



TOTAL VISUAL CONTROL
FROM ROCK TO OPERA

POWERED BY
AVOLITES
titan

LIGHTING CONTROL



Sapphire Touch



Sapphire Touch Wing



Arena



Tiger Touch II



Tiger Touch Fader Wing



Quartz



Titan Mobile



Mobile Fader Wing



Titan One



Titan Net Processor



Rack Splitter



Truss Splitter

DIMMING CONTROL



ART2000 T4



ART2000TV & Film

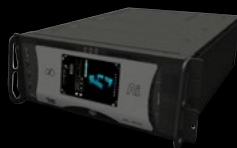


ART2000i Install



Power Cube

MEDIA CONTROL



Infinity EX



Ai S Series



Sapphire Media Console



Sapphire Media Wing



MSC-1



Licence Keys

Designed and Manufactured in the UK
Full product information can be found at www.avolites.com

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Avolites
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Park Royal, London
NW10 7XL
UK

SAPPHIRE TOUCH



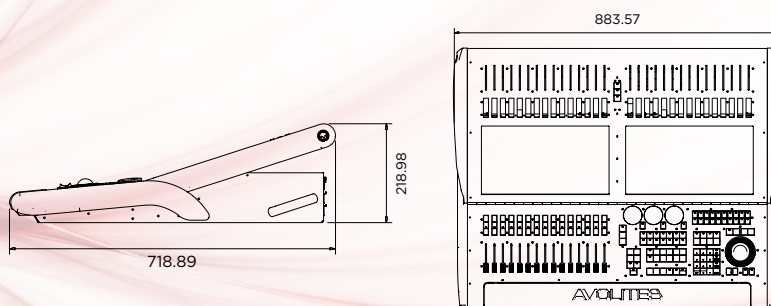
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Performance engineering for instant live access

The Sapphire Touch is high performance, with more submasters, more flash and executor buttons, and the power to control the larger, more challenging shows.

- 45 touch sensitive, motorised, automated master playbacks.
- Massive wide screen programming windows.
- Fast, live and hands on attribute controls.
- Unique Tricolour illuminated tracker ball with Z axis control to give fast control of distance related attributes – zoom, iris and focus.
- 8 Physical DMX, up to 16 over ArtNet or streaming ACN – 8192 channels.
- Built in UPS battery back-up
- 100% brighter, vibrant 15.6" touch screens.
- Dual Ethernet port.

- Direct SMPTE in.
- Supports Titan Network Processors for DMX expansion up to 64 universes.
- Dedicated theatre cue stack control.
- Huge programming surface – Capacity for 2 external touch screens/wings.
- 20 programmable macro buttons.
- Screen articulation.
- Connectivity with Sapphire Touch Wing and Sapphire Media Wing.
- Expandable fixture library for over 14,000 devices.
- MIDI in, out and through.
- Trigger inputs.
- Compatible with Titan Remote.
- Go to www.avolites.com for more information.



ARENA



Titan Network Switch*

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More live control than ever before...

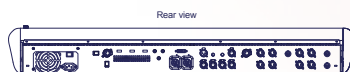
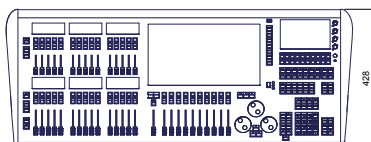
The Avolites Arena is the ideal desk for festivals, theatres and anywhere that a larger control surface is required. It combines the popular interface of the Tiger Touch II with more live control than ever before.

Alongside the vibrant main display, a second touch screen provides an additional workspace window, also labelling the adjacent macro buttons and rotary pots. These fully assignable playback encoder pots, allow intuitive control of channels and effects. The six LCD screens display electronic legends for 30 faders, for speedy access to all your playbacks, fixtures and palettes.

A brand new optical output means the Arena is equipped for fibre connections, with no signal loss over long distances, from front of house to the stage – essential in large and outdoor venues.

Offering seamless Multi User compatibility, the Arena can be used as master, back-up or extra programming surface, considerably cutting your programming time by allowing multiple Titan programmers to work simultaneously, before the main console takes charge.

