

ALURA

ComPar 10 5-in-1 RGBAW LED spot



User manual

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User manual version: 2.0 Creation date + author initials: 21-11-2013 RV Revision date + author initials: 16-07-2014 RV

Safety instructions



WARNING!



Always keep this device away from moisture and rain! Hazardous electrical shocks may occur!



WARNING!



Only connect this device to a matching power outlet. This device is intended to work on a specified AC currency. Connecting this device to power outlets with other voltages may result in permanent damage and possible hazardous situations, such as fire or electrical shocks!



WARNING!



Be careful with every operation of this device. Touching live wires inside and outside the unit may cause hazardous electrical shocks!

This unit must be operated by, or under the supervision of an adult. This device is not suitable for children.

Every person involved with the installation, operation and maintenance of this device has to:

- Be qualified
 - Follow the instructions of this manual
 - Make sure there is no damage caused by transport. If the device seems damaged from the outside, do not use it and contact your dealer for more information and consultation.
 - To make sure the device maintains in perfect condition and for safe operation, it is necessary for the user to follow the instructions and warning notes of this user manual.
 - Damage caused by improper use or modifications to the device are not covered by warranty.
 - This device does not have any user-serviceable parts inside. Servicing of this device needs to be done by qualified technicians.
- Important notes regarding safety and health:**
- Never let the power cord come in contact with other cables. Handle the power cord and all connectors with the mains with caution.
 - Never remove any warning or informative labels from the unit
 - The ground contact always needs to be connected. Do not cover or remove the ground contact.
 - Never leave cables lying around
 - Do not open the device and do not modify any hard- or software of this unit.
 - Do not insert this object into air vents.
 - Do not connect this device to a dimmerpack.
 - Do not switch the system on and off frequently as this will reduce the lifespan of the device.
 - Do not drive the inputs of the fixture with a signal larger than required to work at full performance.
 - Only use this device indoor, avoid contact with water, moist or other liquids. Do not place items filled with liquids on top of the unit.

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- Avoid nearby flames or heat sources, do not place this device near flammable liquids, gas or flammable items.
- Always disconnect the device when it is not in use for a longer period or time, when servicing is needed or when the device needs cleaning.
- Only handle the power cord by its connectors. Never pull the cable to remove a connector from its socket, as this could lead to damage and electrical shocks.
- Always operate this device with a stable AC current.
- Always operate this device with the AC ground wire connected to the electrical system's ground.
- Never use other types of cables than specified in the manual, do not use defective or bad functioning cables. Contact your dealer when the included or required cables do not work properly with this device.
- When the device has been exposed to large temperature differences (for example, transport from outdoor to indoor), do not connect the device immediately. Do not activate the unit until it has reached room temperature, as moist might build up inside the unit, which may cause shortcuts and/or electrical shocks.

Guidelines and types of use:

- This device is intended to be used by professionals on stage, in theaters, clubs and other equal venues.
- This device is not suitable for children and always needs to be operated by an adult.
- Only use the device when the environment is suitable and will not cause any damage. Do not use the product in moist or dusty environments, or where long-term damage may occur such as:
 - indoor swimming pools where chlorine is used.
 - Beaches, where sand and salt are present.
 - Outdoor, without roof protection
 - Indoor areas where intense heat sources are present or where the temperature exceeds levels which are comfortable for humans.
- Only use the included power adapter and only connect the device to a suitable power outlet with the correct output voltage. Connecting the device to a power outlet with the wrong type of voltage or using the product with a wrong type of power supply may cause permanent damage to the device.
- Avoid shocks and collision during use and transport. Do not transport the device while in use. Avoid brute force during the installation and operation of this device.
- Familiarize yourself with the functions of the device before use. Do not allow operation of the device by unskilled or unqualified people.
- Use of the device in other ways than described in this user manual may cause damage and injury. Ayra can not be held responsible for any damage or injury caused by improper use.

