

# PORTABLE MEMORY SYSTEMS



COMPACT IS THE FIRST OF A SERIES OF LIGHTING CONTROLS DEVELOPED FROM RANK STRAND'S HIGHLY SUCCESSFUL MODULAR MEMORY SYSTEM.

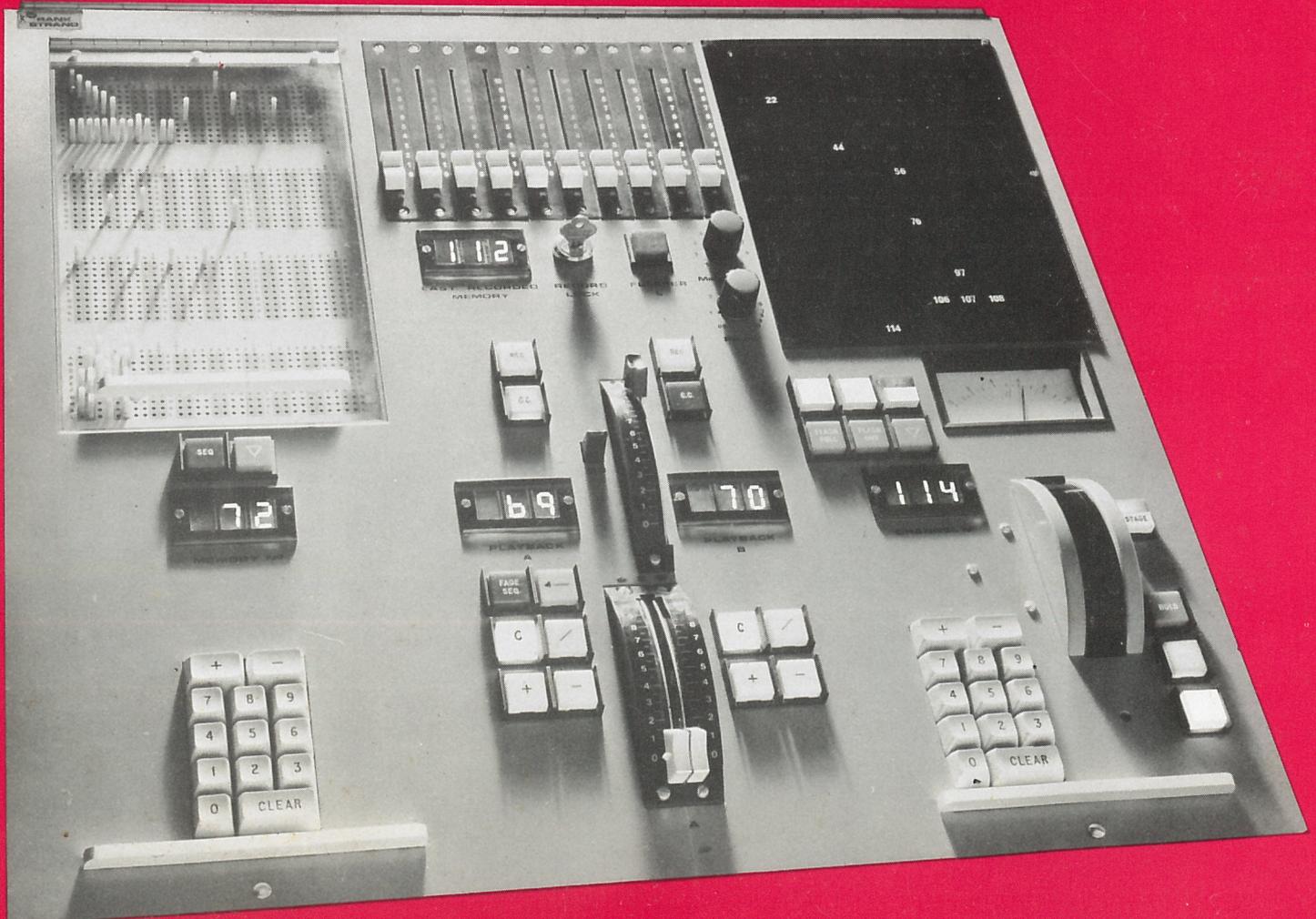
COMPACT is a dimmer memory control based upon a fixed combination of MMS facilities and technology.

COMPACT is portable—full facility control of up to 120 separate control channels with 130 cue ferrite-core storage capacity all within an operational area only 2 foot square (that's just 610mm square) and all integrated circuitry contained within an 18 inch (460mm) depth.

COMPACT is ideal for television, stage and presentation lighting in changing locations, for example in television outside broadcast vehicles, or on tour with that spectacular production, or for that national or international event.

