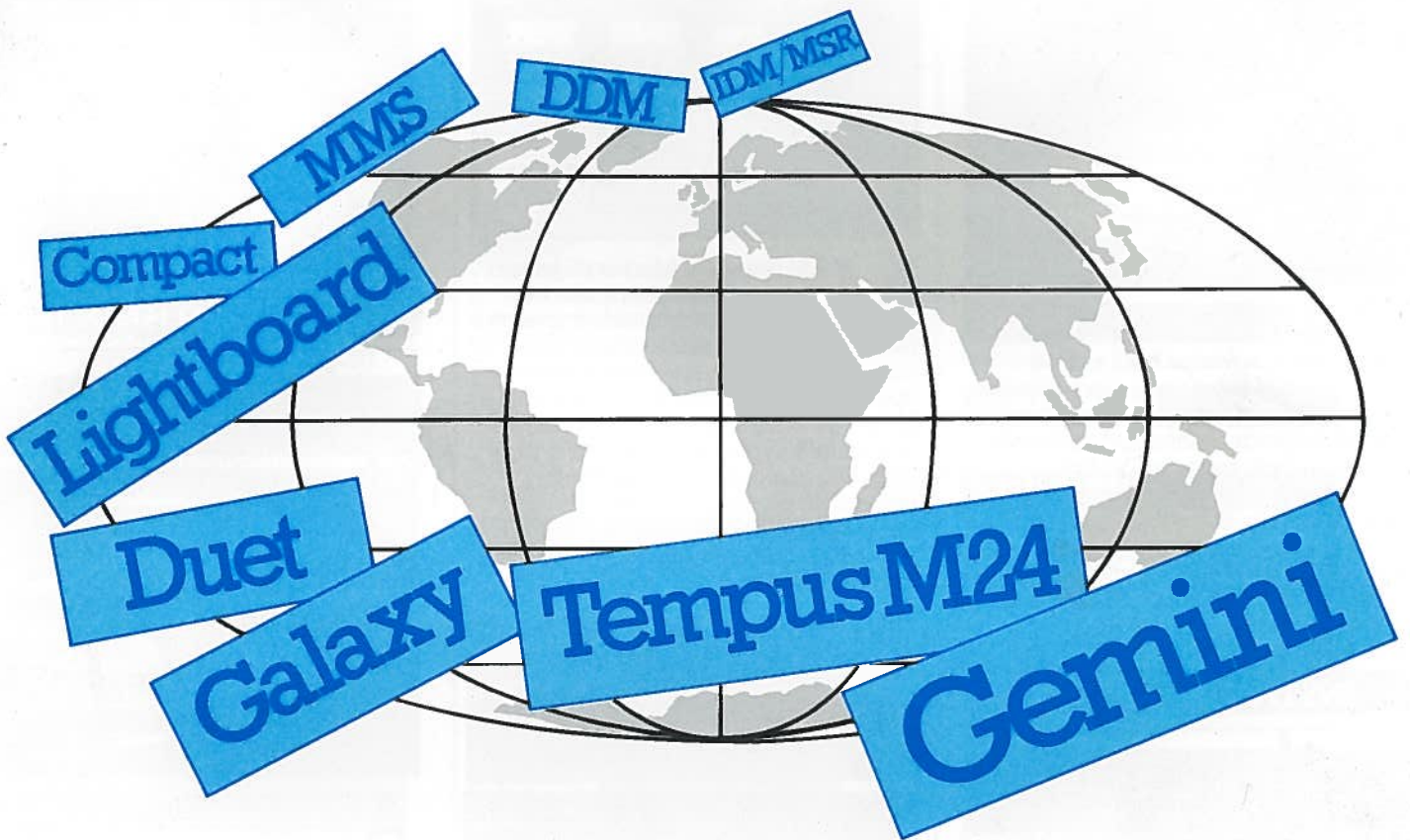


Rank Strand

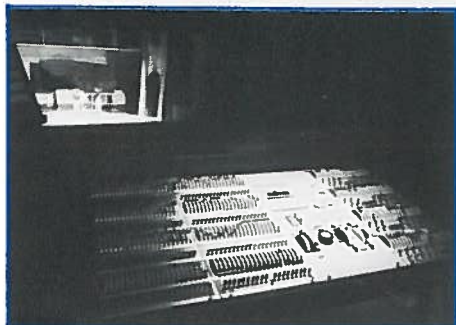


Memory Lighting Control Systems *Worldwide* 1967—1985

Rank Strand pioneered the development of memory lighting control for the entertainment industry in 1967, with the introduction of the Instant Dimmer Memory system. Nine generations of memory control later, and with more than one thousand four hundred installed systems to its credit, Rank Strand maintains its worldwide reputation for the manufacture of innovative technology for the creative lighting designer.

