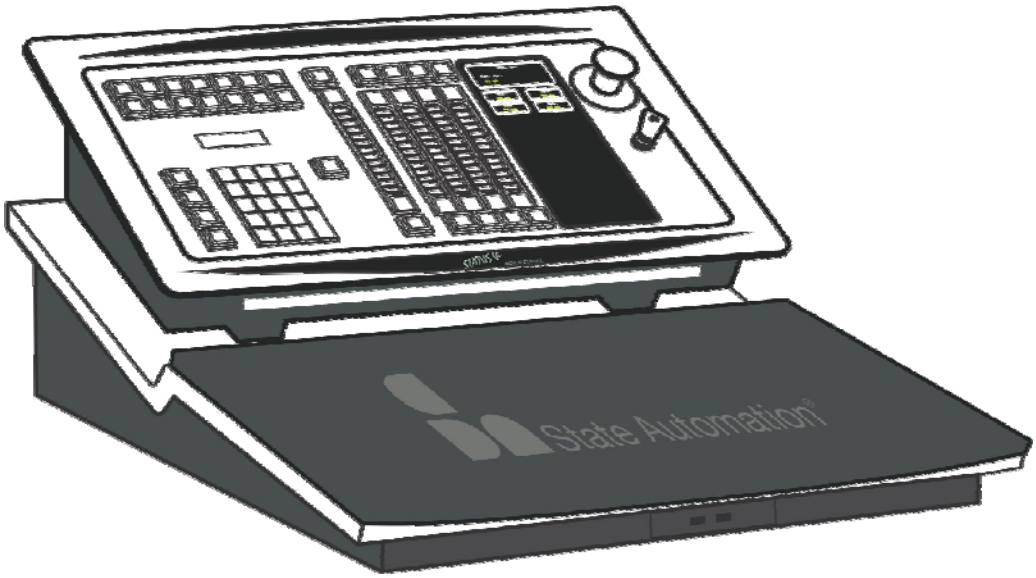
State Automation®
Everything is Possible™

STATUS Vi® CONSOLE

PRODUCT INFORMATION

AFFORDABLE SOPHISTICATION, PERFORMANCE & SAFETY



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STATUS Vi® CONSOLE

The most advanced stage automation control system, StatusVi Automation System is scenery movement control at the user's finger tips.

StatusVi is safe, flexible, powerful, performance proven, and designed by theatre People for creative theatre people.

StatusVi can be installed in any Theatre, Opera, TV and production Studio, Touring and multifunctional venues that is used for live performance. Since the smoothness of operation is equivalent to manual operation of equipment. No jerk, shake, rattle... just a smooth move which can be reproduced to below a 1mm accuracy time after time.

KEY FEATURES

- ✓ Intuitive User Interface
- ✓ Safety Compliance to EU Machinery Directive
- ✓ Portable Compact Design
- ✓ Flexible
- ✓ Value for Money

Once more, State Automation has created a new price, performance and convenience benchmark for Stage Machinery control-systems. After nearly 15 years and hundreds of thousands of hours of safe and reliable operation in theatres around the world, State Automation has significantly updated the successful and popular *STATUS* family of compact control systems. The result is the new *STATUS*^{Vi}.

STATUS^{Vi} console offers an Operator Control Panel (OCP) and the *"Graphical User Interface"* (GUI) into one contemporary console to create a new performance standard for entry-level control systems.

The constant evolution of computer hardware means that it is now possible to pack the same computer power that would have once required a full 19" rack into the sleek *STATUS*^{Vi} console. The advantage of this approach is that the UI, GUI, *Safety Computer* and Emergency-Stop system have been combined into an elegant and truly portable package. The OCP provides sophistication and operator convenience that must be experienced to be fully appreciated.

In fact, *STATUS*^{Vi} is not just one product but a suite of compatible products and services that have evolved to meet the real needs of theatres and theatre professionals, around the world. Our specialists carefully assess the requirements of each project from this range of standard products. *STATUS*^{Vi} offers a truly "off-the-shelf" solution for the most demanding applications.

