



## Welcome to Avolites New Diamond 9

We hope you are delighted with our new Avolites flagship console, here are a few tips and hints to get yourself up and running.

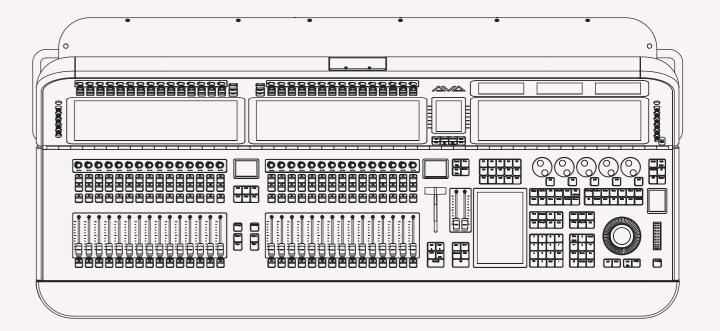
Since Avolites was founded 1976, our team has worked closely with the users of our products. With their input we have redefined our flagship Avolites Diamond experience for the next generation of shows.

Right from its inception, Avolites has always been a pioneer in the development of the integrated visual canvas. Now with our new hardware combined with our powerful software platforms, Titan and Ai, we are able to control not just lights, but integrate the control of lighting, video, generative content and special effects.

Designed from the ground up to power our proprietary Avolites Synergy software feature set, every component has been carefully chosen for its quality and precision to control the most demanding productions for years and decades to come. We believe the Diamond 9 will become the visual canvas console of its time.

Dory

Building on four decades of experience powering the most demanding shows, Avolites D9 is a dramatic evolution in production control.



DESIGNED TO PIONEER THE NEXT GENERATION OF SHOWS

Created in consultation with leading visual designers, and alongside expert industrial designers, D9 is ready for the next generation of ultimate shows and beyond. With vast screen real-estate, all-new controls, and unique media integration it intuitively combines control of all visual aspects of the show. Hand-crafted in London, built upon Avolites' heritage of quality and reliability.

CHECKLIST OF WHAT IS IN THE FLIGHT CASE

- Power Cable (powerCON TRUE1)
- Dust Cover
- 4 Pin RBW LED Desk Lamp x2
- External Monitor stands and clamps x 2 (Optional)
- Documentation
- Spare Parts Kit
- Warranty Registration

AVOLITES 3

# Transport & Storage

TEMPERATURE

Be careful when moving or lifting your Avolites desk. To avoid injury, a minimum of two people is required when handling the desk.

Before transporting, remove all cabling, ensure the keyboard tray is closed, return the screen back to home position using the push down latch, then protect the console using the provided dust cover. It is strongly recommended to transport the desk using the provided flight case.

The Avolites console must be protected from vibration during transportation. The console must be checked after transportation for damage.

Pay attention to the temperature and humidity during storage and transportation.

OPERATION

0 up to 40 Degrees (°C) (20% up to 90% relative humidity – no condensation)

STORAGE & TRANSPORT

-10 up to 50 Degrees (°C) (10% up to 90% relative humidity – no condensation).

Only use the device within its operating limits.

## General Safety Instructions

Place the console on to a stable and load-bearing surface only.

Do not place high powered radio devices on top of the console

Do not support yourself on the console, use the provided armrest only.

Do not place any heavy objects on top of the console.

Do not use excessive force on buttons, faders, knobs and switches.

Switch off the console using the power switch located on the rear if left unattended for a long period of time.

Shut down the console using the power button located under the arm rest, then switch off the power switch located on the rear and disconnect the power cable before cleaning the device.

Prevent liquids from entering the console.

Do not cover or block any ventilation holes. These are essential for the airflow within and will protect the device from overheating.

If the power cable or main plug power is defective, let a qualified technician replace this immediately.

Unplug the power cable to disconnect the power supply from electric voltage during thunderstorms.

Do not pull the Push Down Latch, this will damage the console and void the warranty.