1967

IDM/MSR



THE world's first memory lighting control, the IDM/DL, grew from the need to advance from a three preset manual fader desk to provide the means to record the fader levels and instantly reproduce those preset levels during the performance. The first installation in June 1968 in Schweinfurt, was followed by Budapest Opera and the Coliseum London. With its push button IDM/R variant (the prototype of the DDM) and the later redesigned MSR system, 20 systems were installed around the world.

INSTALLATIONS: 20

1971

DDM



THE operational advances of IDM's recorded presets were hampered by the cumbersome procedure required to re-record a modified lighting state. A system which addressed this problem whilst retaining the immediate access to any channel was the push button version of IDM (the /R for Rocker switch) which became the conceptual prototype for the first software computer lighting control. The DDM (Digital Dimmer Memory) was developed for the Royal Shakespeare Theatre, Stratford-upon-Avon, but immediately became recognised as the major world-class memory lighting control. In its three forms DDM was installed in eighteen major theatres and opera houses including Teatro Alla Scala, Milan; Opernhaus, Hannover; Hancher Auditorium, Iowa City and the Festival Theatre, Adelaide.

INSTALLATIONS: 18

1973

MMS



MMS (Modular Memory System) was the first mass produced memory control and jumped two hurdles in a single stride: it took full advantage of low-priced integrated circuit technology, and dispensed with a rocker switch per channel in favour of a calculator keypad and wheel, to control up to 480 channels. A range of user selectable modules gave theatres and TV studios in 30 countries the chance to light with a custom-designed control at an affordable price.

INSTALLATIONS: 208

1975

COMPACT



THE overwhelming success of MMS led to a smaller, transportable, compact MMS system with fixed facilities for up to 120 channels. Three versions were produced and supplied to theatres and television companies worldwide.

INSTALLATIONS: 108

1976

LIGHTBOARD



THE exacting production schedules forecast for London's National Theatre led Richard Pilbrow, the

National's consultant, and chairman of Theatre Projects, to develop the concept for a fully saturated lighting rig, controlled by highly sophisticated purpose-designed lighting control. Lightboard pioneered control of 1000 channels, total control of lighting intensity, position and colour, the powerful latest-action-takes-precedence principles and multiple timed fades.

Development continued after the National project and in all eleven systems were installed, including the Royal Opera House, Covent Garden; Deutsche Oper, Berlin and Schauspiel Opera Stuttgart.

INSTALLATIONS: 11

1978

DUET

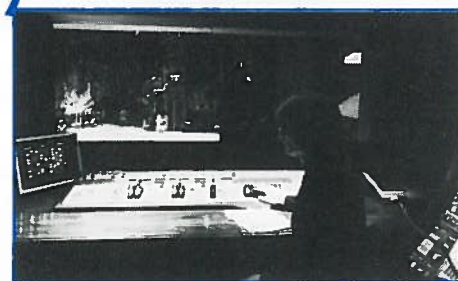


A'child' of the microprocessor revolution of the mid 70's, Duet was the first 'off the shelf' packaged memory control. Controlling up to 120 channels, the desk-top sized Duet performed as both a permanent and portable memory control for provincial and major theatres, TV studios, and hire companies around the world.

INSTALLATIONS: 500+

1980

GALAXY



GALAXY took a fresh look at modular control, and brought MMS operation philosophy up-to-date with simple, direct control of up to 768 channels, multipart timed fades, colour VDUs, and a choice of simultaneous remote controls. Continued development led to Galaxy 2, a range of three memory controls to meet the specific needs of Theatre, Opera and TV throughout the world.

INSTALLATIONS: 160+

1983

TEMPUS M24



THE highly acclaimed M24, designed for the smaller lighting rigs, owes so much to its heritage. From IDM came the concept of recording from an associated fader wing, from MMS the wheel and keypad control, from Lightboard the multipart fades, and from Galaxy the speed of operation. Although small in size, the power of the 60 channel (now 120 channel) 'baby' of the range has been internationally adopted in professional and amateur theatre, TV and hire companies.

INSTALLATIONS: 350+

1984

GEMINI



THE latest addition to the Strand catalogue of memory lighting control expands the mid-range capability to 180 channels, soft patched to up to 384 dimmers. The sophistication of Galaxy 2 is combined with the ease of operation of M24 in Gemini's fixed format compact desk which includes the latest Strand innovation - fully programmable special effects.