SUMMARY OF MAIN FEATURES

- ✓ Suitable for Drama, Opera, Ballet, Musical, Television;
- ✓ Scenery and lighting batten hoists;
- ✓ Fault tolerant;
- ✓ Up to 120 simultaneous users;
- ✓ Special motion effects;
- ✓ Extensive group facilities;
- ✓ Unrestricted simultaneous and overlapping actions;
- ✓ High Performance industrial standard hardware;
- ✓ Electric or hydraulic Axis;
- ✓ Stage wagons, lifts and elevators;
- ✓ Internal backup;
- ✓ Multiple remote control units;
- ✓ Distributed Axis Controllers;
- ✓ Synchronous movements;
- ✓ Unlimited speed, acceleration and profile flexibility;
- ✓ High performance automation control software; and
- ✓ Demonstrated track record.

PRINCIPAL FEATURES

- Latest Atom architecture: Independent GUI and Safety-Computers:
  - Fault-tolerant;
  - Motion control functions independent of GUI;
  - Client-server, SQL structure.
- Familiar & intuitive multi-lingual Windows based GUI interface:
  - Intuitive user interface – industry minimum keystroke requirement;
  - Dynamic display of machine movement in 3D.
- Linux Operating System for the System Controller:
  -Fast, reliable & guaranteed response time.
- High speed, deterministic motion control LAN:
  - Ethernet IEEE802.3 based.
- Industrial grade hardware throughout.
- Portable and 100% self-contained
- Fault tolerant:
  - Duplicated Axis-Control LAN; (option)
  - Local control from Axis-Controllers; (option)
  - Hot-standby 2nd *STATUS*$^{Vi+}$ configuration. (option)
- Self-contained Emergency-Stop system to EN954-1 Cat 2 or 3 (option)
- OCP offers:
  - User friendly experience: Intuitive “guiding” menu structure;
  - Programmable LCD buttons;
  - E-belt sliders for variable input control;
  - “Point and shoot” touch screen input (option).
- Remote Control options: (available on selected models only)
  - LOCON, ROVER;
  - ARGONAUT;
  - *STATUS*$^{Vi+}$ backup.
- Multi-User Control Panel: (with remote control option)
  - Simultaneous LOCON, ROVER, and ARGONAUT users;
  - Simultaneous Rigging, Recording and Show Playback.
- Highly sophisticated software features:
  - STATE AUTOMATION’s revolutionary abstract cue system: “Actions” and “Cues”;
  - Unrestricted overlapping and follow-on, cues and actions;
  - Multiple group types: asynchronous, synchronised, rigid, temporary and permanent;
  - Learn, store and replay profile;
  - Dynamic-weighing and Snag detection.

- Suited for Drama, Opera, Ballet, Musicals, Television and touring.
- Electric, hydraulic or mixed power
- Internationally proven and backed by STATE AUTOMATION's worldwide experience, partners and commitment to quality and service

Note: Some features are supported on selected models only. External customer supplied hardware is required for some functions. Refer to factory for details. Specifications are subject to change in line with State Automation's commitment to continual product development.

STATUS^{Vi} continues STATE AUTOMATION's philosophy of employing high-performance, robust industrial computer power. *STATUS*^{Vi} is available in a number of model configurations ensuring that there is one just right for your application and budget.

