Reinventing a legend.
Avolites Diamond 9.

Designed with visual Designers, for visual Designers.

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

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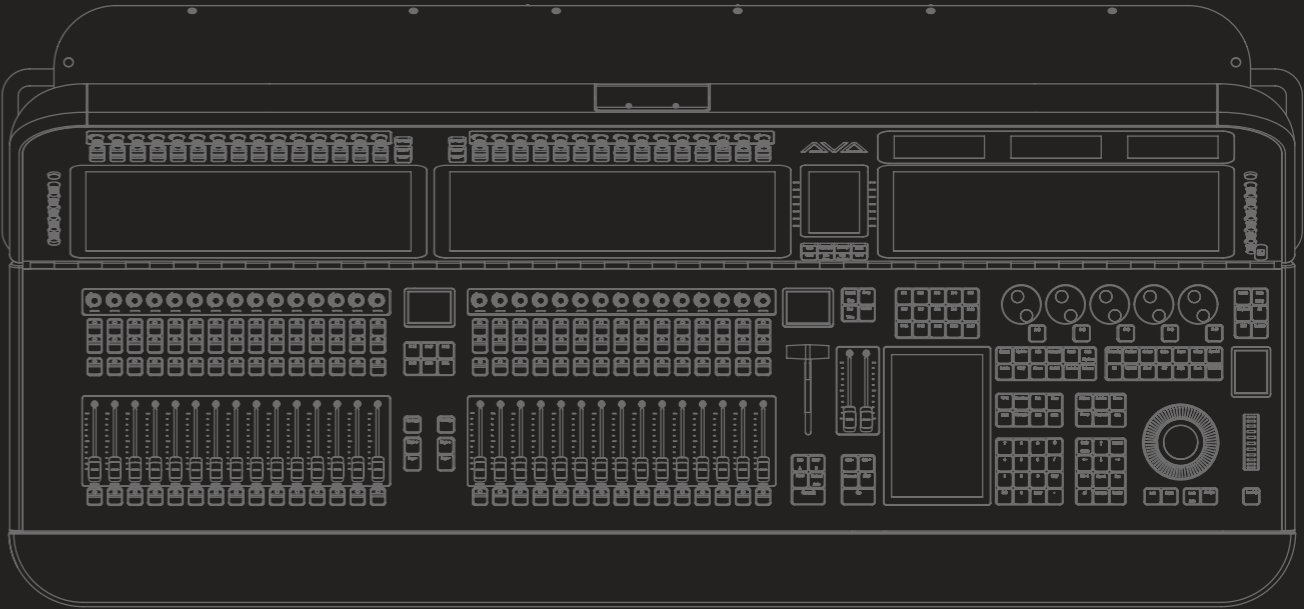
Right from its inception, Avolites has always been a pioneer in the development of the integrated visual canvas. Now with our new hardware combined with our powerful software platforms, Titan and Ai, we are able to control not just lights, but integrate the control of lighting, video, generative content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

T Wong

Paul Wong - Managing Director, Avolites

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.

HOW IT WORKS

This powerful, integrated system unleashes the creativity of lighting and video designers, providing ultimate control of the next generations of shows.

Ultimate sequence control.

The T-Bar delivers more refined control with even smoother manual fades. Paired with our unique Scene Master functionality it brings total professionalism to live creativity.

With its non-contact design, the fader remains as accurate as ever, even after years of use. The scene master function is complimented by a double-width Commit button and four further control buttons, plus a dedicated LCD screen for continuous status data.

Ultimate performance control.

THE FINEST TACTILE CONTROLS IN INDEPENDENT BANKS OF 15

Motorised and touch-sensitive Penny and Giles faders: Optical high-res rotary faders: Short-travel flash buttons with positive haptics for perfect timing.

INDICATOR COLOURS FOR FLAWLESS PERFORMANCE

Fader and Encoder level indicator colours can be defined to make it even easier to group and quickly recognise controls when it counts.

11-SEGMENT LEVEL INDICATOR ON EVERY FADER

RGB level indicator on every fader which follows the halo colour of the playback. Especially useful on rotary faders when swapping pages.

EVERYTHING IN ITS RIGHT PLACE

Additional Macro buttons with a dedicated screen, right in the playback section. Flash buttons under the faders. Perfectly aligned labelling. Page banks for every section.

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Ultimate 11 screen experience.

The most demanding shows require the most harmonious visual control experience. Up to 11 internal screens, with the option of 2 additional external screens, all powered by Avolites software, provides unrivalled focus and vision.