- 40 precision playback faders in three pageable groups.
- 20 programmable macro executor buttons
- 3 metal shaft optical attribute encoders
- 4 optical playback encoder pots.
- 15.6" vibrant main touch screen with brightness control.
- 7" vibrant secondary touch screen.
- 6 mono LCD screens for digital fader legends.
- UPS battery back-up
- New six-position articulation stand
- Ergonomic trim and carry handles
- Robust stainless and zinc treated steel construction – built for life on the road
- Includes 4-port managed Gigabit network switch
- OpticalCON Stage link output, with an optional second link
- 8 physical 5-pin XLR opto-isolated DMX out, up to 16 universes over ArtNet or streaming ACN – total of 8192 console channels.
- Compatible with Titan Net – up to 64 universes, total of 32,768 system channels.
- 4 Ethercon Gigabit primary network connection with a battery maintained managed switch supporting Titan Net, ArtNet and streaming ACN.
- 1 Ethercon Gigabit secondary Network connection for Titan Net, ArtNet and streaming ACN.
- 1 standard OpticalCON stage link output, to connect to industry standard network switches with optical support.
- SMPTE Timecode/LTC input 3-pin XLR (transformer isolated).
- Trigger inputs on ¼" jack, suitable for foot switches.
- Audio in on stereo ¼" jack for Audio Triggering.
- Headphone 3.5mm jack conveniently placed on the front panel.
- 4 USB3 ports – 1 front, 3 rear.
- DVI-D for external display.
- 2 3-pin XLR dimmable lamp connectors.
- MIDI in, out and thru.
- Compatible with Titan Remote (Wi-Fi access point required)
- Optional extras: Flight Case, Dimmable Lamp x2, Cover
- 1072mm (42.2") wide by 428mm (16.85") deep by 150mm (5.9") high



Go to www.avolites.com for more information

*Optional Optical Titan Network Switch – Details p.9

TIGER TOUCH II



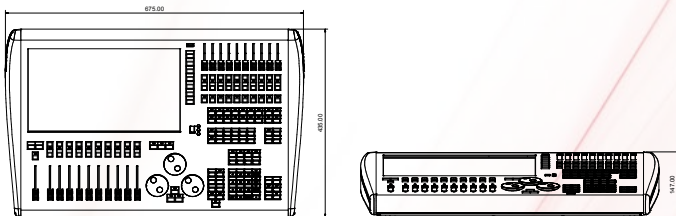
POWERED BY
titan

The most specified Titan console

Now featuring a vibrant, 100% brighter touch screen, more powerful processor, and faster graphics engine, the Tiger Touch II is the most specified Titan console.

- Live 'hands on' and Cue List control.
- 100% brighter, vibrant 15.6" touch screen.
- 4 Physical DMX, up to 16 over ArtNet or streaming ACN – 8192 channels.
- Supports Titan Network Processors for DMX expansion up to 64 universes.

- 20 submasters for Cues, Cue Lists and sequences.
- Show file compatibility with Titan console range.
- 10 direct Macro buttons and Macro library.
- Support of ArtNet, CITP and streaming ACN.
- Expandable Fixture library for over 14,000 devices.
- Powerful processor, faster graphics, SSD drives and UPS fitted.
- Conveniently located front panel mounted USB
- Direct SMPTE in.
- Trigger inputs.
- Compatible with Titan Remote.
- 30kg in flight case
- Go to www.avolites.com for more information.

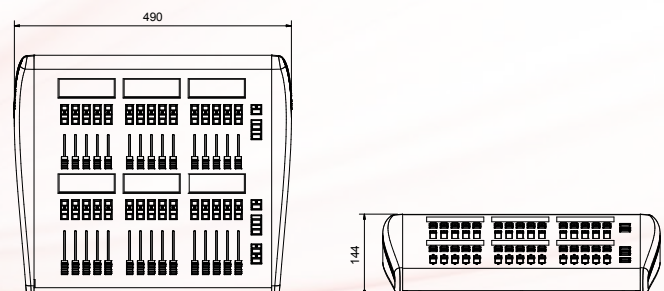


Tiger Touch Fader Wing

Expand your control surface with 30 additional faders for instant access to all of your playbacks, fixtures and palettes. Programmable macro buttons and independent paging control make for intuitive operation of world-class shows. Each fader has an electronic legend on a back lit LCD.