Storage and transport:

- This device is intended for mobile use. When transported, use the original packaging of the product, or a fitting flightcase, preferably filled with foam.
- This device is not intended for permanent use. Operation breaks will ensure that the lifespan of the device remains unchanged.
- If the device is not used for a longer period of time, disconnect it from its power source and store it in its original packaging, or in a fitting flightcase.
- Store the device indoor, dry and do not expose the device to extreme temperature differences.

Housing:

- Inspect the housing of the device frequently. Severe dents, cracks and missing screws should be avoided at all costs. Do not use the device when the housing is not in optimal condition. Contact your dealer or a skilled technician when in doubt about the state of the device
- Check the fixture and screws for corrosion. Corrosion should not be present on the fixture. Contact your dealer or a skilled technician when corrosion is found on the fixture
- Every power or signal chassis/connector should be mounted tightly. Do not use the device when connectors are loose.
- Do not use the power cord when the cores are visible. Contact your dealer for a replacement if needed.
- Avoid the buildup of dust and dirt. Clean the exterior of the fixture every month with a dry or damp cloth. When using the device intensively, the cleaning frequency needs to be increased.

Fuses:

- The main fuse of this device is to be found on the rear of the device. In most cases, directly next to the power inlet.
- Only replace a fuse for a new one with the same type and rating! Do not use a fuse with a higher or lower

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rating.

- Do not bridge the fuse with electrical wires, aluminum foil, as the fuse is used for protection against electrical shocks and short circuit.
- Always mount the fuse cover back to the fuse compartment.

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Box contents

Box contents

1x ComPar 10 fixture
1x power cable to Schuko
1x power cable to UK plug

Unit and accessory inspection

- Always use the supplied power cable to connect the unit to a power supply. If the cable appears broken or has visible damage, do not use it.
- If the unit is not going to be used for a longer period of time, disconnect it from the power supply and store it in a dust-free environment.
- Always check the unit for possible damage before use. If you suspect that something is wrong with the unit, do not connect it to a power source! When you suspect that your unit is broken or damaged, contact your local dealer or a certified technician to inspect the unit.

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Device overview



- 1. Beam output
- 2. Tightening knobs
- 3. Dual bracket
- 4. LED display with menu buttons
- 5. Safety eye
- 6. Built-in microphone
- 7. DMX output (3p XLR)
- 8. DMX input (3p XLR)
- 9. IEC power input with fuse
- 10. IEC power output (link)

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Setting up the unit

To activate the unit, connect the included power supply to the unit and a suitable 230V, 50 Hz power outlet.

The fixture will start up and show the last chosen setting on the display. Usually, with a new product, this is the DMX mode with the value set on 001.

The display shows several settings, each with the possibility to set several values.

Use the display and the menu buttons to set preferences, change settings and scroll through the menu. "Enter" is used to save a certain setting or preset, press "Menu" for at least 2 seconds to discard the change and return to the main menu.

The table below shows an explanation for every feature and value.

| display | Mode | Function |
|-------------|-----------------------|--|
| ADDR | DMX address setting | A001-A512 |
| CHND | Channel mode | 2CH/3CH1/3CH2/5CH/8CH |
| SLND | Master/slave mode | Master (default) Slave 1 - Slave 2 |
| SHNd | Color | Color 1~31 Dimmer 0~255 Strobe 0~255 |
| | Jump | Speed 0~99 Dimmer 0~255 Strobe 0~255 |
| | Fade | Speed 0~99 Dimmer 0~255 Strobe 0~255 |
| SOUN | Sound controlled mode | Sound controlled mode on/off |
| SENE | Sound sensitivity | Sound sensitivity 0-100 |
| BALA | White Balance | Red 000~255 Green 000~255 Blue 000~255 |
| Led | LED mode | ON-OFF |
| DISP | Display inversion | Display Inversion, Idsp-dspl |
| TEST | Test mode | Self test |
| TEMP | Temperature | 0 ~9999 |
| Hour | Using time of light | Fixture hours,0 ~ 9999 |

ADDR: DMX address setting, used to determine the DMX starting channel. From this channel on, the fixture will respond to values, corresponding with the amount of channels that the fixture is occupying. (For example, when you turn the fixture in 3CH mode and set the starting address to value 003, the fixture will respond to channels 3, 4 and 5.)