3 LARGE MAIN WORKSPACE SCREENS

With brightness adjustable up to 1000 nits, these high definition, high contrast, flush-mounted touchscreens ensure that data, visualisation and creative programming tools are always right where you need them.

3 X 4.3" PREVIEW SCREENS

Video previews right where you need them.

MACRO / EXECUTER SCREEN

Electronic labelling without occupying main screen space.

DEDICATED T-BAR SCREEN

No guesswork with permanent Scene Master status.

DEDICATED LEVEL WHEEL SCREEN

Instant live intensity data, no matter the selected attribute group.

VERTICAL EDITOR TOUCHSCREEN

Located in the programming panel, simplifying control of complex fixtures and media servers, as well as showing the main cue list status in an all-new display.

SOFTKEY MENU SCREEN

Moving the softkey menu system and prompt to this dedicated screen frees up workspace and unifies the layout of all main screens.

Ultimate programming surface.

Born out of over 40 years' experience in control, designed with eyes fixed firmly on the future, the D9's programming surface features: 3 media preview touchscreens, 5 + 1 attribute wheels, ergonomically designed controls, a T-Bar and illuminated programming keys. All are integrated with Avolites long serving Titan proprietary software.

THREE PREVIEW SCREENS

4.3" preview screens ideal for media, ensuring that the main screens remain uncluttered for maximum information density.

FIVE OPTICAL ATTRIBUTE WHEELS

Newly designed wheels with optical encoders and RGB led indicators, plus a vertical level-wheel puts more parameters than ever at your fingertips.

72 PROGRAM KEYS

Carefully selected Cherry MX Low Profile keys with RGB illumination provide optimal tactility with low fatigue for programming sessions.

OPTICAL TRACKBALL AND ARROW KEYS

Manipulate data and navigate interfaces more effortlessly than ever to optimise accuracy and creativity.

Say hello to our new keyboard.

You told us you wanted it – an integrated keyboard. With backlit Cherry MX Low Profile keys identical to those on the program panel, the keyboard is beautifully concealed, yet right where you need it.
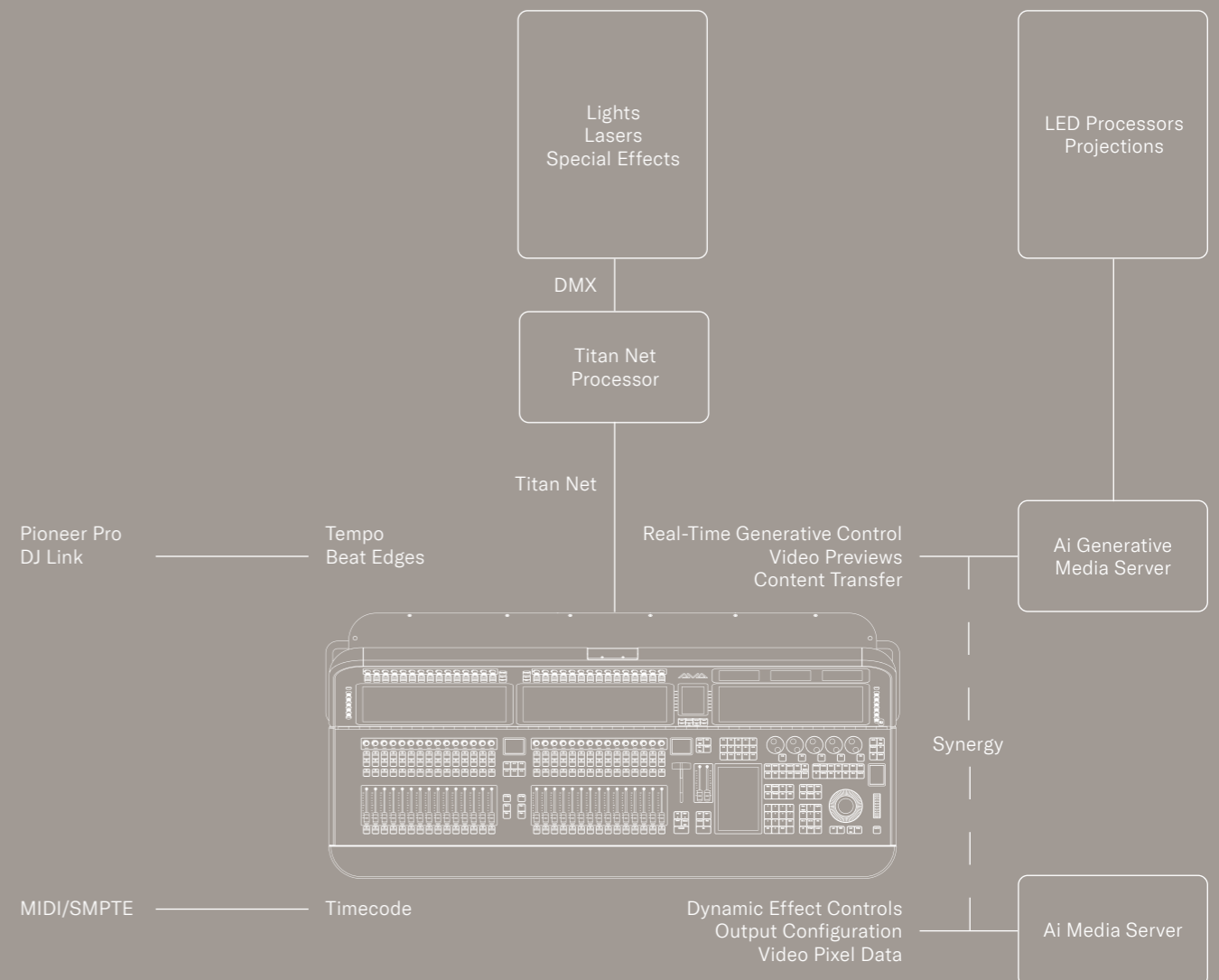
Ultimate video control with Synergy.

