option will automatically force WiFi to turn on (if it was - `OFF`) and this may reboot the ANOVA to allow for synchronisation of the WiFi data. Please note that controlling ANOVA via - `WiFi` is an independent process from the DMX Master Mode, which can simultaneously translate DMX channel sent across wifi sub channels into wired DMX for connecting legacy third party equipment such as other lights from the DMX outputs of the ANOVA. I.e. Anova can be controlled via - `WiFi` and can also be in DMX Master mode - thus controlling externally connected third party DMX equipment.



The Magic Eye APP allows operation of a single ANOVA, or Multiple ANOVAs via the pro fader panel, and the APP will also have a magic Eye Colorimeter which can measure colour and light intensity. The Magic Eye App is available via the iTunes App Store.



DMX Menu

In the DMX Menu you can select the channels that will control ANOVA's brightness (- `BRI`) and Colour (- `COL`). Simply select the function that you wish to edit and enter the channel number using the encoder knob. Each channel is set separately.

Additionally you can set DMX Master Mode to - `ON` or - `OFF`. DMX Master Mode will automatically activate WiFi to be ' - `ON`'.

DMX Master mode allows you to connect legacy 3rd party equipment to the DMX wired output and control it wirelessly from the Magic Eye App.

DMX Master Mode works independently from the ANOVA control, so if you wish, you can continue to control ANOVA via - `WiFi` or via - `LOCAL`, whilst running DMX master mode to control your legacy equipment.

DMX Master mode can be used to create a wired DMX512 'universe' from each independent ANOVA in your kit.

This is a most powerful feature, and allows a large amount of equipment to be controlled from within the 'scenes' of the pro fader control page, and matrix page of the Magic Eye App.

The Matrix Page illustrates which DMX sub channels are related to which ANOVA using colour bars, these channels can then be allocated to the desired fader channels on the pro fader control page of the Magic Eye APP. The Matrix page also allows you to 'hide' channels, which may be useful if they contain 'colour' information and once set can be hidden until they require resetting the values. (user information for the Magic Eye App is included with the application).

To operate the ANOVA via the selected DMX channels you must also select CNTL – dmx from the control menu.

To summarise, you can set the channels for DMX control of brightness and colour in the DMX Menu. You can also activate DMX Master Mode, which in turn will automatically activate the WiFi system. You must choose CNTL - DMX if you wish for ANOVA to be controlled via wired DMX or via DMX Master mode.



NB: NEVER CONNECT A WIRED DMX CONTROLLER TO ANOVA WHILST DMX MASTER MODE IS ACTIVATED AS DAMAGE MAY OCCUR.



WiFi Menu

In the WiFi Menu you can activate/de-activate ANOVA's WiFi interface. If you do not need to use WiFi or DMX Master Mode, then de-activating the WiFi system will save power and extend your battery life. The Factory default setting for the WiFi System is 'ON'. When you change the WiFi setting, ANOVA will reboot to allow the changes to take effect. (ANOVA will retain all other current settings). You can NOT turn WiFi – OFF if either CNTL - W I F I or DMX Master Mode is – ON.



PIN Menu

A lot happens in the PIN menu. (Personal Identification Number)

The Factory Default PIN is '1AAA'. This data is used to encrypt the WiFi system communication using Apple iOS WEP (Wireless Encryption Protocol). The first digit can be 1-4, 6-9 or 11. This first numeric digit is also used to 'force' the WiFi Channel so that you can choose to create an ANOVA wifi network on a specific channel.



Because we can only display 4 digits on the back of the ANOVA, we add a '0' to the first single numeric digit of the PIN to make a 5 digit WEP password so PIN '1AAA' becomes password '01AAA', PIN '2ABC' would become password '02ABC', etc. However '11' is already a double digit, so for instance PIN '11XYZ' would become password '11XYZ'.

When you use your iPhone or iPad to connect to the ANOVA , go to settings, wifi, and select the ANOVA.

If you set '1AAA' as your PIN, then the displayed ANOVA network is 'ANOVA 1' and the WEP password is '01AAA'. If you set '11XYZ' as your PIN, then the displayed ANOVA network is 'ANOVA 11' and the WEP password is '11XYZ'.

NB: It is possible to create multiple ANOVA networks, so if you have more than one studio, you can create a unique ANOVA network for each studio, to avoid interaction between different engineers/studios. For example if you had three studios (Studio A/B/C) each with 10 ANOVAs, then you could create a network in studio A using PIN '1STA' which would have WEP password '01STA' , at the same time Studio B could have PIN '6STB' (password '06STB') and studio C could use PIN '11STC' (password '11STC').