COMPACT can also be used as a packaged dimmer memory control for small television studios and non-repertoire theatres.

COMPACT will control any Rank Strand Thyristor dimmers. Small cross-section flexible control cables just plug-in allowing the power handling dimmers to be located wherever convenient.



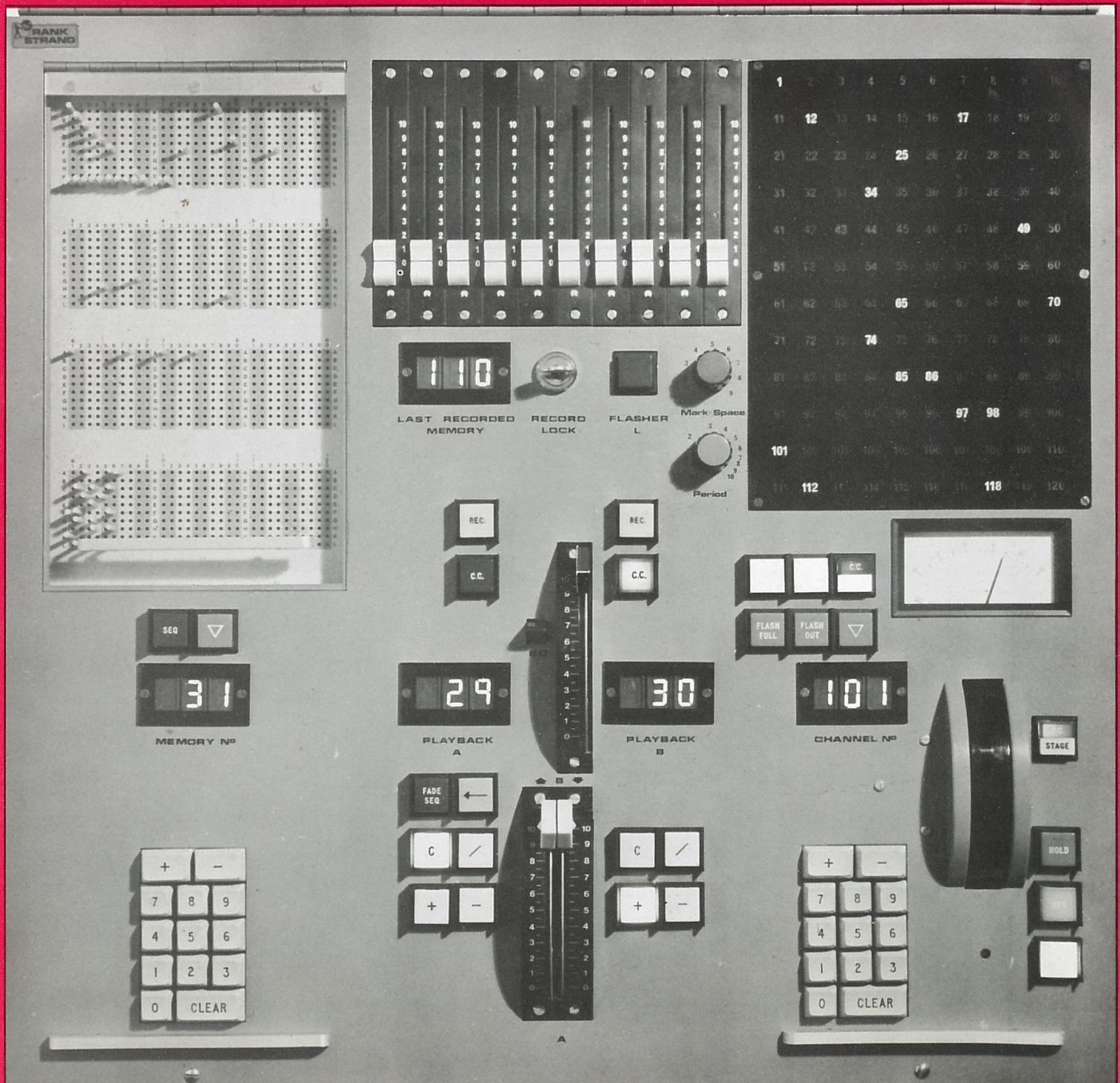
**COMPACT** can be fitted into an outside broadcast vehicle. The operational area, and the total volume, are no greater than the very rudimentary lighting controls that have sometimes been fitted in the past. The need for full facility dimmer memory control is no less when the cameras move to the event.