- 30 precision playback faders
- Each fader electronically labelled with an LCD screen
- Independent paging control for each row of 15 faders
- 60 user configurable flash or solo buttons
- 2 programmable macro buttons.

- Independent pages for each row of faders
- Also compatible with Expert Pro and Sapphire Touch.



QUARTZ



POWERED BY
titan

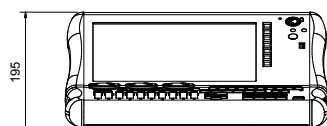
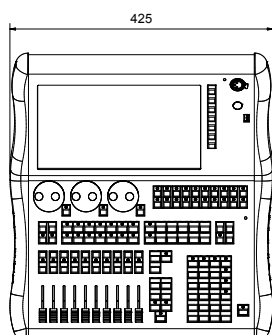
The full power of Titan, anywhere...

Quartz is the newest addition to the Titan Mobile family, complete with on-board processing and a bright, vibrant 12.1" screen, in our smallest full-featured console. Super compact, measuring only 42.5cm wide, the Quartz is the ideal companion for all your lighting projects, from touring and festivals to clubs and one-offs.

Featuring the same high quality faders and hardware you've come to expect from Avolites, the Quartz can go anywhere you can, ideal for life on the road.

Offering full compatibility with Multi-user, the Quartz is also perfect for use as a back-up or extra programming surface, cutting your programming time. Quartz is ready to benefit from multi band Sound to Light Triggering functionality, offered in Titan version 9.

- Super compact form – just 42.5cm wide
- 4 physical DMX XLR-5 connectors
- 16 DMX universes from the console – 8192 channels
- Compatible with Titan Net - up to 64 universes
- Gigabit Network port for Titan Net, Artnet and streaming ACN
- Built in MIDI input
- 10 precision playback faders
- 3 high quality optical encoders
- 20 programmable executor buttons
- Bright and vibrant 12.1" angled touch screen with brightness control
- Supports multi band audio triggering
- Headphone output
- Robust construction – built for life on the road
- Conveniently located front panel mounted super speed USB3 port
- Expandable with Titan Mobile Wing through dedicated USB port
- Compatible with Titan Remote
- Optional extras: Flight Case, Portable Travel Case, Dimmable Desk Lamp, Cover
- 425mm (16.73") wide by 466mm (18.35") deep by 194mm (7.64") high
- Weight console 8.0kg Weight in Flight case 16.75kg
- Go to www.avolites.com for more information.



TITAN MOBILE & MOBILE FADER WING

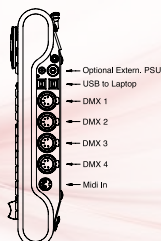
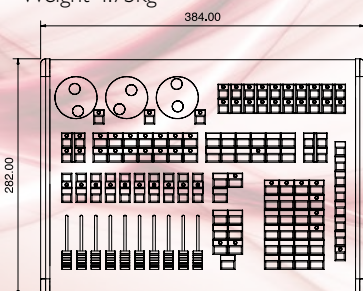


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The power of Titan in its most concentrated form!

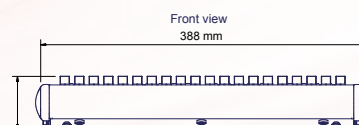
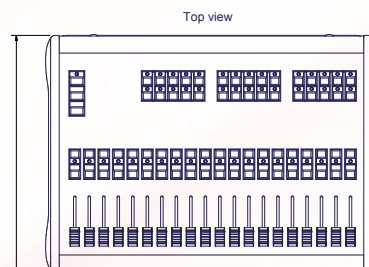
Avolites Titan Mobile binds the awesome power of Titan software with a compact and lightweight unit that connects to your laptop to produce a fully featured moving light control system. Small enough to carry as hand luggage, large enough for complex shows. Shows transferrable to and from any other Titan console.