IF ANY OF THE FOLLOWING OCCUR, PLEASE DISCONNECT THE MAIN POWER PLUG AND CALL YOUR LOCAL DISTRIBUTOR OR TECHNICAL SUPPORT TEAM

Ingress of liquids.

Console has been exposed to rain or high ambient humidity.

The console fell damaging the housing.

The console does not power on and none of the troubleshooting and quick start steps resolve the issue.

## Support

ONLINE MANUAL



VIDEO TUTORIALS



COMMUNITY





LOCAL & MANUFACTURER SUPPORT

EMERGENCY CONTACT

All Avolites product related manuals are available online and via the 'Tools' menu in the console. To view the online manual, visit: https://manual.avolites.com

Avolites offers a whole range of videos on how to use your product in the best possible way. Get tips and tricks from our experts on your product via our YouTube channel. To learn more, visit: https://www.youtube.com/user/avolitesvis

Share your knowledge and get help from other Titan users. A community can be stronger and better than the individual. Be part of the Avo community!

https://www.facebook.com/groups/Avolites/

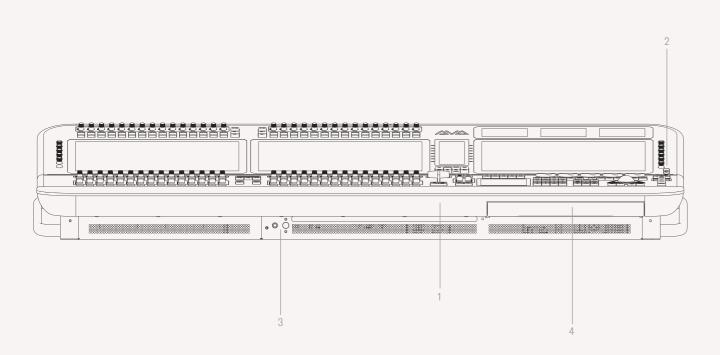
http://forum.avolites.com/

If you have any questions regarding your Avolites product, please contact your local Avolites distributor or reseller. If you require further assistance, please contact support@avolites.com. This email service is monitored during regular business hours Monday through Friday from 9am until 5pm (BST).

In the event of an emergency, please contact Avolites out of hours support on +44 (0) 77831 178 888. Please note, this number is strictly for emergency technical support only.

## I/O Panel

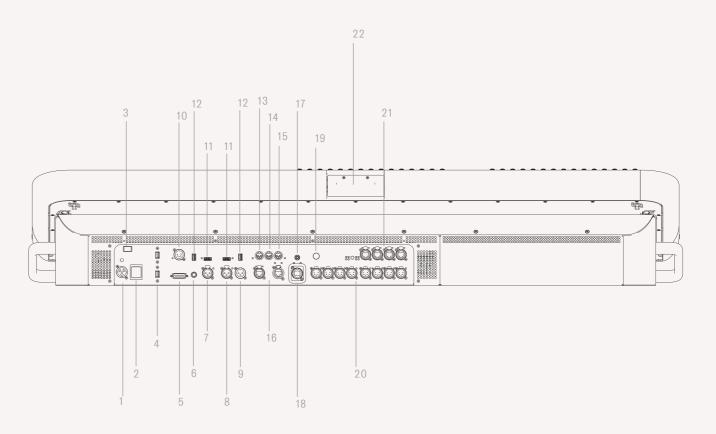
The D9 provides flexible connectivity so compatible devices and cables remain in place whatever vibration and knocks are thrown at them.



#### D9 Layout (Front):

- 1. ON/OFF SWITCH (INSIDE ARMREST)
- 2. USB 3.0
- 3. READING LIGHT
- 4. KEYBOARD TRAY

With backlit keys and responsive Cherry MX Low Profile key switches, the keyboard is beautifully concealed, repurposing the legendary Avolites drawer.