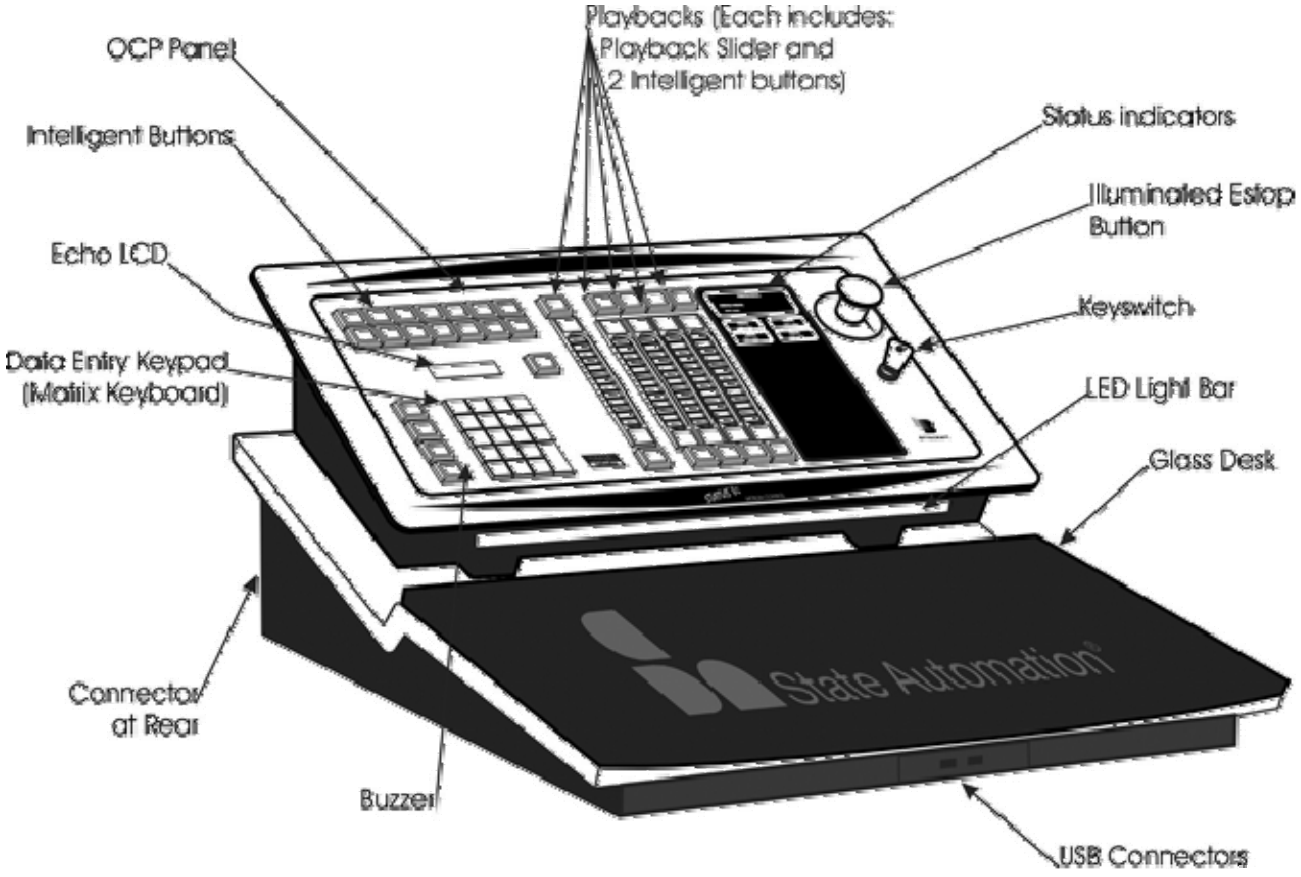
Better Safe than Sorry –
DYNAMIC WEIGHING & SNAG DETECTION

One of the main criticisms of power-flying systems cited by skilled fly-men is their inability to "feel" when a set or a curtain "snags". When one piece of scenery snags on another, in either an upward or a downward movement, the user cannot feel this as he would in a conventional hemp system. This is true for most control systems but not for a STATE AUTOMATION *STATUS*^{Vi} system. With optional load cells, the *STATUS*^{Vi} is able to detect an abnormal variation in load and to stop the offending machine, thus preventing accidents. *STATUS*^{Vi} has a much faster reaction time than a human operator and therefore can help prevent damage and injury.

Every Mechanist can be an Artist - LEARN PROFILE

With the addition of a LOCON, the *STATUS*^{Vi} records movement in real-time. Allocate a bar to a slider, initiate the movement and move the bar according to the commands received from the Director. When the movement is finished, pressing the record key stores the movement. Replay and modification, if desired, is possible instantly! This STATE AUTOMATION technology enables every mechanist to participate fully in the creative process: your production looks just the way the designer imagined with minimum delay and stress.