A POWERFUL FUSION OF SOFTWARE AND HARDWARE

The Avolites D9 console goes far beyond the aesthetics. It provides more intuitive media control integration for visual designers. Building on the ground-breaking Synergy software, released in October 2019, allowing seamless integration between media server and lighting control, the D9 brings this to your fingertips with intuitive design and layouts, ideal for media playback and integrated control.

THE HEART OF AVOLITES INTEGRATED SYSTEM SOLUTION

Avolites powerful, integrated system enables your control set up from lighting and video to networking and power distribution. All designed to work in perfect harmony with the D9 at the heart of the system. Unleashing the creativity of lighting and video designers, it provides ultimate control for the next generations of shows.

Lights
Lasers
Special Effects

LED Processors
Projections

DMX

Titan Net
Processor

Titan Net

Pioneer Pro
DJ Link

Tempo
Beat Edges

Real-Time Generative Control
Video Previews
Content Transfer

Ai Generative
Media Server

Synergy

MIDI/SMPTE

Timecode

Dynamic Effect Controls
Output Configuration
Video Pixel Data

Ai Media Server

AVOLITES

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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.
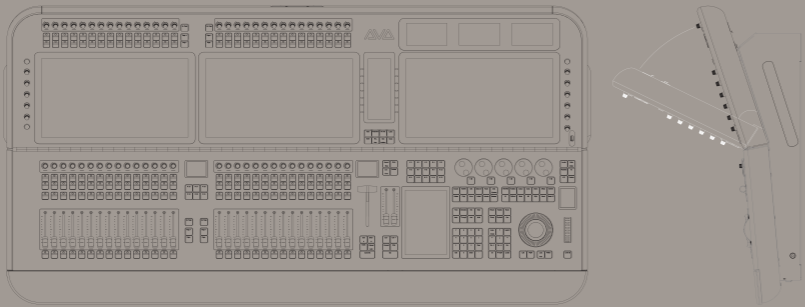

D9–215

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.

AVOLITES

AVOLITES

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D9–330 Data Sheet

Features

CONTROL SURFACE

30 + 2 motorised touch-sensitive Penny & Giles faders – designer fader cap

11-segment RGB LED level indicator alongside each fader

Halo RGB indicator for each playback

70 optical rotary touch sensitive playback encoders with push function - designer knob

11-segment RGB LED level indicator alongside each encoder

RGB halo indicator for each encoder

180 C&K playback function buttons with positive haptics for timing – designer button cap

3 x 15.6" 1000nits 1920*1080 capacitive touchscreens with adjustable brightness

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

Softkey menu touchscreen

Independent paging for each playback section

Programming buttons all RGB backlit, short travel Cherry® MX Low Profile switches

5 custom RGB backlit optical attribute encoders

Dedicated level wheel, machined aluminium with colour LCD status screen

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

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

7" dual-touch high-brightness 800*1280 programming screen

Full custom backlit QWERTY keyboard in drawer, keys identical to program panel

X, Y, Z, optical trackball

21 backlit Macro / Executor keys, all screen-labelled

Supports two additional HDMI 1920*1080 touchscreens

CONSTRUCTION

Panels machined from single pieces of solid aluminium

Comfortable armrest

Exclusively manufactured button caps, fader caps, encoder knobs, encoder wheels and level wheel