#### D9 Layout (Rear):

- 1. POWER INPUT
- 2. POWER SWITCH
- 3. UPS BATTERY INTERRUPT SWITCH
- 4. 2 X USB 3.0
- 5. GPI0
- 6. TRIGGER IN
- 7. AUDIO INPUT
- 8. LTC INPUT
- 9. LTC LOOP
- 10. DMX INPUT
- 11. 2 X HDMI
- 12. 2 X EXTERNAL MONITOR USB 2.0
- 13. MIDI IN
- 14. MIDI THRU

- 15. MIDI OUT 16. ETHERNET CONNECTIVITY
- 17. S/PDIF
- 18. FIBER CONNECTIVITY
- 19. WORK LIGHT
- 20. DMX OUTPUT
- 21. GIGACORE (LUMINEX) LED POWER & MODE INDICATOR

The onboard Gigacore 10 Luminex switch is validated against all common protocols in the AV industry including ArtNet, sACN, QoS and IGMP Snooping. The integrated switch works flawlessly with every fixture and device you connect to the network.

22. PUSH DOWN LATCH

## Quick Start

POWERING UP CONSOLE

POWERING DOWN CONSOLE

CONNECTING EXTERNAL MONITORS
(BRACKETS AND CLAMPS SOLD SEPARATELY)

COMPATIBILITY

1. Unpack the console.

2. Remove the dust cover.

3. Place the device along with the bottom half of the flight case onto a stable surface (recommended).

4. Using the push down latch raise the back panel.

1. Insert powerCON TRUE1 into the corresponding jack.

2. Fit console lights.

2. Connect the main power plug.

3. Turn on the red power switch located on rear of the console. Observe that the mains present neon is lit.

4. Press the power switch located under the arm rest.

5. Once the software has fully launched and the show file has loaded, you can then begin programming.

1. Press the power switch located under the arm rest.

2. Switch off the power button located on the back and remove powerCON TRUE1 from the corresponding jack when the console has finished powering down.

3. Return screen to home position using the push down back panel.

4. Apply dust cover.

TO ENSURE THE CONSOLE IS RUNNING THE LATEST SOFTWARE VERSION, PLEASE VISIT HTTPS://WWW.AVOLITES. COM/SOFTWARE.

You can enjoy a complete system mounting option by using the external monitor brackets to mount additional displays.

To take advantage of this, securely hand-tighten the provided brackets to the flight case. Place the VESA bracket in position on the back of the monitor and attach using the provided screws. Apply and tighten the monitor clamps to the brackets.

19 to 24-inch monitors weighing between 2.2kg to 5.5kg.

VESA 100 x 100 mm

# Care & Maintenance

The Diamond 9 console requires minor attention to keep in good working order.

WARNING

All repair and service work must be performed by qualified service technicians as live parts may be exposed when opening and / or removing coverings. Touching live parts may cause electric shock.

IMPORTANT

The intervals between maintenance may differ depending on the frequency of transport and the operational environment.

Disconnect power supply before cleaning.

Clean the surface and arm rest using anti-static wipes or spray with a dry cloth only.

Either use non-alcoholic disinfectant or a 70% alcohol 30% water mixture.

Prevent moisture build up near the edge of the screens as this may impair the touch sensor while it is wet. If the touch sensor is affected by moisture, use clean dry paper to dry out the junction between the top of the glass and the foam gasket, by sliding the paper in approximately 6mm and running it around the whole edge of the screen. This may need to be repeated twice with dry paper to get the desired result.

Check if the ventilation holes are blocked, they may need to cleared using a vaccum cleaner and soft brush.

Faders no longer require maintenance due to its roof tapered designed.

Dust cover should be utilised when the console is not in operation or when not stored in its flight case.

Depending on the environment, we recommend professionally cleaning the console once a year.

CLEANING

MAINTENANCE

# One Diamond 9 experience. Two different sizes.

D9-330

Designed from the ground up for seamlessly integrated control of all visual elements, with the finest materials and meticulous attention to detail, the Diamond 9–330 is the flagship visual canvas controller in our collection.