OPERATION PHILOSOPHY



STATUS^{Vi} operation is intuitive. To move any equipment, only a minimum number of keystrokes are necessary. For example, to perform a manual move, simply select the motor number, depress and maintain the START/DMB key, push on the Playback slider to move up or pull to go down, release it to stop. That's all it takes!

The programmed limits of travel will control the movement and apply the necessary maximum speed, acceleration & deceleration limits, ensuring that even if you inadvertently try to operate the machine outside its limits, safety will be guaranteed.

Sophisticated programming sequences are very simple. Each key is an Intelligent Button; when you start the command entry, immediately the next available keys light up to indicate the next relevant key to press.

When you have performed a move to your satisfaction, just press the Record key and the parameters of the move will be stored in memory. The memory for a show can hold thousands of moves. The number of shows that *STATUS*^{Vi} can store is only dependent on the size of the hard disk and it is well beyond practical limits.

Complex shows are no problem for *STATUS*^{Vi}. Programming the *STATUS*^{Vi} to perform extremely sophisticated sequences is simple. Of course, when operating multiple winches simultaneously, safety is paramount. To prevent collisions *STATUS*^{Vi} monitors the positions of multiple machines relative to each other using "Conditional-Actions".

Furthermore, with *STATUS*^{Vi} you can access any machine quickly and independently to stop it, slow it down or speed it up without affecting the rest of the cue. If you need to stop all the machines at once, release the DMB key: all sets, platforms, curtains, etc. currently moving will come to a safe, controlled halt. Then, if you want to restart the cue, simply press on the

START/DMB button and all of the machines will resume their interrupted actions. It could not be simpler.

STATUS^{Vi} monitors and displays all events in real-time. The GUI displays the updated position and speed of each machine in real-time. The operator remains in full control because he has total knowledge of the conditions of the mechanical and electronic elements, in real-time.

The compact design of the *STATUS*^{Vi} and the *WINCON* racks makes them the perfect system for sophisticated touring applications.

REFERENCES

The following fine theatres have selected State Automation technology:

- Beauty & The Beast, Australian Tour.
- National Centre of the Performing Arts, Beijing, PRC.
- Bergen Op Zoom, Netherlands.
- Comédie des Champs Elysées, Paris, France.
- Drama Theatre, Sydney Opera House, Sydney, Australia.
- El Dorado Casino, Reno, USA.
- Esplanade Theatres on the Bay, Concert Hall, Singapore.
- Juilliard School, Lincoln Centre, New York, USA.
- Kang Buk Theatre, Korea.
- Kwai Tsing Theatre, Hong Kong.
- Le Phénix, Valenciennes, France.
- Malaysian National Theatre, Kuala Lumpur, Malaysia.
- NDT, Lucent Dance Theatre, Den Haag, Netherlands.
- Opéra Nouvel, Opéra de Lyon, France.
- Pennsylvania State, Brice Jordan Center, USA.
- Phantom of the Opera, Australasian Tour.
- Phantom of the Opera, Seoul, Korea.
- Sori Arts Centre, Korea.
- Shenzhen Concert Hall, PRC.
- Shenzhen Multipurpose Hall, PRC.
- Stadsschouwburg Groningen, Netherlands.
- Star City Casino Showroom, Sydney, Australia.
- State Theatre, Victorian Arts Centre, Melbourne, Australia.
- Sydney Opera House, Opera Theatre, Sydney, Australia.
- Teatre Lliure, Barcelona, Spain.

- The Atrium, Crown Casino, Melbourne, Australia.
- Théâtre du Chatelet, Paris, France.
- Théâtre National de Strasbourg, France.
- Arts Centre Melbourne, Concert Hall, Melbourne, Australia.
- Yuen Long Theatre, Hong Kong.

