RANK STRAND

modular memory system
LIGHTING CONTROL

MMS the Modular Memory System
precise in lighting performance with over-riding operator access at all times

Mimic display shows which channels are above zero light and allows content of any Memory to be previewed. This module, or its alternative, with a push for each channel, repeats for each multiple of 120 control channels.

Channel Control one of three alternatives all with the fader wheel to set or change intensity levels without the need to match. The keyboard, for channel number selection, is extended on this particular module to allow direct entry of intensity levels and to allow two or more channels or a group recalled from the Memory to be controlled simultaneously.

Playback to crossfade from the lighting content in one local store to that in the other. The content of either store can be modified by the Channel Control, or recorded, or stored information can be recalled into either store. Rate Playback, illustrated, has unique groupfade facilities in addition to 1 second to 60 minute autofade. Alternative is manually operated.

Memory No. keyboard used to positively identify intensity level information recorded into the Core Memory and to locate that information for recall into a Playback module. Sequence push allows automatic recall of next number. Alternative **Recorded Sequence Memory No.** module allows insertion of new memory numbers, or to repeat a series.

Core Memory. The fast-access ferrite memory to store intensity level information in precise detail – 254 discrete levels between zero and full intensity for every control channel. Storage capacity varies with the number of channels and whether one or two core blocks fitted. Up to 130 memories of 120 channels available with single core block.

Back Up Masters. Ten independent fader levers, for ancillary services, controlling the ten groups selected on the Pin Patch module. Choice of pins allow pile-on or subtractive group mastering.

Pin Patch matrix to allow any combination of channels to be semi-permanently grouped to the ten independent fader levers. Yellow pins used for pile-on mode of operation, red pins for subtractive, inhibitor masters. This module repeats for each multiple of 120 control channels.

Blank to allow for future extension of facilities – a second Playback module, or a **Tape** module for repertoire storage of intensity levels on a data tape cartridge, or a **Stalls** interface module to provide the principal facilities at a remote and portable **Stalls Terminal.**
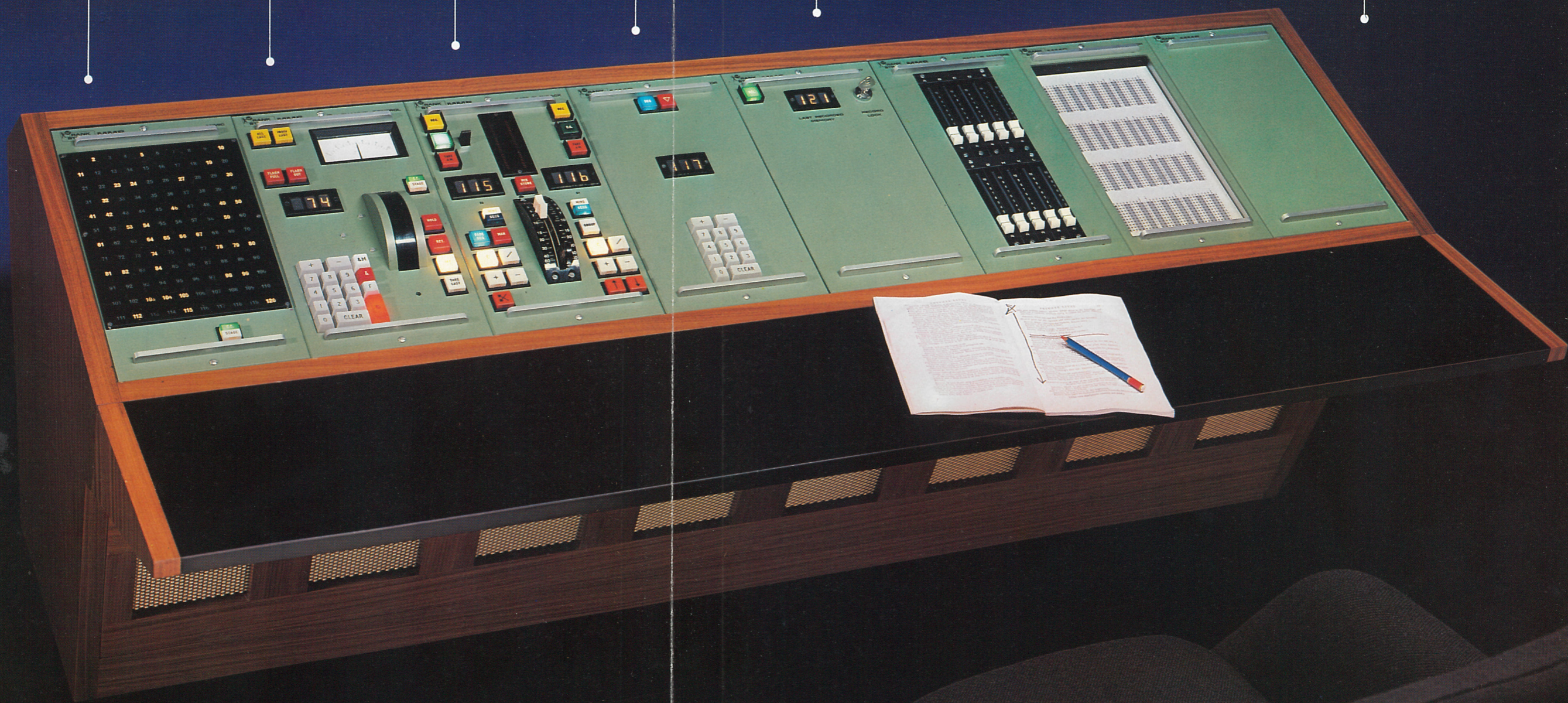
A truly Modular System– both electronically and mechanically