SYSTEMS ORDERED: 50+

Galaxy

A FEW OF OUR FAMOUS CUSTOMERS

Country	Customer	Channels
AUSTRALIA	His Majesty's Theatre, Perth	192
	Channel 7 TV, Brisbane	240
	Sydney Opera House*	240
	ATN7 TV Studio, Sydney	480
	TCN 9 TV Studio, Sydney	720
	Queensland Cultural Centre, Brisbane*	240
	Victorian Arts Centre, Melbourne*	240
	HSV 7 TV Studio 1, Melbourne	336
	Adelaide Festival Theatre	240
	NBN 3 TV Studio, Newcastle	240
	Canberra Theatre	240
	ATV Channel 10, Melbourne	336
	Comedy Theatre, Melbourne	144
	Her Majesty's Theatre, Melbourne	192
Seymour Centre, Sydney	144	
Darwin Arts Centre	144	
AUSTRIA	Theater in der Josefstadt, Vienna	192
	Staatsoper, Vienna	768
	Burgtheater, Vienna	768
	Opernhaus, Graz	288
CZECHOSLOVAKIA	Prague National Theatre*	288
	Smetanova Theatre, Prague	240
EGYPT	High Council of Culture Theatre*	160
FRANCE	Theatre National de L'Opera Comique, Paris	270
	Theatre des Arts, Rouen	240
	Theatre Municipal, Dijon	160
	Theatre Antique d'Orange	240
	Maison de la Radio, Paris	180
	Palais des Congress, Nice	200
	Cabaret le Lido Normandie, Paris	336
	Opera Municipal de Lyon	192
Palais des Sports de Paris	144	
GERMANY	Schaubuehne, Berlin*	576
	Goetheplatz-Theater, Bremen	288
	Stadttheater, Schweinfurt	120
	Staatstheater, Stuttgart*	600
	SWF TV Studios, Baden Baden*	120
	ZDF TV Studios, Mainz*	384
	Schauspielhaus, Stuttgart*	144
	Deutsche Oper, Berlin	400
Congress Centre, Hamburg*	192	
Theater des Westens, Berlin	288	
HOLLAND	Circus Theatre, Scheveningen	192
	De Munt Theatre	144
HONG KONG	Academy for Performing Arts*	432
Humgom Stadium	144	
Kao San Open Air Theatre	144	
HUNGARY	Opera House, Budapest	240
ICELAND	Islinska Operau	144
IRELAND	Abbey Theatre, Dublin	240
ITALY	Verona Arena	192
	RAI TV Rome*	192
	Video Time TV Milan*	240
	La Bussola, Pisa	192
	Messina Theatre, Sicily	240
JAPAN	National Theatre, Osaka*	480
MALAYSIA	UMNO Kompleks	390
NORWAY	Oslo Concert Hall	240
PORTUGAL	Gulbenkian Foundation	192
SOUTH AFRICA	Sun City*	192
	Provincial Theatres Complex, Durban*	576
	Sand du Plessis Opera House, Bloemfontein*	480
SPAIN	RTVE TV Studios*	192
	Theatre del Gran Liceo, Barcelona	288
SWEDEN	Folkan Theatre, Stockholm	240
TV Studio, Norkopping	120	
SWITZERLAND	Casino, Zug	144
Stadttheater, Luzern	96	
DRS TV Studio, Zurich	120	
TURKEY	State Opera, Istanbul	240
UNITED KINGDOM	BBC Glasgow*	384
	BBC TV Centre, London*	384
	Apollo Victoria Theatre, London	240
	Royal Shakespeare Theatre, Stratford-upon-Avon	240
	RSC Barbican Theatre, London	480
	TV AM TV Studios, London*	192
	Theatre Royal, Plymouth*	360
	Theatre Royal, Bath	192
	Limehouse TV Studios, London*	336
	Lytic Theatre, Hammersmith	120
	Marlow Theatre, Canterbury	192
	Old Vic, Bristol	144
	Crucible Theatre, Sheffield	240
	Granada TV, Manchester	336
Scottish Opera, Glasgow	240	
Belgrade Theatre, Coventry	192	
Coliseum, London	384	
Royal Exchange Theatre, Manchester	192	
TVS TV Studio, Southampton	288	
Sadlers Wells Theatre, London	192	

* Customers with two or more Galaxy systems.

Memory Lighting Control Systems 1985

Tempus M24



A small portable multiplexed memory control for theatre, TV and AV lighting systems using up to 120 channels and providing a maximum of 199 memories.