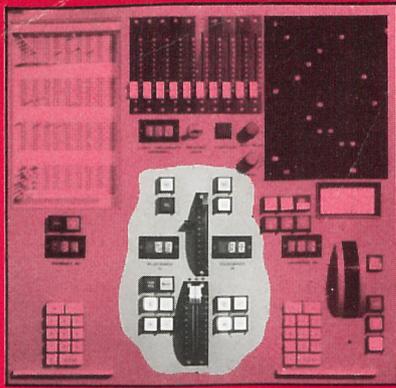
**COMPACT** on tour with a production is already plotted for the second and subsequent venues because the ferrite-core memory will retain all the precise intensity levels for all channels and all cues without power. Indeed the whole lighting design intent could be pre-plotted prior to arrival at the first venue—when all is rigged for the first time modification and re-recording are both so simple and fast that much valuable time could be saved.

**COMPACT** is basically contained in a flanged electronic crate with a hinged operational panel. Overall dimensions are 2 ft. (610mm) square by 18 in. (460mm) deep. Weight 110 lbs (50 kilos). In this basic form it can be inserted in a production desk. Enclosures suitable for touring can be supplied. Provision for ventilation is not onerous but must not be disregarded. Internally all printed circuit cards are identical to those for MMS—an important consideration for proven-reliability and availability of spares.

All intensity level control, processing and storage is in 8-bit code, i.e. 255 discrete levels between zero and full intensity for each control channel. The system response time to commands is typically less than 40 milliseconds. The control signal output to each channel is 0 to -10v terminated in blocks of 20 channels. The local power supply required is 5 amp at 220 or 240 volt 45/60 Hz (120 volt input available if specified.)

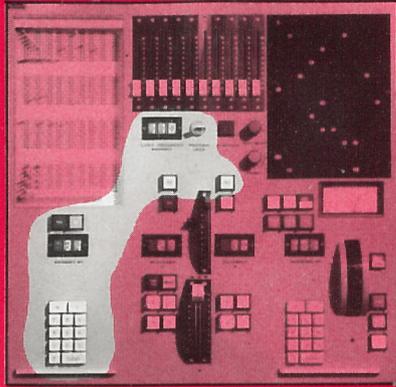
# COMPACT





**COMPACT** has a twin fader lever unit to execute a dipless crossfade from the intensity levels existing in Playback A to those in Playback B, and vice-versa. Whilst one Playback is 'active' the other is 'blind'. Both these Playbacks are local stores either of which can be selected for the initial composition of a complete lighting cue, channel by channel, by the intensity level modification facilities described below. The end result can be recorded and subsequently instantly recalled, whenever and as often as required, into either the 'live' or 'blind' Playback, perhaps to be modified to form a different lighting cue. Recalled memories can be added together or subtracted one from another.

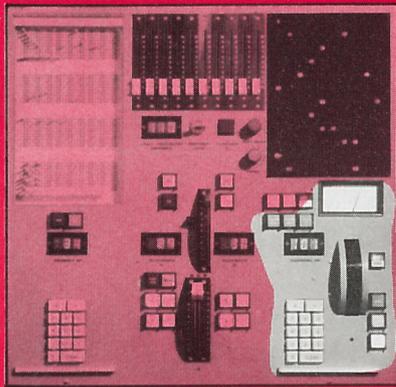
The crossfade between the two Playbacks can be profiled when required because one fader controls only those channels increasing in intensity and the other adjacent fader those decreasing in intensity. A master fader is also provided to provide a proportional cut.



**COMPACT** has a ferrite-core memory to store precise intensity levels required from each control channel. The memory can store up to 130 different lighting cues when the maximum of 120 control channels is fitted. Storage capacity is increased if significantly less channels are fitted.

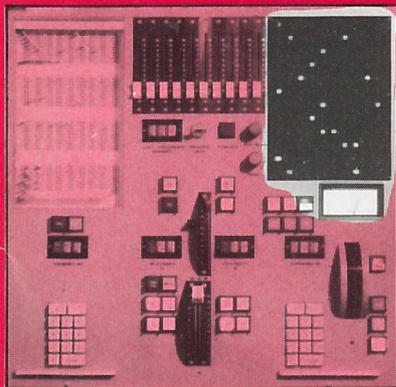
The intensity levels required can be recorded from either Playback store. The keyboard at the left hand side is used to select a Memory number to positively identify the complete cue. The same keyboard is used to recall a Memory number to either Playback where the intensity levels can be substituted for the existing information, or added, or subtracted. If a modification to some intensity channels is made the revised cue can be re-recorded with the same Memory number. The Last Recorded Memory number is displayed until the Record Lock key is removed which prevents further recording but does not inhibit recall.

The Memory number keyboard provides random access to the memory but a Sequence facility can be invoked to automatically advance the number by one and substitute the information into the non-active Playback on the completion of each crossfade.