- 10 Playbacks with assignable controls.
- 20 direct access workspaces, macros and executors.
- 4 Physical DMX, up to 16 over ArtNet or streaming ACN – 8192 channels.
- Supports Titan Network Processors for DMX expansion up to 64 universes.
- USB powered – no need for mains connection
- Fast, live and hands on attribute controls.
- Fast to programme and easy to use.
- Weight 4.75kg



Fader Wing

- 20 precision playback faders
- 30 programmable executor buttons
- Paging control
- Dedicated work space window in Titan software
- USB powered - no need for mains connection
- Weight 6.7kg
- Go to www.avolites.com for more information.



*Laptop not included

*Laptop not included.

TITAN ONE



Titan One is the cost effective solution for your entry level lighting application

**Fast and Intuitive control of intelligent lighting,
Dimmers and LED effects from one on screen console.**

The Titan One USB DMX dongle allows the user to output one line of DMX with the full functionality of Avolites Titan Software.

Access powerful features such as Pixelmapper, Quicksketch, Media Clip Select, Attribute Control, Blades and Shape Generator. Titan One allows you unlimited usage which gives you uninterrupted programming and playback time.

**Global Pricing:
£70 €90 \$110
Educational discounts available.**

- Live music events – use the on-screen faders or touch screen flash to control and interact with your performance. Live, timed, Picture Palettes enable live busking at your fingertips.
- Corporate events – Titan One provides centralized control of media servers and multi-cell LED fixtures. Display your client's logo instantly with the Pixel Mapping tool.
- Museums, Retail and Son et Lumieres all run fully automated, scheduled playback from the time of day cue control.
- Theatre and Drama – benefit from 'Move in Dark', Hot Key 'Go Button' control and fast plotting via keyboard syntax.
- Clubs and bars – easy to use visual programming. Control any fixture with the huge, built in fixture library.
- TV and video studios - Live Edit and Update as well as Channel Output Monitor produces seamless production workflow.
- On board immediate context sensitive help for whenever you need a little assistance.
- Technicians tool – Test, Address and Fault Find your rig from backstage or the warehouse. Titan One provides a full functionality diagnostic tool.
- Allows you to edit on the move, then run the performance from any Titan system.
- Go to www.avolites.com for more information.



Titan Net Processor

The backbone of your system. Unleash the power of your Titan system with the Titan Net Processor. TNP not only increases the capacity of your system to up to 64 universes, but also offers seamless integration with Titan Net back up, and spreads the processing load for heightened reliability of today's channel intensive shows.

- Connects to any Titan console.
- 16 universes processed per TNP.
- 8 DMX outlets, protected by optical and galvanic isolation.
- 2 Gigabit Ethernet ports to output ArtNet or streaming ACN front fitted as standard. Move to rear option.
- Bright high resolution touch sensitive LCD screen for fast local control.
- Two USB sockets at the front.
- Built in UPS, 5 x 4 minute sessions without charging.
- 100-240v AC mains input range.
- Processing unit is housed in a shock mounted frame.
- Rugged steel enclosure, 19" rack mountable.
- Distributed Pixelmap rendering engine.
- Network Time Synchronisation.
- Fast, low latency for live applications.
- Go to www.avolites.com for more information.

Optical Titan Net Switch



For when reliability counts. The Optical TNS is perfect for connecting FOH to stage using Cat5E Ethernet cables for distances under 100m, and an Optical input for fibre connections over distances exceeding 100m. The 1 Gigabyte network switch also features a built in UPS to ensure the stability and resilience of your show setup.