D9-215

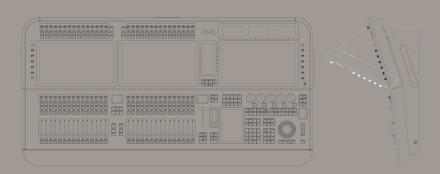
The same intuitive, integrated control but with a smaller footprint. The Diamond 9–215 is a more compact version of the flagship visual canvas controller in our collection.







### D9-330 Data Sheet



#### **Features**

CONTROL SURFACE

11-segment RGB LED level indicator

70 optical rotary touch sensitive playback

RGB halo indicator for each encoder

180 C&K playback function buttons with

3 x 4.3" 1000nits 800x480 preview touchscreens for media or workspaces

CONSTRUCTION

Panels machined from single pieces of

Comfortable armrest

Independent paging for each playback

Programming buttons all RGB backlit,

5 custom RGB backlit optical attribute

Dedicated level wheel, machined

T-Bar with 5 control buttons and a colour LCD status screen

Dual, motorised, touch-sensitive, master cue list fader control with 9 buttons

drawer, keys identical to program panel

panel articulation – 18 to 68 degrees from

#### Software

SOFTWARE PLATFORM

DMX CHANNELS PER DEVICE DMX CHANNELS PER SYSTEM

MAX FIXTURES

KEYFRAME EFFECT ENGINE

CUSTOM EFFECTS WITH ANY NUMBER OF KEYFRAMES

PIXEL MAPPING

PLAYBACK CONTROL

ENCODERS AND BUTTONS

EXTERNAL CONTROLE

TITAN NET

OUTPUT FORMATS BASE OS

#### Hardware

GPU

WEIGHT

CPU

SYSTEM RAM

UNIT DIMENSIONS (W X D X H)

POWER CONSUMPTION

OPERATING ENVIRONMENT

VOLTAGE

OPERATING TEMP 0-40C / 32-104F MAX HUMIDITY 95% RELATIVE NON-CONDENSING

**HEAT OUTPUT** 

INTERNAL UPS

### Connectivity

DMX 512

4 X 1GBE NEUTRIK ETHERCON, INTERNALLY SWITCHED & MANAGED 1 X QUAD OPTICALCON 1GBE LC CONNECTION 1 X 1GB ETHERCON, NETWORK 2 **NETWORK** 

OPTIONAL UPGRADE TO ADD: 1 X 10GBE CONNECTION TO OPTICALCON 1 X 10GBE NEUTRIK ETHERCON

DATA / PERIPHERALS

EXTERNAL DISPLAY

SMPTE

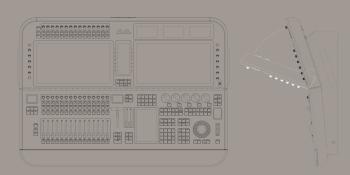
TRIGGER INPUTS

MIDI

AUDIO OUT MAINS POWER



## D9-215 Data Sheet



#### **Features**

CONTROL SURFACE

11-segment RGB LED level indicator

40 optical rotary touch sensitive playback

90 C&K playback function buttons with

3 x 4.3" 1000nits 800x480 preview touchscreens for media or workspaces

CONSTRUCTION

Panels machined from single pieces of

Comfortable armrest

Independent paging for each playback

Programming buttons all RGB backlit,

5 custom RGB backlit optical attribute

Dedicated level wheel, machined

T-Bar with 5 control buttons and a colour LCD status screen

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#### Software

SOFTWARE PLATFORM

DMX CHANNELS PER DEVICE

MAX FIXTURES

DMX CHANNELS PER SYSTEM

KEYFRAME EFFECT ENGINE

CUSTOM EFFECTS WITH ANY NUMBER OF KEYFRAMES

PIXEL MAPPING

PLAYBACK CONTROL

EXTERNAL CONTROLE WEB API, SMPTE, MIDI, DMX, S-ACN, GPIO

TITAN NET

OUTPUT FORMATS

BASE OS MICROSOFT WINDOWS 10 ENTERPRISE LTSC 64 BIT

#### Hardware

CPU

SYSTEM RAM

GPU

UNIT DIMENSIONS (W X D X H)