CHND: The channel mode of the fixture makes it possible to use the correct channel mode setting for every application. For simple and basic setups, users may prefer to use the 2- or 3-channel mode. For advanced applications, the 5- or 8-channel mode might be preferred.

SLND: When using the master/slave function, you need to connect 2 or more fixtures with XLR-XLR cable. The first fixture in line needs to be set as master, the others as Slave 1 or 2 (synchronized or mirrored performance). This way, the slaves will mimic the behavior of the master fixture for wonderful synchronized lighting shows.

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ShNd: Show programs, which are used to turn the fixture in a stand-alone LED projector, which changes colors automatically by switching, fading or performing static with a certain color and intensity.

Color: Select a color, apply dimmer and strobe options. After this, the fixture will project the static color.

Jump: Color switch, apply dimmer and strobe options. After this, the fixture will project switching colors on the set speed.

Fade: Color fade, apply dimmer and strobe options. After this, the fixture will fade from one color to another on the set speed.

SOUN: Activate or disable the built-in sound controlled mode. This way, the fixture will respond to the beat of the music.

SENE: The sensitivity of the built-in microphone is adjustable, to optimize the built-in sound controlled mode. For example, when your music source (speakers) are placed far away, you might want to increase the sensitivity to make sure that the fixture responds to the sound accurately.

BALA: When using several fixtures, it might be possible that you want to optimize the colour temperature when using full output (white, created by RGB @ 100% output). Some people prefer white with a slight blueish tone, others prefer warm white to mimic traditional light bulbs. Every separate colour can be changed (dimmed) to achieve perfect white balance when projecting full white in normal mode.

Led: The LED display will shut off automatically after a few seconds when this function is activated. When pressing any button, the display will activate again. When deactivating the feature, the display will be lit permanently.

DISP: Display invert version – When using the fixture in a hanging setup, it is possible to flip the display, so the characters will be shown upside down. This makes reading the several statuses much easier.

TEST: Self test mode, to control all segments and LEDs

TEMP: Current temperature (displayed in degrees Celsius)

Hour: The fixture shows how much hours it has been active. This is very practical for rental companies which need to perform service intervals on all fixtures after several hours of performing, to maintain optimal shape.

I.T.M. (Intelligent Temperature Monitoring):

Temperature controlled fan cooling

The internal fan of the unit is temperature controlled, which means that the fan will only turn on if needed. For theatrical and other applications where fixtures need to be as silent as possible, this provides lots of convenience. When the fixture is not used (in blackout mode, or used with low output), the fan will not turn on.

The internal fan will turn on when the temperature sensor detects a temperature between 35 and 55 degrees Celsius. At first, the fan will turn on in low power mode, thus being very silent but still cooling. When the unit detects that the temperature has not changed (or even increased), the speed of the fan will increase to its maximum level (when the temperature reaches 55 degrees Celsius).

Temperature controlled power limit protection

When working in extreme environments (especially high temperature environments such as clubs or sunny outdoor festivals) it is important for the drivers and LED modules to stay intact and be reliable. Therefore, the ComPar 10 is equipped with a power drop protection, which decreases the LED output when the temperature of the fixture exceeds 60 degrees Celsius. For every degree above the 60 degrees limit, the output power will be decreased with 5%.

Temperature controlled protect mode

When the temperature of the fixture exceeds 68 degrees Celsius, the critical maximum temperature limit is

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reached and the LED output of the fixture will be shut down automatically. A cool-down time is applied until the temperature decreases back to 60 degrees Celsius.

When the temperature of the fixture does not decrease after several shut-down actions, check the following:

- Is the fan still working?
- Is the fan blocked?
- Is the environment temperature too high?
- Is the fan sucking hot air into its ventilation system?
- Is the fixture too close to other (hot) objects?

If you are unable to solve temperature problems, shut down the fixture completely and check if the fixture still works when you connect it in a cooler area. If you have any problems with the functionality of the fixture after this check, contact your local dealer or a skilled technician to inspect the unit.