**COMPACT** has the Rank Strand digital fader wheel to modify the intensity level of any channel number selected on the adjacent keyboard. Modification can be 'active' or 'blind' depending upon which Playback has been selected for Channel Control. The fader wheel never has to be matched to the existing intensity level but increases or decreases the intensity according to the amount, rate and direction of movement applied. When a different channel number is selected the previous, and indeed all other channels, remain undisturbed.

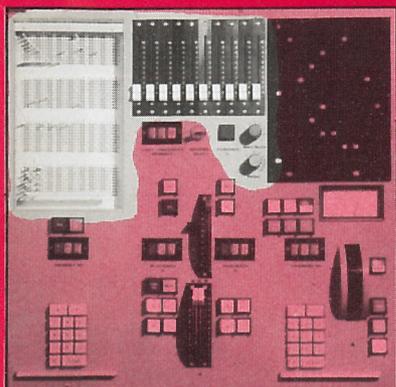
Other controls associated with an individual channel are a Return facility to allow the selected channel to revert to the intensity it was at before being modified, Flash Full and Flash Out to aid identification at rehearsal, and a Hold facility which allows the selected channel to be held under local control independent of a crossfade.



**COMPACT** has a full display of all channels in use by rear illumination of the channel number whenever that channel is above zero intensity. This display can be of the content of either Playback depending upon which one has been selected for Channel Control. Therefore it is always possible to preview the content of the 'blind' Playback. Alternatively the display can be switched to show the content of the total, combined output of the system.

The precise intensity level of any channel is shown on the meter whenever that channel number is selected.

Numerical indicators, elsewhere on the panel, are large and clear. All pushes and alternate-action switches are colour-coded and internally illuminated whenever this this can provide a visual reminder.



**COMPACT** has auxiliary facilities for direct fader lever control of ten groups of control channels. A 120 channel x 10 group pin-patch matrix, recessed below a hinged transparent cover, is used with yellow 'add' pins to determine which channel, or channels, are to be grouped to which fader lever. In addition an automatic Flasher facility can be invoked on the tenth group.

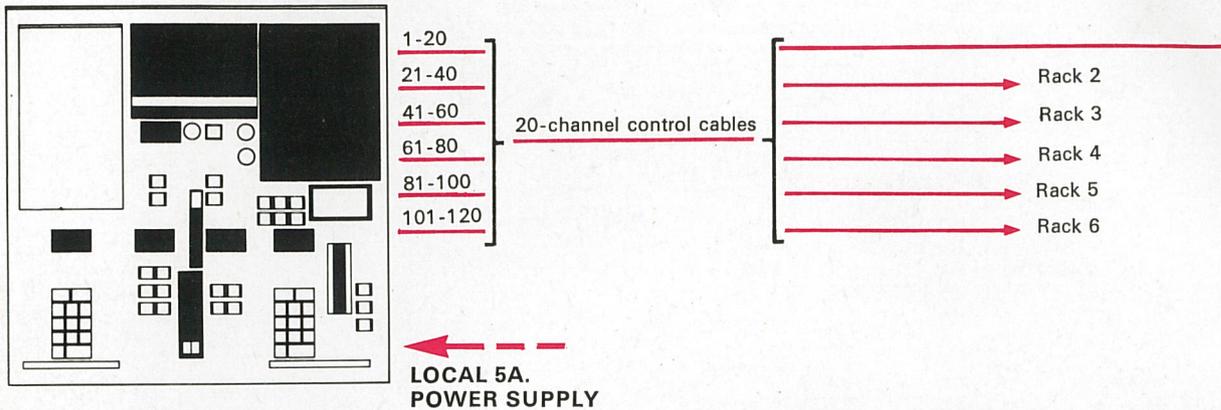
This direct control is extremely useful for camera headlights in television applications or for presentation, call or rehearsal lighting in a theatrical situation. It also provides independent back-up facilities.

Other Portable Memory Systems, for a greater number of channels, or with extended facilities including transfer to and from magnetic tape cassette for repertoire storage, can be supplied. These incorporate standard MMS modules in a desk enclosure suitable for transportation.

The Company reserves the right to make any variation in design or construction to the equipment described.