- 1 OpticalCON optical input
- 6 Ethercon outlets with status indication above the outlet for easy status checking
- Integrated LCD display for easy configuration and status reporting
- Built in UPS - Maintain the network during mains outages
- Titan Net integration with Avolites Titan Consoles (v10), status and topology information and network warnings such as lost connections, bad network speed or faulty cables. Confirm status info from your console.
- Can be used by direct connection to the Avolites Arena console or in pairs to any Avolites Titan console.
- Connect FOH to the stage with Cat5E Ethernet cables, up to 100m dependent on cable quality

- The Optical port connection can be used to bridge distances larger than the 100m Ethernet, depending on the fibre used this can be 225m-550m (multimode) or 10Km (single mode)

Switch capacity

- Ports can usable at 10,100 and 1000 Mbps
- Bandwidth: 20 Gbps full duplex
- Network latency @1000Mbps: Less than 4 μ s

Front

- 1 OpticalCON optical input at the front (850nm multimode as standard, single mode optional)
- 6 Ethercon outlets with status indication above the outlet for easy status checking
- 1 status indication for rear mounted EtherCON outlet

Rear

- 1 Ethercon outlet with status indication above the outlet for easy status checking
- IEC mains inlet compatible with the 'IECLock™' connector
- 1U height x 270mm deep

TITAN FEATURES

Key Frame Shapes

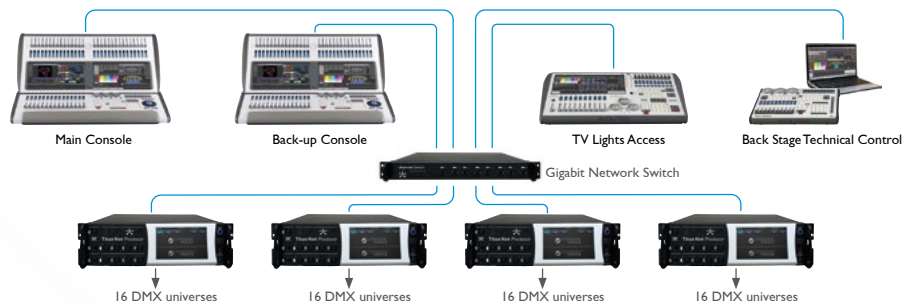
Introducing the amazing new Key Frame Shapes, providing the capability to create spectacular effects from scratch. Using palettes or the programmer to define the frames, and powerful tools such as transition curves, phase and spatial direction, it is possible to create radically different looks for each channel in seconds. Synchronise these together for dramatic impact. Integrate Pixel Mapper effects with Key Frames using one simple interface.



Multi User Networking

Connect multiple consoles together to work collaboratively or independently on the same show. A show can have multiple users, each with their own User Settings, Handle Worlds and Selected Key Profiles. With Multi User, consoles can still be used as backups.

Backstage techs can exchange, reset or fault find on fixtures, or even patch in floor packages, without interrupting programming. Palettes made or edited on one console automatically update to other connected consoles.

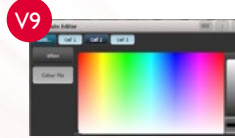


Networking of the outputs using the TNP increases system capabilities to up to 64 DMX universes, catering for even the largest world class spectacles. All of this can be used in conjunction with Titan Remote!



Unmatched Pixel Mapping capabilities

The industry's best pixel mapper allows complex multi-layer effects made in record time, across all fixture groups, as if they were one entity. Create and animate pre-programmed or custom content using Avolites' unique Quicksketch tool and image import. Use Gradient Fill to create smooth, soft edge transitions and exciting layered effects, now even quicker using cross-layer copy and move functions.



RGBW, WWCW, and ARGB colour mixing and Pixel Mapping

Get maximum punch and more accurate colours from your LED fixtures, thanks to new, four-channel pixel mapping and colour mixing.



New Theatrical Functions

MIDI Show Control allows the show to be run by the stage manager using Q-lab. Expansions to Titan's tracking now make it possible to track changes forwards and backwards. Cue lists now offer cue-only changes, and you can filter data in cue view to show only relevant information. There are also lots of new theatre syntax shortcuts.



Align

Effortlessly copy values across fixtures, either in a recurring pattern or a smooth fade.



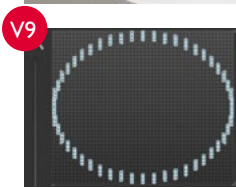
Titan Remote

For fast fixture focusing or letting someone else update palettes while you update show data. Program edit or play back cues lists or sequences. Works as a separate networked console, giving you all of the facilities and tools of Titan Version 8.



Times on Autoloads

Fade in cues, chases or lists using times specified in cue list.