The ComPar 10 is equipped with several working modes, each with its own advantages. For simple events there are stand-alone modes, for advanced situations there are options to create synchronized lightshows, or controlled with a DMX-512 controller. A short description for each mode can be found below:

Auto:

Automatic lightshow with a pre-programmed internal show, on a user set speed, with optional dimmer and strobe options. Select a static color, color jump or color fade mode.

Sound:

Automatic lightshow with a pre-programmed internal show, on the beat of the music, thanks to an internal microphone which senses the beat of the music and will change a step every time a beat is detected.

Slave:

In master/slave mode, it is possible to link several ComPar 10 fixtures together, to create synchronized lightshows in the Auto or Sound mode. The first fixture in the chain needs to be set in the Auto or Music mode. All the next fixtures need to be set to Slave and will mimic the behavior of the first fixture. The master/slave function requires XLR – XLR cables (not included).

DMX:

The ComPar 10 can be connected to a DMX-controller with standard XLR – XLR cable. While doing so, a DMX-terminator must be connected to the last fixture, at the end of the DMX-chain. This prevents reflections in the DMX-signal, which could cause flickering and unwanted behavior from your intelligent fixtures.

A DMX terminator is a XLR connector with a resistor of 120 Ohm, placed between pin 2 and 3 as a bridge.

With the following channel assignment, it is possible to control the ComPar 10:

2CH mode:

| CH1 | Dimmer | 000 - 255 Master Dimmer 0-100% |
|-----|-------------|--|
| CH2 | Color Marco | 000 - 008 R 009 - 016 G 017 - 024 B 025 - 032 W 033 - 040 A 041 - 048 R + G 049 - 056 R + B 057 - 064 R + W 065 - 072 R + A 073 - 080 G + B 081 - 088 G + W 089 - 096 G + A |

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| | | | |
|--|--|-----------|-------------------|
| | | 097 - 104 | B + W |
| | | 105 - 112 | B + A |
| | | 113 - 120 | W + A |
| | | 121 - 128 | R + G + B |
| | | 129 - 136 | R + G + W |
| | | 137 - 144 | R + G + A |
| | | 145 - 152 | R + B + W |
| | | 153 - 160 | R + B + A |
| | | 161 - 168 | R + W + A |
| | | 169 - 176 | G + B + W |
| | | 177 - 184 | G + B + A |
| | | 185 - 192 | G + W + A |
| | | 193 - 200 | B + W + A |
| | | 201 - 208 | R + G + B + W |
| | | 209 - 216 | R + G + W + A |
| | | 217 - 224 | R + G + B + A |
| | | 225 - 232 | R + B + W + A |
| | | 233 - 240 | G + B + W + A |
| | | 241 - 255 | R + G + B + W + A |

3CH Mode1:

| | | |
|-----|-------|----------------|
| CH1 | Red | 000-255 0-100% |
| CH2 | Green | 000-255 0-100% |
| CH3 | Blue | 000-255 0-100% |

3CH Mode2:

| | | |
|-----|---------------|--|
| CH1 | Master Dimmer | 000-255 0-100% |
| CH2 | Strobe | 000-007 No Function 008-255 Strobe slow to fast |
| CH3 | Effect | 000 - 004 Blackout 005 - 080 Colour Macro (Colour 1 ~ Colour 31) 081 - 150 Colour Jumping (slow to fast) 151 - 220 Colour Fading (slow to fast) 221 - 255 Sound Control (microphone sensitivity) |

4CH Mode:

| | | |
|-----|-------|----------------|
| CH1 | Red | 000-255 0-100% |
| CH2 | Green | 000-255 0-100% |
| CH3 | Blue | 000-255 0-100% |
| CH4 | White | 000-255 0-100% |

5CH Mode:

| | | |
|-----|-------|----------------|
| CH1 | Red | 000-255 0-100% |
| CH2 | Green | 000-255 0-100% |
| CH3 | Blue | 000-255 0-100% |
| CH4 | White | 000-255 0-100% |
| CH5 | Amber | 000-255 0-100% |