POWER CONSUMPTION

OPERATING ENVIRONMENT

**HEAT OUTPUT** 

VOLTAGE

OPERATING TEMP 0-40C / 32-104F MAX HUMIDITY 95% RELATIVE NON-CONDENSING

INTERNAL UPS

### Connectivity

WEIGHT

DMX 512

4 X 1GBE NEUTRIK ETHERCON, INTERNALLY SWITCHED & MANAGED 1 X QUAD OPTICALCON 1GBE LC CONNECTION 1 X 1GB ETHERCON, NETWORK 2 **NETWORK** 

OPTIONAL UPGRADE TO ADD: 1 X 10GBE CONNECTION TO OPTICALCON 1 X 10GBE NEUTRIK ETHERCON

DATA / PERIPHERALS

EXTERNAL DISPLAY

SMPTE

TRIGGER INPUTS

MIDI

AUDIO OUT MAINS POWER



# A Diamond history.

Since the birth of the company under a railway arch in 1976 in London, Avolites has believed in technology innovation, reliable components, quality finish and inspired design. A pioneer in the lighting industry, Avolites has paved the way to ever bigger, more demanding, and more immersive shows.

The diamond console heritage goes back to 1977 with the arrival of the 8100 console series. They were custom built and designed for the demands of touring. They used blue stamped fader panels, indented white lettering and wavy brushed aluminium side panels. Three styles were designed: a 72 way, 84-way and a 96-way model, all with a sloped frontage and separate inner panel construction. A classic Avolites design, this was much admired and established Avolites' flagship consoles as aspiring leaders in the industry.

Next, Avolites began to develop what became a true legend of its time and part of 'Rock & Roll' history: the QM series now with microprocessor technology for storing cues and sequences. In production from 1983 with various models it kept the fast Swap and Add of operation from the analogue 80100 series with the computerisation enabling speed of recording scenes to multiple playbacks each with a highly readable programmable electronic legend, hence the name QM (Cue Master).

This modern digital console put Avolites firmly on the with Avolites Graphics Tablet and riggers remote worldwide map of lighting control manufactures.

Strictly speaking, there was no Diamond I, it was called QM-Diamond, and launched in 1991, just after Avolites returned to private ownership from Carlton Television. The QM-Diamond was to become the most versatile lighting console of its time; its flexible design made it an LD's favourite for both theatre or installs and major Rock & Roll tours. The advanced digital design allowed for precise, accurate and repeatable control, as well as a new creative freedom for LDs to programme or control the most demanding shows of the time.

The Diamond II debuted at PLASA in 1993, followed soon after by the Diamond III. They were designed to meet the need to control large lighting rigs with multi-parameter instruments. They offered 1024 HTP or LTP channels, 100 pages of submaster playbacks (30/20 of which were submasters), 180 Penny & Giles motorised faders, 3,071 control channels, 6 full speed isolated DMX outputs, as well as ultra-smooth optical encoders, shape generator, fan mode and highlight functions, colour VGA outputs and 'Add' and "Swap" buttons on Masters and Channels. Both came with full size Qwerty keyboards and compatible

control. The Diamonds quickly became renowned for being the ultimate live performance consoles.

The Diamond IV (D4) Vision and Classic launched in October 2001, followed in 2002 with the Elite version. These were designed after intensive user research to address Lighting Designers requirements for fast, accurate and immediate control of intelligent and conventional fixtures, as well as DMX devices. To perform equally as well in live as well as preprogrammed shows or install environments where power and functionality in the minimum physical space was paramount. The Diamond 4's were stylish and had an aesthetically pleasing profile, intuitive to operate, with minimal operator fatigue and the ability to create the fastest, most cost efficient range of live or programmed shows with cutting edge technology

The NEW Diamond 9, flagship console of the new Diamond Collection, is the latest to join the legendary lineage of Avolites consoles bearing the Diamond name. Designed to power the next generation of shows, it is set to become the class leading console of its time. Yet again.