Sapphire Track Ball Assign

Freely assign attributes to X, Y and Z axes.

Group Layout Auto-Arrange

New tools for quickly arranging fixtures in rectangular, circular and triangular layouts, when moving all fixtures or a selection.

Audio Triggering

Trigger show content using seven-band audio triggering. (Quartz & Arena only)

Block Pixel Effect

Creatively inhibit running pixel effects.

Offset

Set an offset for any attribute of any fixture to fix common issues such as incorrectly rigged fixtures. This will save you reprogramming all of your palettes. This can be updated via locate, in the patch view or by editing a palette and applying to the fixtures. The offset will then be applied to the fixtures for all palettes until reset.

Global Palettes

Global palettes are importable between shows, and allow users to apply information universally to all fixtures possessing intensity, colour, or pan and tilt attributes. When imported, Global Palettes will match these attributes across all fixture types, saving you from having to recreate the palettes.

Nested Palettes

Create palettes which reference information from another palette. When the originals are updated, they will also update the nested palette.

Convert and stack cues

Quickly convert a single cue into a cue list or chase by recording another cue on top. Easy to set Record Masks ensure that you only record what you want.

Record palettes using Capture visualisation software.

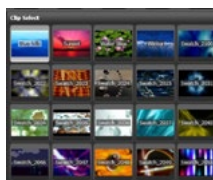
New 'Capture Polar' fusion with Titan software allows creation of position palettes within the visualiser, then record them onto the console.

Patched fixtures on the console will be automatically made available in Capture with correct information for placement within your rig. 3D screenshots can be set as picture legends.



Show Library

The central point to access any item within your Titan show. All show elements can be searched or filtered using the quick filter, with each element appearing in page order for easy grouping. You can un-assign items rather than deleting them, so you never lose that all important cue which allows you to use the show library as a cue store.



Clip Select

Video Media Integration with instant multilayer patching and Video Clip Selection by image preview. For servers supporting CITP.



Move in Dark and Tracking

Powerful theatrical tools Move in Dark and optional Tracking can all be set and edited from the cue list view.



Group Intensity Masters

Fast control of entire groups of fixtures. Balance group intensities for TV or film or increase all Beam lights and reduce all washes on your live production.



Show Import

Quickly create new shows from the best parts of your past productions.



Set List

Cue pages can now follow the shows running order – no matter how late you are given the set list. Display helpful notes like songs, follow spot colours or operator cues.



Exchange Mapping

Fixture exchange is revolutionised with a unique visual, Attribute Mapping System. Customise any fixture exchange to fit your needs; for example, old Gobo 1 to new Gobo 3.



Keystone and Blade control

Control Keystone or Blades with intuitive graphical workspace.

Go to www.avolites.com for more information.



THE ART OF DIMMING



Avolites ART Dimmers
Dimming, Mains and Data Distribution

**TOTAL VISUAL CONTROL
FROM ROCK TO OPERA**

ART2000 T SERIES



Touring Dimmers

Providing a complete solution to Dimming, Moving Light Power and Data distribution.

No need to have separate mains distribution or DMX splitters making set up times faster and lowering the number of individual components needed to put a show together. The ART2000 controls up to 48 individual channels using four plug-in modules of 12 channels each.

The available modules types are:

- 16amp 12 channel continuously rated dimming module with 250µs rise time and local controls.
- 16amp 12 channel switch module for powering moving lights or other equipment.
- 16amp 12 Channel Contactor module, allowing remote switching of ballasted fixtures.

- 48 channels at 16amps per channel
- Channels can be specified as dimmable, manual switch or contactor
- Excellent noise suppression with 250µs chokes
- 100% duty cycle
- Single Pole and Neutral Disconnect breakers are available
- C-type breakers allow for high inrush currents
- Three Phase and Single Phase operation (requires option)
- Individual faders for each channel for use as channel test, scene setting or for controlling the twelve on-board memories
- Analogue Volt & Amp meter as standard. Digital combined V&A meter optional.