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8CH Mode:

| | | |
|-----|---------------|---|
| CH1 | Master Dimmer | 000-255 0-100% |
| CH2 | Strobe | 000-007 No Function 008-255 Strobe slow to fast |
| CH3 | Red | 000-255 0-100% |
| CH4 | Green | 000-255 0-100% |
| CH5 | Blue | 000-255 0-100% |
| CH6 | White | 000-255 0-100% |
| CH7 | Amber | 000-255 0-100% |
| CH8 | Effect | 000 - 004 Blackout 005 - 080 Colour Macro (Colour 1 ~ Colour 31) 081 - 150 Colour Jumping (slow to fast) 151 - 220 Colour Fading (slow to fast) 221 - 255 Sound Control (microphone sensitivity). |

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Installation and maintenance

Installing the fixture in a hanging position

When installing the system in a hanging position (for example, on a truss construction), install proper G-clamps or half couplers (not included).

NOTE: When installing the system in a hanging position, the following list of safety precautions must be met:

- Use at least one regular clamp, for optimal stability and safety.
- Use at least one safety cable, capable of holding 3x the weight of the system. Safety cables must be installed in such a way that it is impossible for the system to fall down when one of the two mounting points breaks.
- It is prohibited to install the system by using only safety cables or chains!

Warranty is void when any of the above safety precautions are not met. Ayra can not be held responsible if any damage or injury occurs due to improper use of the system.

Transport

When using this fixture in mobile setups, provide sufficient protection during transport. Always use the provided transport box or a protecting flightcase to protect the system.

Replacing the internal fuses

First check whether a failing power supply may be the cause of malfunction. When you suspect that one of the internal fuses is broken, the fuse can be replaced by removing the fuse cover, located on the rear of the fixture, near the power inputs, outputs and control menu.

WARNING: Before checking the fuse, always disconnect the fixture from your wall outlet or any other power supply to prevent electric shocks.

Always replace a broken fuse with a fuse that has the same type and rating. After the fuse has been replaced, always close the fuse-cover. Reconnect the fixture to your power supply and check whether the problem is solved. When this does not solve your problem, contact your local dealer for help.

Spare parts

This unit has no user serviceable parts inside. When any damage to internal components occurs, contact your local dealer or a specialized technician in order to repair the fixture.

Cleaning:

Clean the housing of the fixture frequently with a damp cloth, to remove dust and/or dirt.

WARNING: Always disconnect the fixture from your wall outlet or other power supply and let the fixture dry before reconnecting it. This prevents possible electrical shocks.

The lenses can be cleaned with a non-aggressive glass cleaning solution, but is not recommended. Ayra recommends to clean the mirror and lens with a fine brush, while removing dust and/or dirt with a vacuum cleaner. Avoid touching the lenses with your bare fingers, to prevent fingerprints on the optics.

Checkup

To prevent dangerous situations, make sure your fixture is in optimal condition before using it. Check your fixture frequently by using the following checklist:

- All screws must be mounted tightly.
- Check all screws and metal parts for corrosion. No visible corrosion may be present.
- The exterior of your fixture must be in optimal condition. Check your fixture for dents, cracks or missing parts.
- Your installation spot must be in optimal condition. Check your installation spot for corrosion, cracks, dents and strength.
- Electrical components (connectors and cables) must be in optimal condition. Any form of damage (cuts, exposed wire cores or any other visual deformities should not be present.

If any visual or mechanical damage is detected, contact your local dealer or a specialized technician. Do not use a damaged or failing fixture.

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DMX lighting troubleshooting

If you have any problems with DMX lighting, consult this troubleshooting section to solve any difficulties with your product. If this troubleshooting section does not solve your problem, contact your dealer for more information and help.