NB Each ANOVA in each studio/network should be set with the same PIN. Forcing 3 networks to exist on WiFi channels 01, 06, and 11 gives the perfect amount of channel separation between the three networks. If you have created three separate networks as above , they will show up on your iPhone wifi page as 'ANOVA 1', 'ANOVA 6' and 'ANOVA 11'. Each will require the appropriate WEP password to join.



You can only join one network at a time .



The iPhone and iPad have a bad habit of remembering the last settings for a particular network, and so it is good practice to 'forget this network', before joining an ANOVA network. If the iPhone or iPad does not ask you for the WEP Password, then 'Forget This Network' and join again.

We apologise if this PIN process seems a little complicated, but a lot is happening here, e.g., you are setting a specific wifi channel for your ANOVA network, by setting the same PIN you are identifying which lights will be networked together, the WEP is protecting you from unwanted interference from Audiences/Hackers, and finally if you need to have multiple ANOVA networks this is easily possible using the PIN system.



Some notes about the operation of the ANOVA wifi network.

When you turn on an ANOVA , with the WIFI turned –on, it will create a network (no third party equipment, eg router, required). When you turn on the next ANOVA it will check to see if the first ANOVA has the same PIN and if a network exists, and then it joins that specific network. Your iPhone or iPad also become ‘clients’ of that specific ANOVA network. Only one (authorised by WEP password) control client (iPhone/iPad) can be connected to an ANOVA network.

If you need to run multiple simultaneous ANOVA networks it is a very good idea to provide as much WiFi channel separation as possible, i.e. use WiFi channels 1, 6, 11. This will avoid interference between the channels. If you are only using one network, then you can choose any appropriate wifi channel , i.e. 1,2,3,4,6,7,8,9,11.

The Anova will have been set to provide you with an appropriate range of legal wifi channels for your country (of purchase). Please refer to local legislation as to which channels are legal in your territory prior to operation.

If you have forgotten your PIN setting or simply wish to start over with a simple setup, powering up the ANOVA whilst depressing the encoder switch will bring up the DIST (Distributor) menu, and you can reset the factory default settings by choosing ‘-yes’. The PIN will now be set to ‘1AAA’ and the WEP Password for your iPad/iPhone will be ‘01AAA’. You will also need to select CNTL –wifi to run the light from the Magic Eye App

5 Technical Specifications

	ROTOLIGHT ANOVA V2 BICOLOUR ECOFLOOD		ROTOLIGHT ANOVA SOLO 5600K ECOFLOOD	
BEAM ANGLE	Standard' 50 Degree	UltraWide' 110 Degree	Standard' 50 Degree	
COLOUR RANGE	Electronically Adjustable from 3150K to 6300K (+/- 50K)		Fixed 5600K (+/- 100K) - Correction filters supplied to achieve 6300K, 4400K or 3200K	
OVERALL CRI (Ra)	CRI => 95 (Skintone R15 CRI=98)	CRI => 95 (Skintone R15 CRI=98)	CRI => 90 (Skintone R15 CRI=93)	
POWER CONSUMPTION @100% OUTPUT	39 Watts at 5600K @100% Output	38 Watts at 5600K @100% Output	41 Watts at 5600K @100% Output	
TUNGSTEN BULB EQUIVALENT	3.46Kw	1Kw	3.9Kw	
LUX AT 3 FEET (0.9m) FOOT CANDLES (fc)	5272 Lux (490 fc)	1467 Lux (136 fc)	5938 Lux (552 fc)	
LUX AT 6 FEET (1.8m) FOOT CANDLES (fc)	1393 Lux (130 fc)	375 Lux (35 fc)	1463 Lux (136 fc)	
LUX AT 9 FEET (2.7m) FOOT CANDLES (fc)	625 Lux (58 fc)	172 Lux (16 fc)	667 Lux (62 fc)	
CONTROL	Local, DMX, or WiFi Via Magic Eye App for iOS			
WEIGHT	2.5Kg (3.2 Kg with Yoke) , 4.98Kg with Yoke and Barn Doors			
DIMENSIONS	440mm (width) x 493 mm (height) x 107 mm (depth)			
MOUNTING	Via Standard TVMP Bracket on Yoke or M8 via Utility Block			

* Based on calculation by 'The Lumen Coalition' of leading Lighting manufacturers and Government Bodies, where the agreed tungsten standard is 1 watt produces 16 Lumens in 360 degree beam angle.