ART 2000 T2 24 x 16A



ART 2000 T4 48 x 16A ST18

ART2000TV SERIES



ART 2000TV T4 12 x 63A

ART 2000TV T4 24 x 32A

Film and TV Dimmers

The ART2000-TV range has been developed to meet the growing and changing demands of the television, film and industrial show and exhibition lighting, where the use of dimmable fixtures is becoming an increasingly popular, cost effective method of lighting these specific environments.

Within the ART2000 TV T4 range there are two channel capacities, 24 x 32amp, 12 x 63amp and 14 x 16amp. The channel breakers are type C allowing for high inrush current associated with the larger capacity luminaires. Both channels sizes are continuously rated at 40 degrees C ambient, and use custom made noise suppression chokes with a rise time of 240µs.

The direct output panel for the 32A channel has 24 x Ceeform 32A single phase connectors.

8 x 7pin Ceeform 32A 3 phase 3 neutral connector in parallel to each 3 channels can be added as an option.

This feature is particularly suitable for sub-distribution on set, thereby reducing cabling runs and cost.

The direct output panel for the 63A channel has 12 x 63A Ceeform single phase connectors fitted.

The ART2000 TV system can also be fitted with Earth Leakage Breakers that can be individually disabled per bay by the user; a "No Volt Return" circuit assures that the RCB function is maintained after each power cycle or re-hire, therefore adhering to the future recommendation of the BS7909 standard for temporary mains distribution systems.



ART 2000TVT4 48 x 16A ELDC

The mains input can be on Single Pole Connectors such as Powerlock, Camlock and BAC with an optional Loop out.

The 'Load Check' indicators for each dimmable channel give a positive indication that a load is present and the local test fader on each dimmer channel ensure that you can easily check the connected load without having the use of a console.

The design incorporates full monitoring and status feedback via the backlit LCD display. Static state

environments are catered for using the front panel control faders. Further 12 memories can be recorded for later replaying either as a simple show in the event a console is not available.

Other features include full DMX patch and merge (2 DMX lines), dimmer curve and limit selection per channel, power OK indicators. Analog Volt and Amp metering or optional Digital metering.

- ELDC breaker system option available

Avolites Film and TV dimmers have been used on The Harry Potter series, The Lord of the Rings, Inception, James Bond, Game of Thrones, Mission Impossible, and many more...

POWER CUBE



A complete Dimming, Mains and Data Distribution Solution in one box

The compact box with proven ART2000 technology is quick to set up. It boasts 12 dimmer circuits at 10amp each, 6 combined dimmer and fixed mains.

- Dimmer and distribution channels – 10A C type ABB breakers
- Distribution channels 16A C type ABB breakers (5 - 10x I nominal inrush current)
- Captive Mains tail of 1.2m H07R 5x 10mm² fitted with a 63A 5 pin Cee connector
- Mains supplies either 63A 3phase+N TN-S or 63A single Phase +N
- Mains inlet breaker 63A D type ABB breakers (10 - 15x I nominal inrush current).
- Three individual single phase 63A 30mA residual current breakers to protect operators. Each RCB protects one phase, therefore increasing the selectivity of the RCB protection. (BS7909 requirement).
- Mains breaker is a four pole unit that also protects the Neutral wire which is important in case of single phase operation.
- Socapex or Harting output connectors available
- Flight-case and dimmer provide for easy storage of this cable