This troubleshooting section contains the most frequent problems and is not a complete collection of possible faults, defects and solutions. The troubleshooting section applies for DMX controllers, DMX cabling and DMX lighting fixtures. It is possible that not all described problems, causes and solutions apply to your situation as product details may vary from product to product.

| Problem | Possible Cause | Solution |
|---|---|--|
| The fixture can not be activated | Blown fuse | Check the fuse compartment for blown fuses and replace it if necessary. |
| | No power cable plugged in | Plug in the power supply to a matching power outlet |
| | Power switch is not in the ON position | Turn on the device by switching the ON/OFF switch to the ON position, if available |
| The fixture does not respond to DMX signals | Wrong DMX address | Set the DMX address to the right value |
| | DMX controller blackout function activated | Deactivate the blackout function of your DMX controller |
| | Faulty positioning of the DMX polarity switch on the controller | flip the polarity switch on your DMX controller |
| | No response or DMX activity signal LEDs active | Check your DMX cables for possible connection breaks and replace them if necessary. |
| The fixture does not respond to sound | Wrong working mode selected. | Check if the sound activated mode of the fixture is activated. |
| | Microphone sensitivity level is set too low | Increase the microphone sensitivity of the built-in microphone |
| | Speaker placed too far away or lack of bass | Place your lighting effect closer to your speakers (or vice versa) and/or increase low frequency volumes. The microphone will not be triggered with high pitched sounds. |
| The beam output is very low | Dirty/dusty optics | Clean the lens and/or other optics with a dry or damp cloth |
| | Dimmer is not set to full output | Set all dimmer levels to 100% on your DMX console |
| Sometimes the DMX signal is lost and/or some fixtures are flickering / behaving odd sometimes | Faulty/broken DMX cables | Check your DMX cables for possible connection breaks and replace them if necessary. |
| | Power cable interference on your | Avoid installing the DMX and |

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| | | |
|--|---|---|
| | DMX signal | (high) power cables parallel to each other. |
| | No DMX terminator | Apply a DMX terminator at the end of your DMX-chain |
| | Signal loss or distortion in DMX values | Apply a DMX booster in your DMX chain after 32 fixtures or less. After a maximum of 32 fixtures the DMX signal needs to be refreshed. |
| The fixture does not respond to all DMX-channels | Wrong DMX channel mode | Check the DMX channel mode of the fixture. If the wrong value is set, change the channel mode to a different setting and try again. |

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Technical specifications

- Powerful and compact LED fixture with unique LED colourmixing system
- Slimline design, easy transport and storage
- Light source: 6x 15W RGBWA 5-in-1 LED chip
- Full output = 12.000 lux @1m
- Perfect colour mixing thanks to close placement of LED diodes
- Extensive colour palette, RGB colour mixing + white (cool white) + amber (warm white)
- Create amazing colour combinations and true pastel/warm colours
- High power light source for bright and intense projection
- Built-in colour macro's, automatic chase/fade shows and extensive control via DMX
- Fluent dimmers for each colour + fast strobe functionality
- S.L.S. (Signal Loss Setting) – Blackout or sound controlled mode when no DMX signal is detected
- DMX operation: 2, 3, 3 (RGB), 4, 5, 8 channels
- I.T.M. (Intelligent Temperature Monitoring), reduces light output to prevent overheating and controls the fan speed
- Double bracket installed, use the fixture as floorspot, uplighting fixture or install it to a T-bar or truss system
- Adjustable microphone sensitivity for music-controlled mode
- Menu display and buttons for easy adjustment of settings
- Low power consumption – High output – Long lifespan

Projection intensity:

- Red: 1500lux @ 1m
- Green: 3000lux @ 1m
- Blue: 3700lux @ 1m
- White: 4100lux @ 1m
- Full power: 12000lux @ 1m

Connectors:

- DMX: 3p XLR male and female
- Power: IEC power connector

Power:

- Voltage: AC100-240V 50/60Hz
- Power: 50W
- Fuse: F3AL 250V

Physical:

- dimensions: 170 x 170 x 90 mm
- weight: 1.8 kg

Included accessories:

- Power cable IEC to Schuko
- Power cable IEC to UK plug

Connectors and wiring schematics:

DMX-connections:

DMX-output

XLR mounting-socket:




DMX-input

XLR mounting-plug:



Electrical wiring:

| Cable | Pin | International |
|--------------|---------|---|
| Brown | Live | L |
| Blue | Neutral | N |
| Yellow/Green | Earth |  |

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