All screens flush-mounted

Infinitely adjustable hydraulic screen panel articulation – 18 to 68 degrees from horizontal

Software

SOFTWARE PLATFORM	AVOLITES TITAN	PLAYBACK CONTROL	USER DEFINED USING MULTIPLE FADERS, ENCODERS AND BUTTONS
DMX CHANNELS PER DEVICE	16,384		
DMX CHANNELS PER SYSTEM	32,768	EXTERNAL CONTROLE	WEB API, SMPTE, MIDI, DMX, S-ACN, GPIO
MAX FIXTURES	UNLIMITED		
KEYFRAME EFFECT ENGINE	CUSTOM EFFECTS WITH ANY NUMBER OF KEYFRAMES	TITAN NET	MULTI-USER & DMX EXPANSION
		OUTPUT FORMATS	ARTNET, S-ACN, DMX512
PIXEL MAPPING	VIDEO VIA SYNERGY, PIXEL ANIMATIONS FROM TITAN	BASE OS	MICROSOFT WINDOWS 10 ENTERPRISE LTSC 64 BIT

Hardware

CPU	INTEL I7-9700K 9TH GEN UP TO 4.9GHZ	POWER CONSUMPTION	MAX 400W
SYSTEM RAM	16GB	VOLTAGE	110 – 240V AC, 50-60HZ
GPU	AMD RADEON PRO WX-5100 4TH GEN	OPERATING ENVIRONMENT	OPERATING TEMP 0-40C / 32-104F MAX HUMIDITY 95% RELATIVE NON-CONDENSING
UNIT DIMENSIONS (W X D X H)	1380 X 640 X 455 MM (SCREENS UP), 1380 X 705 X 240 MM (SCREENS DOWN)	HEAT OUTPUT	MAX 1365 BTU/HR
		INTERNAL UPS	UP TO 5 SEPARATE 4-MINUTE PERIODS, FULLY SOFTWARE INTEGRATED
	54.3" X 25.2" X 17.9" (SCREENS UP), 54.3" X 27.8" X 9.5" (SCREENS DOWN)		
WEIGHT	68 KG / 150LBS		

Connectivity

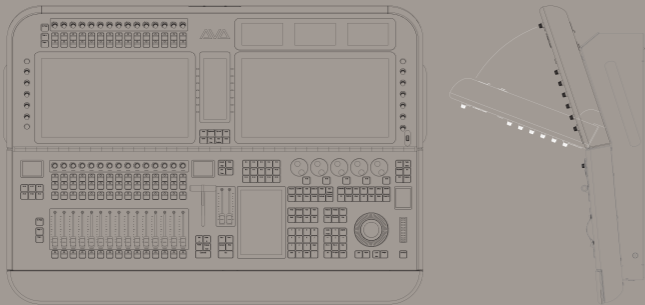|	
DMX 512	8 X NEUTRIK 5-PIN XLR, OPTICALLY AND GALVANICALLY ISOLATED WITH HALO ASSIGNMENT INDICATORS
NETWORK	4 X 1GBE NEUTRIK ETHERCON, INTERNALLY SWITCHED & MANAGED 1 X QUAD OPTICALCON 1GBE LC CONNECTION 1 X 1GB ETHERCON, NETWORK 2
DATA / PERIPHERALS	1 X USB 3.1 UNDER ARMREST 1 X USB 3.1 ON FRONT PANEL 2 X USB 3.1 BACK PANEL 2 X USB 2.0 ASSIGNED FOR EXTERNAL TOUCHSCREENS
EXTERNAL DISPLAY	2 X HDMI UP TO 1920*1080
SMPTE	1 X 3-PIN NEUTRIK XLR TRANSFORMER ISOLATED INPUT WITH SIGNAL INDICATOR PLUS 3-PIN XLR LOOP OUT.
TRIGGER INPUTS	GPIO 4 IN/4 OUT, ISOLATED, AND DRY CONTACTS ¼" JACK FOR FOOT SWITCH. DMX512 DEDICATED INPUT WITH INDICATOR AUDIO INPUT 3-PIN XLR WITH INDICATOR
MIDI	IN, THRU, OUT ON 5-PIN DIN WITH SIGNAL AND ENABLED INDICATORS USB MIDI SUPPORTED
AUDIO OUT	DIGITAL S/PDIF RCA
MAINS POWER	NEUTRIK TRUE1®

The Diamond 9 console comes with a 2-year systems manufacturer warranty.