THE STATUS Vi SYSTEM OVERVIEW

The STATUS Vi Console is the heart of the system. The console contains all the essential parts of the *STATUS*^{Vi} system including CPUs, (Graphic and Safety-Computer) E-Stop system, Power supplies etc. The console is light enough to be transported to the best location for operation. The ergonomics of the User Interface provides the operator with a comfortable and confidence inspiring work environment. This means that the director's wishes can be swiftly translated into an easy-to-execute show.

DESIGNER LOCON. The ability to provide multiple sophisticated remote control points is unique to State Automation. The Designer *LOCON* (Local Controller) is used to perform manual and programmed moves. Movement targets can be set to a fixed destination or a predetermined memory position. A move can involve a single machine or a group of machines, all with independent targets if required. Both acceleration and deceleration can be programmed and the movement can be set to either time or speed. The joystick allows the control of all machines in operation as a general master. Of course, the philosophy of a Dead-Man's-Button is maintained as a safety feature.

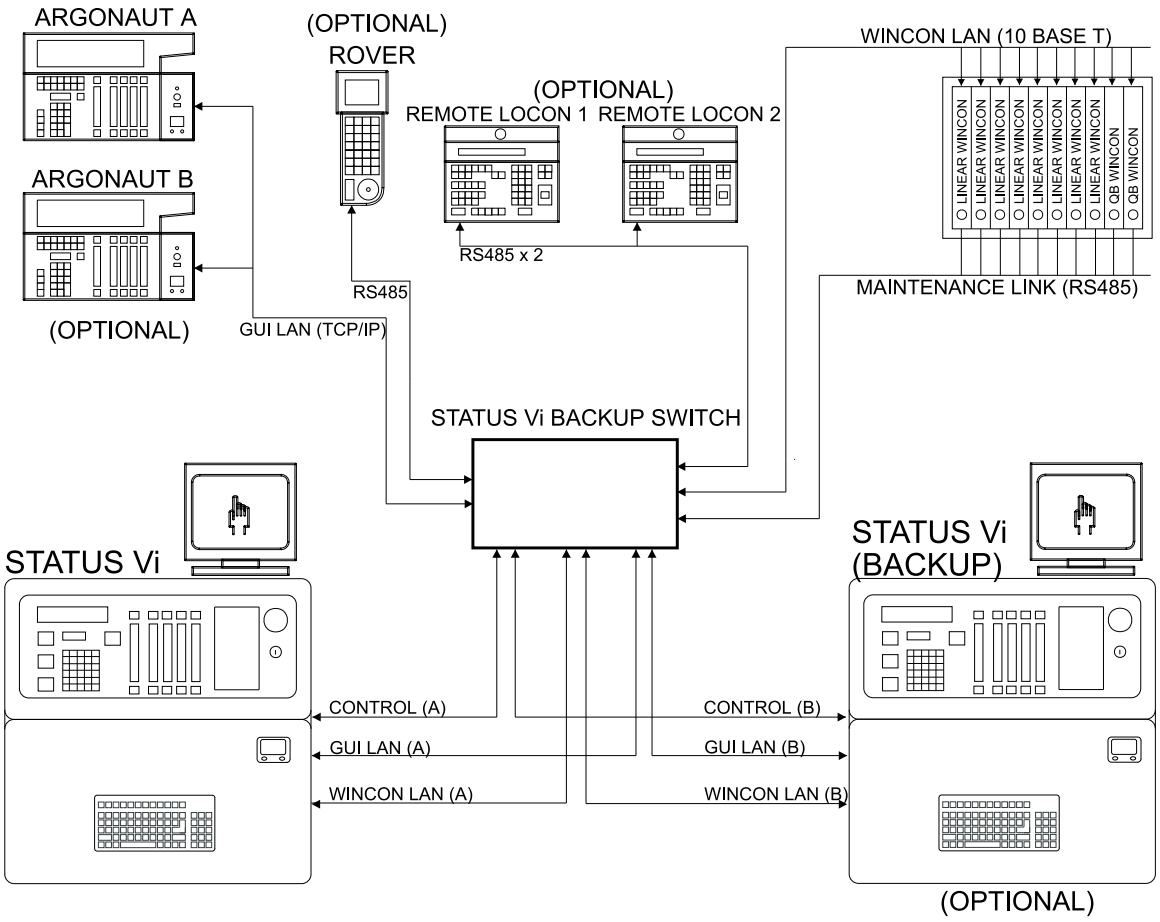
ROVER is a hand-held remote control unit for the *STATUS*^{Vi} system. When room is restricted, or scenery is awkward to control, *ROVER* is the ideal solution. Special features have been programmed into the hand-held remote which allow the operator to work in close proximity with special equipment (wagons, revolves, etc) ensuring total safety. A wide LCD screen displays all of the parameters and instructions necessary for system operation. With *ROVE*R, an operator is able to move any piece or collection of scenery. Actions and Cues can be designed and recorded and shows can be played back, all with the convenience of a truly portable, hand-held controller.