Component Weights

Anova	2590g (2.59kg)
Yoke	440g (0.44kg)
One piece yoke with knobs	610g (0.6kg)
Anova with Yoke, and knobs	3202g (3.2kg)
Flight Case	7100g (7.1kg)
Case filled with Anova, yoke, PSU and AC cord	8530g (8.53kg)
Filter Sleeve Set	90g (0.9kg)
Power Supply and AC Cord	500g (0.5kg)
Barn Doors and fixing knobs	1500g (1.5kg)

Optional Accessories

- 'Anton Bauer' Dionic Battery Bundle
- Hexagonal Honeycomb louver
- SoftBox, Snoot and SnapGrid
- T-Bar Mounting plate
- V-Bracket for joining lights
- Double Yoke
- Portabrace Rain Cover and Soft Carry Bag
- Replacement Filter Pack / Colour Filter Pack
- Aluminium Flight Case
- Hexagonal Barn Doors
- Bespoke Custom Yokes and Mounts on request

6 Troubleshooting

I have attached a battery but the unit does not power up ?

Check that the power switch is set to 'BATT' and not 'OFF' or 'DC IN'.

I have attached the AC to DC Adapter but the unit does not power up ?

Check that the power switch is set to 'DC IN' and not 'OFF' or 'BATT'.

I want to use an Anton Bauer battery with my ANOVA, how does it fit ?

You need to get an Anton Bauer QR-A200 adapter plate, available from your dealer or the Rotolight online store.

My ANOVA has powered up but when I try to adjust the brightness or colour using the encoder knob, nothing changes?

The CNTL (control) needs to be set to `-LOCAL` (local), not DMX or WIFI.

When I try to connect to my ANOVA via WIFI from my iPhone it does not work?

Firstly you need to download the Magic Eye APP from the iTunes APP Store (sold separately) , then to connect, go to settings – wifi, select the 'ANOVA' from the list of available wifi sources, if it does not ask you for a password, then press the right arrow > and 'forget this network'. Reselect the ANOVA from the list of wifi sources, then enter the password when prompted, the factory default is '01AAA'.

This problem is caused by the iPhone remembering old passwords for networks that no longer exist.

I have forgotten the pin/password for my ANOVA?

You can either press the PIN button and this will reveal the PIN code that has been set one letter at a time, or alternatively you can RESET the ANOVA back to factory default by powering it up , holding down the encoder switch (it will say DIST (Distributor) and ask you yes or no for the RESET command) – all variables will be set back to factory default including the PIN which will be '01AAA'.

I have set a PIN of '3XYZ', what is my password and which ANOVA network should I select on my iPhone?

The password on your phone will be '03XYZ', the network will appear as "ANOVA 3" on the list of available networks.

I used a standard photographic colorimeter to check the colour of light on my ANOVA and it did not seem to give me a sensible reading.

Most colorimeters are not designed to accurately measure the light colour from LED's. The ANOVAs are all calibrated using a Konica Minolta CL-500A colorimeter which is specially designed to accurately measure LED light sources.

7 Warranty Information

Manufacturer will extend Distributor and its customers a Limited manufacturer's Product Warranty of 1 Year on Manufacturers Products from date of purchase. Distributor agrees that this warranty shall not include General 'wear and tear', and shall be invalidated by tampering with, dropping or damaging the product or misuse. The Manufacturer's Products warranty will specifically not include the tearing or damage to filter Gels, unless immediately reported upon delivery, water damage to the unit, battery acid damage to the unit, stress fractures to the unit or filter holder (unless reported on delivery), or disconnection of wires (unless reported on delivery). This warranty is subject to the manufacturer standard terms and conditions available on request. Rotolight strives to continually improve its products. We therefore reserve the right to modify the specifications and designs discussed herein.

Register online now to activate your warranty at www.rotolight.com/register.

8 Credits

Conceptual Design and Imagineering	Rod Gammons
Artwork	Robert Turner
Anova Engineering Team	Chris, David, Jonathan, Arthur, Jan
Rotolight Team	Rod. A, Alex, Ricardo, Chris, Shaun

9 Rotolight Quality Assurance

Your Rotolight has been individually examined and found to pass Rotolight's Quality Assurance testing.

CHECKED BY	<input type="text"/>	SERIAL #	<input type="text"/>		
WiFi ZONE	<input type="text"/>	FIRMWARE VERSION	<input type="text"/>		
OPERATIONS TEST					
DMX	DC IN	Battery	Switch	WiFi	Encoder
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ACCESSORIES					
PSU	AC Cord	Manual	Gel Frame	Gels	Barn Doors
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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