Tempus M24FX



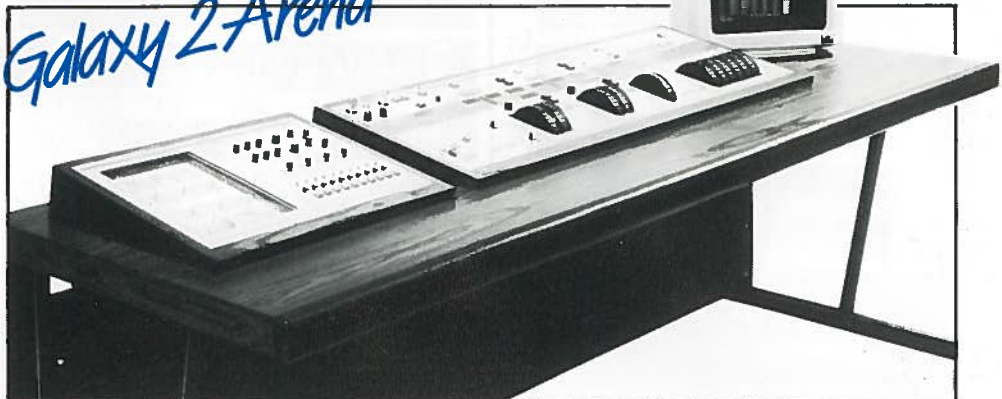
A 120 channel, eight group multiplexed control desk with a variety of special effects for concert halls and discos or to extend and provide an automatic back-up for M24.

Gemini



The newest memory lighting control for theatres, clubs and touring companies, Gemini offers 180 channels of multiplexed control, electronically patchable to expand the system for up to 384 dimmers. Features include twin playbacks, submasters, disc library storage, 80 group electronic back-up, colour VDU, remote controls and an advanced programmable effects system.

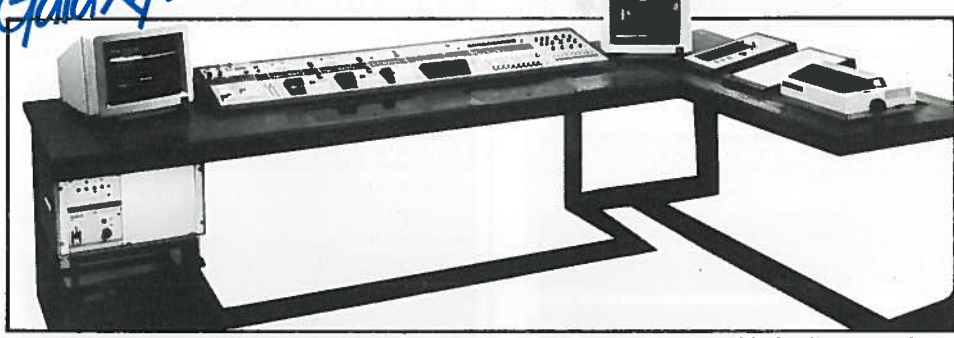
Galaxy 2 Arena



The sophisticated modular memory control for theatres, concert halls and clubs with requirements for 96 to 768 channels of lighting. A wide range of control panels gives the user the choice

of operating facilities and features to 'tailor' the control to a specific need, and a host of peripheral equipment expands Galaxy's capability into a highly comprehensive lighting system.

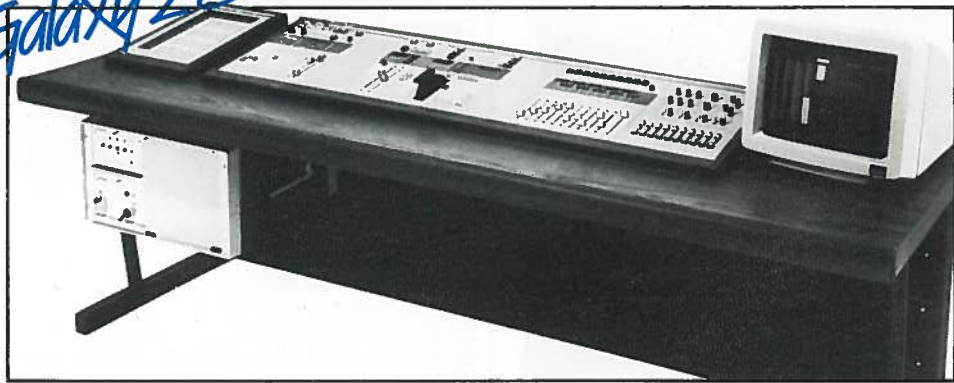
Galaxy 2 Premier



The ultimate in sophisticated theatre memory control, Premier includes all the features of Arena plus additional recording of multipart professional

fades, keypad entry of fade times, and a unique facility which automatically copies and reproduces the subtleties of the most complex manual fade.

Galaxy 2 Studio



A specific TV playback and a customised software program places the emphasis of Galaxy 2 studio on

spontaneous access to memories and channels, instant re-recording and comprehensive manual control of fades.



Rank Strand

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