ART 2000i SERIES



ART 2000i 24 x 16A



ART 2000i 12 x 16A & 6 x 32A

Install Dimmers

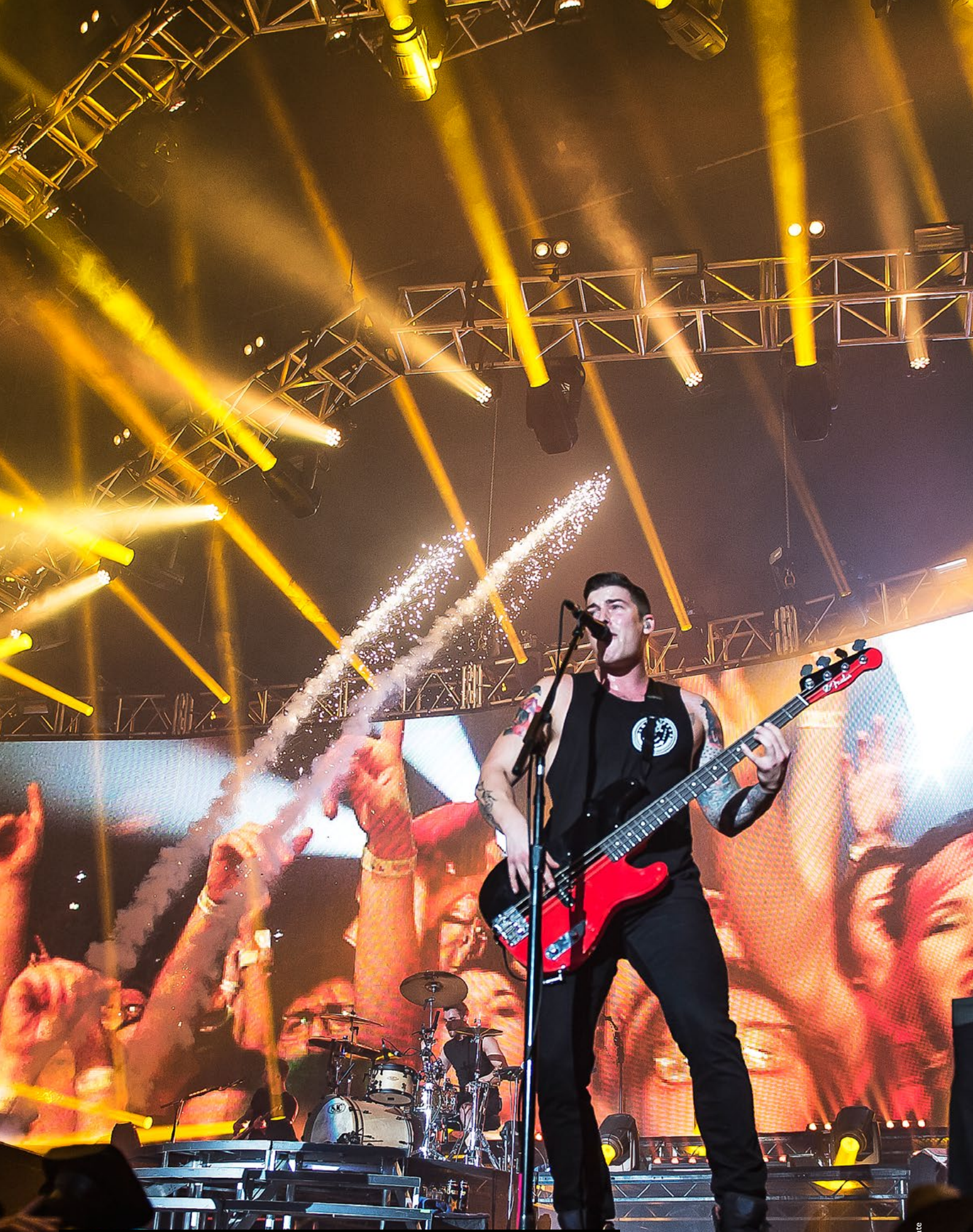
The ART2000i is based on a master frame containing two dimmer modules and cost effective expansion module that can add another two slave modules. The whole system is constructed to the tough, high quality design and build specifications of all other Avolites products.

Systems are available with a range of channel types, including 16 or 32amp dimming channels, mains switching channels or DMX controlled contactor modules, allowing remote switching of ballasted fixtures. Each frame has a dedicated mains inlet, allowing for easy retrofit in venues with smaller mains supplies already fitted.

Many installation systems require hot patching, where the installer needs to fabricate a custom patch panel. Only Avolites offers you the convenience of a fully integrated mains patching system within the installation dimmer. Other features include full DMX patch and merge (2 DMX lines), dimmer curve and limit selection per channel, power OK indicators.



ART 2000i 24 x 16A & Patch



All Time Low - One Night in London with All Time Low

Lighting Designer – Jeff Maker – Sapphire Touch

Video Solutions & Operation – RES