AVOLITES

AVOLITES

D9-215 Data Sheet

Software

SOFTWARE PLATFORM	AVOLITES TITAN	PLAYBACK CONTROL	USER DEFINED USING MULTIPLE FADERS, ENCODERS AND BUTTONS
DMX CHANNELS PER DEVICE	16,384		
DMX CHANNELS PER SYSTEM	32,768	EXTERNAL CONTROLE	WEB API, SMPTE, MIDI, DMX, S-ACN, GPIO
MAX FIXTURES	UNLIMITED		
KEYFRAME EFFECT ENGINE	CUSTOM EFFECTS WITH ANY NUMBER OF KEYFRAMES	TITAN NET	MULTI-USER & DMX EXPANSION
		OUTPUT FORMATS	ARTNET, S-ACN, DMX512
PIXEL MAPPING	VIDEO VIA SYNERGY, PIXEL ANIMATIONS FROM TITAN	BASE OS	MICROSOFT WINDOWS 10 ENTERPRISE LTSC 64 BIT

Hardware

CPU	INTEL I7-9700K 9TH GEN UP TO 4.9GHZ	POWER CONSUMPTION	MAX 380W
SYSTEM RAM	16GB	VOLTAGE	110 - 240V AC, 50-60HZ
GPU	NVIDIA QUADRO	OPERATING ENVIRONMENT	OPERATING TEMP 0-40C / 32-104F MAX HUMIDITY 95% RELATIVE NON-CONDENSING
UNIT DIMENSIONS (W X D X H)	995 X 640 X 455 MM (SCREENS UP), 995 X 705 X 240 MM (SCREENS DOWN)	HEAT OUTPUT	MAX 1297 BTU/HR
	39.2" X 25.2" X 17.9" (SCREENS UP), 39.2" X 27.8" X 9.5" (SCREENS DOWN)	INTERNAL UPS	UP TO 5 SEPARATE 4-MINUTE PERIODS, FULLY SOFTWARE INTEGRATED, WITH BYPASS SWITCH
WEIGHT	54 KG / 120 LBS		

Connectivity

DMX 512	8 X NEUTRIK 5-PIN XLR, OPTICALLY AND GALVANICALLY ISOLATED WITH HALO ASSIGNMENT INDICATORS
NETWORK	4 X 1GBE NEUTRIK ETHERCON, INTERNALLY SWITCHED & MANAGED 1 X QUAD OPTICALCON 1GBE LC CONNECTION 1 X 1GB ETHERCON, NETWORK 2
DATA / PERIPHERALS	1 X USB 3.1 UNDER ARMREST 1 X USB 3.1 ON FRONT PANEL 2 X USB 3.1 BACK PANEL 2 X USB 2.0 ASSIGNED FOR EXTERNAL TOUCHSCREENS
EXTERNAL DISPLAY	2 X HDMI UP TO 1920*1080
SMPTE	1 X 3-PIN NEUTRIK XLR TRANSFORMER ISOLATED INPUT WITH SIGNAL INDICATOR PLUS 3-PIN XLR LOOP OUT.
TRIGGER INPUTS	GPIO 4 IN/4 OUT, ISOLATED, AND DRY CONTACTS ¼" JACK FOR FOOT SWITCH. DMX512 DEDICATED INPUT WITH INDICATOR AUDIO INPUT 3-PIN XLR WITH INDICATOR
MIDI	IN, THRU, OUT ON 5-PIN DIN WITH SIGNAL AND ENABLED INDICATORS USB MIDI SUPPORTED
AUDIO OUT	DIGITAL S/PDIF RCA
MAINS POWER	NEUTRIK TRUE1®

The Diamond 9 console comes with a 2-year systems manufacturer warranty.

Features

CONTROL SURFACE

15 + 2 motorised touch-sensitive Penny & Giles faders – designer fader cap

11-segment RGB LED level indicator alongside each fader

Halo RGB indicatorfor each playback

40 optical rotary touch sensitive playback encoders with push function - designer knob

11-segment RGB LED level indicator alongside each encoder

RGB halo indicator for each encoder

90 C&K playback function buttons with positive haptics for timing – designer button cap

2 x 15.6" 1000nits 1920*1080 capacitive touchscreens with adjustable brightness

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

Softkey menu touchscreen

Independent paging for each playback section

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

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Full custom backlit QWERTY keyboard in drawer, keys identical to program panel

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Supports two additional HDMI 1920*1080 touchscreens

CONSTRUCTION

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All screens flush-mounted

Infinitely adjustable hydraulic screen panel articulation – 18 to 68 degrees from horizontal

AVOLITES

AVOLITES QM 8100

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 8100 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 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

with Avolites Graphics Tablet and riggers remote 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 pre-programmed 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 built-in.

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.

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