# DISTRIBUTION

## COMPACT with 20-dimmer STM racks



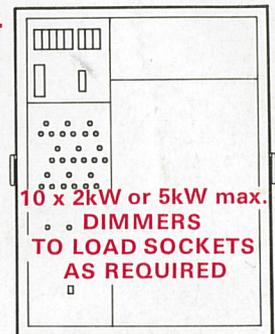
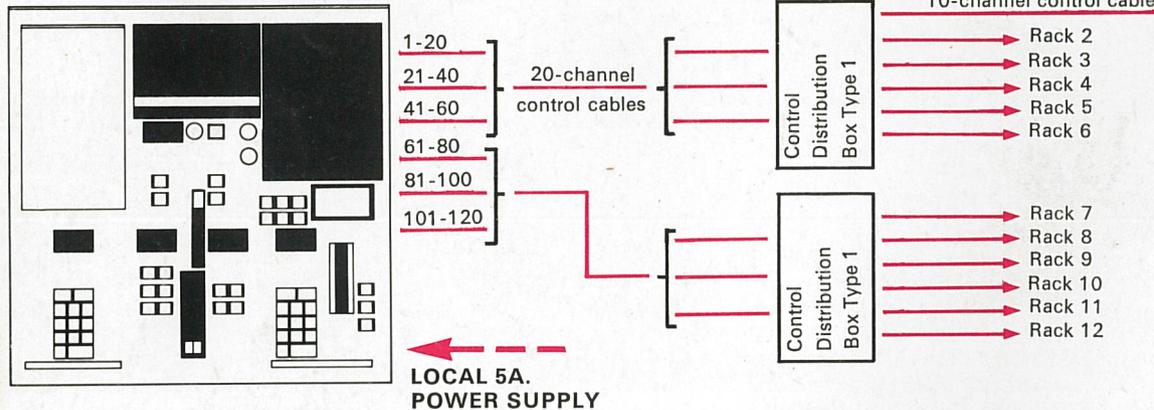
POWER SUPPLY



For permanent installations or for incorporation in purpose-built dimmer trucks.

20-channel STM Thyristor Dimmer Racks for 2kW or 5kW max. 220/240v\* dimmers. Power input to each rack 1, 2 or 3 phase, neutral and earth as specified. Output to load terminals.

## COMPACT with 10-dimmer portable racks

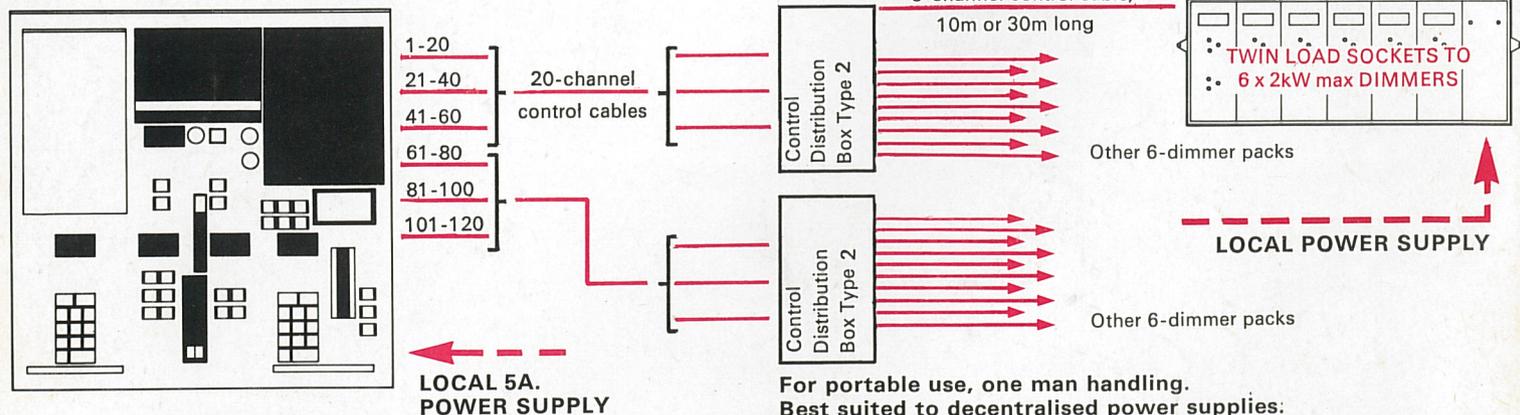


POWER SUPPLY

For portable use, two man handling

10-channel portable Thyristor Dimmer Racks for 2kW or 5kW max. 220/240v\* dimmers. Power input and output sockets as required.

## COMPACT with 6-dimmer Mini 2 packs



LOCAL POWER SUPPLY

For portable use, one man handling.

Best suited to decentralised power supplies:

6-channel Mini-2 Thyristor Dimmer Packs for 2kW max. 220/240v\* dimmers. Local power input single phase, neutral and earth with twin 15A output sockets, or 3 phase, neutral and earth with twin Schuko output sockets.

\*Similar equipment is available for 120v.



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