Over one hundred MMS controls are already in use in world famous concert halls, in drama, opera and ballet repertoire theatres, in broadcast television studios both large and small, in multi-purpose auditoria, in long-run West End and Broadway type theatres and in such dissimilar locations as university campus theatres and continental casinos.

Whatever the application MMS performs completely and effectively. Its unique design with every module plugging into the same data link offers limitless permutations in the form and facilities with a choice of:

- Eighty to 360 control channels.
- Three different methods of channel control, two of which include unique group selection; all three methods feature the unique fader wheel.
- Three displays of information at the touch of a button – the active lighting, the blind lighting or the total lighting during a crossfade.
- Two entirely different methods of changing instantly or gradually from one effect to the next – one manually operated, the other timed from 1 second to 60 minutes with unique upfade, downfade and groupfade possibilities.
- Fast, random access storage of precise intensity levels.
- Optional repertoire storage on a data tape cartridge and, if required, peripheral print-out and type-in.
- Optional remote control of all principal facilities.
- Ten independent master faders for semi-permanent groups.

And the opportunity, initially or later, to duplicate facilities and also to extend them to suit either different lighting techniques or for a change of artistic policy, say from long-run to repertoire working.

1 *Granada TV Centre Manchester*
2 *Theatre Royal Drury Lane, London*
3 *Theatre Clwyd, Mold*

A truly Modular System-both electronically and mechanically

The Modular Memory System uses today's, and a touch of tomorrow's, technology to serve the creative requirements of stage and television lighting – precisely, economically, and above all, effectively.

MMS controls and remembers accurately the intensity levels of as few as 80 or as many as 360 separate channels. The unique fader wheel provides immediate fingertip modification for initial lighting design and for the inspiration of the moment.
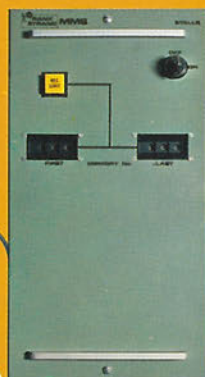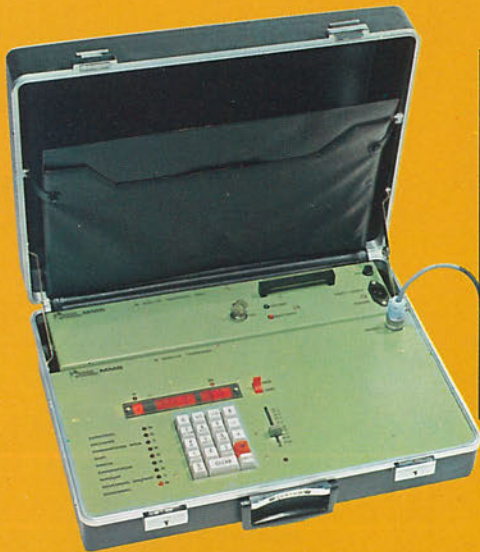
Top
Optional Tape module , extended to double-width module to house interface for print-out and type-in from peripheral Teletype.
Bottom
Optional Stalls Terminal, and associated interface module , which provides all principal functions in a highly portable form.

Top right
Alternative two-tier MMS desk. S.F. P. TV Studio, Paris.
Bottom right
This MMS shows alternative Mimic, Channel Control and Playback modules to those shown in the principal illustration. Vanbrugh Theatre R.A.D.A.

![RANK STRAND logo]

4 *Roundhouse Theatre, Camden*
5 *BBC London, TV Centre,Studio 5*
6 *Royal Festival Hall, London*
7 *Belgrade Theatre, Coventry*
8 *BBC Wales, TV Studio, Cardiff*
9 *Victoria Palace, London*