WINCON is State Automation's intelligent Winch-Controller unit. No matter what kind of energy you want to use, AC, DC or hydraulic, WINCON is designed for it. Comprehensive digital and analogue safety inputs, together with fast Ethernet links to *STATUS*^{Vi}, guarantee split second decision and control.

A 6U high, 19" format sub-rack houses up to 10 *WINCONs*. Larger systems comprise multiple sub-racks. A *WINCON* power pack is provided for each *WINCON* sub-rack. The power pack is fully redundant with two power supplies and is supplied as a 3U, 19" module.

While WINCON generally depends on *STATUS*^{Vi} to operate, in an emergency, machinery can be operated locally via an optional manual control unit that is plugged into the *WINCON* front panel.

POWER TYPES. STATE AUTOMATION recognises that there is no universal power source for every entertainment motion-control application. For that reason, *STATUS*^{Vi} is right at home controlling hydraulic motors, rams, electric motors (AC/DC) or pneumatics.



DIMENSIONS (The value in brackets includes packing)

Product	Height (mm)	Width (mm)	Depth (876)	Weight (mm)
STATUS^{Vi}	300 (550)	600 (1101)	600 (876)	25 (75)

STATE AUTOMATION proudly designs and manufactures STATE, *STATUS*$^{900+}$, *STATUS*^{Vi}, and ARGONAUT consoles, *WINCON* axis controllers, *ROVER*, *LOCON* and all accessories in Australia. They are products of STATE AUTOMATION's commitment to excellence, innovation and continual product development. Because STATE AUTOMATION controls all of the hardware, software and manufacturing of the STATE program, our Engineers have unrestricted design freedom when implementing advanced new features and customer requirements. Specifications are subject to change without notice.

At STATE AUTOMATION, everything is possible.

State Automation Control Systems- Feature Summary

	STATE[6]	*STATUS*[Vi+]	*STATUS*[Vi]
Features			
Playbacks	Option up to 120[1]	5	5
Support optical rail	Yes	-	-
Remote *LOCON*	Option (max 120)	Option (max 3)	Option (max 3)
Axes	999	199	50
CPUs	5	2	2
Fault Tolerant OCP	Yes	Yes[2]	Yes[3]
ROVER	Option	Option	Option
Backup	Yes	Yes[3]	-
Touch Screen Display	Yes	Yes	Option
Remote ARGONAUT	Option	Option	-
Emergency Stop system	External	Internal	Internal
Annunciation	GUI	Option	Option
Zones	64+	1	1
Display	GUI	LED/GUI	LED/GUI
EN954-1 Cat:	2 Std, 3 Option	2 Std, 3 Option	2 Std, 3 Option
EN Class	0 (1 option)	0 (1 option)	0 (1 option)
Support "Snag" detection"[4]	Yes	Yes	Yes
Remote DMB	Yes	-	-
Software features			
Record profile	Yes	Yes	Option
Security	Yes	Yes	Option
Motor monitoring	Yes	Yes	Option

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[1] Depends on configuration
[2] With *ROVER*™ option
[3] Requires 2nd *STATUS*[Vi] plus Backup Adaptor
[4] Requires customer supplied load-cells.