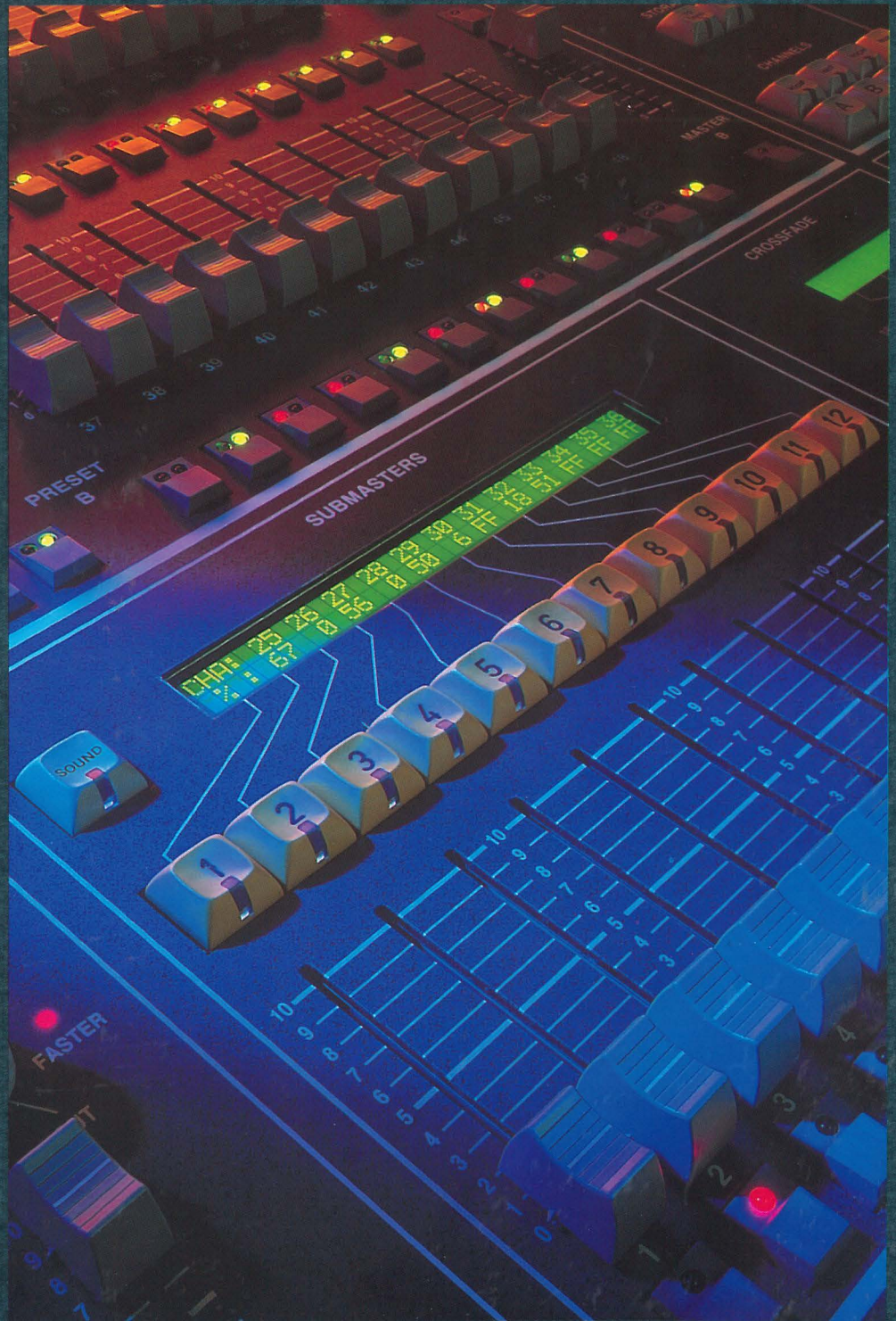# CANTOR

Manual / Memory Lighting Control Desk

The Ultimate
in small
Control Boards

ADB

A Siemens Company

CANTOR
The Ultimate in small Control Boards

Manual or Memory the Choice is yours

In MANUAL mode: CANTOR achieves everything one comes to expect from a small preset board. It can be set to either 24 ways with two presets or 48 ways of single preset. Features include channel flash, preset flash, soft patch of up to 512 dimmers, plus 12 submasters which can be individually programmed. Whilst locked in manual mode all other features are de-activated.
In MEMORY mode: CANTOR instantly changes into a powerful 48 way memory control system.

No Video Monitor required

A series of 48 green LED's give full indication of channels active in presets, submasters, memories or effects. Possibility to work in BLIND mode.
A second set of red LED's show which channels are live on stage.
Two LCD displays give details of channels and their levels, in group of 12 within each memory page.

Easy to use Keyboard

Allows fast access to memory selection, chasers, effects & fade in & out times. NEXT and LAST keys allow direct access to last & next cue.
Fast key action to load the sum of several cues into a submaster or a memory, copy a preset into a memory or a submaster, recording submaster into a memory, loading a memory into a submaster.
Each submaster has its own selection button in addition to the flash button.

Patch up to 512 Dimmers

Both manual & memory modes feature completely different soft patch of up to 512 dimmers on DMX. A LIMIT function acts proportionally on the output of each channel.

Banks & Memories

You hesitate between individual memories as used in theatre and "banks" of submasters as used in the rock world?
This is no problem for CANTOR as up to 20 lighting banks and 200 individual memories can be selected between 396 spaces.
This will even allow insertion of intermediate memories such as 7.1, 7.2 and 7.3 etc. inserted between memories 7 and 8.

MIDI

MIDI IN / THRU connections allowing the linking of many peripherals:
* synthesizers have an access to every function of CANTOR, among others the loading of a memory or an effect, the fade of a submaster of a preset or the general fade with or without relation to the played notes.
* audio visual applications can synchronise the CANTOR using any audio or video tape with a MIDI time code.
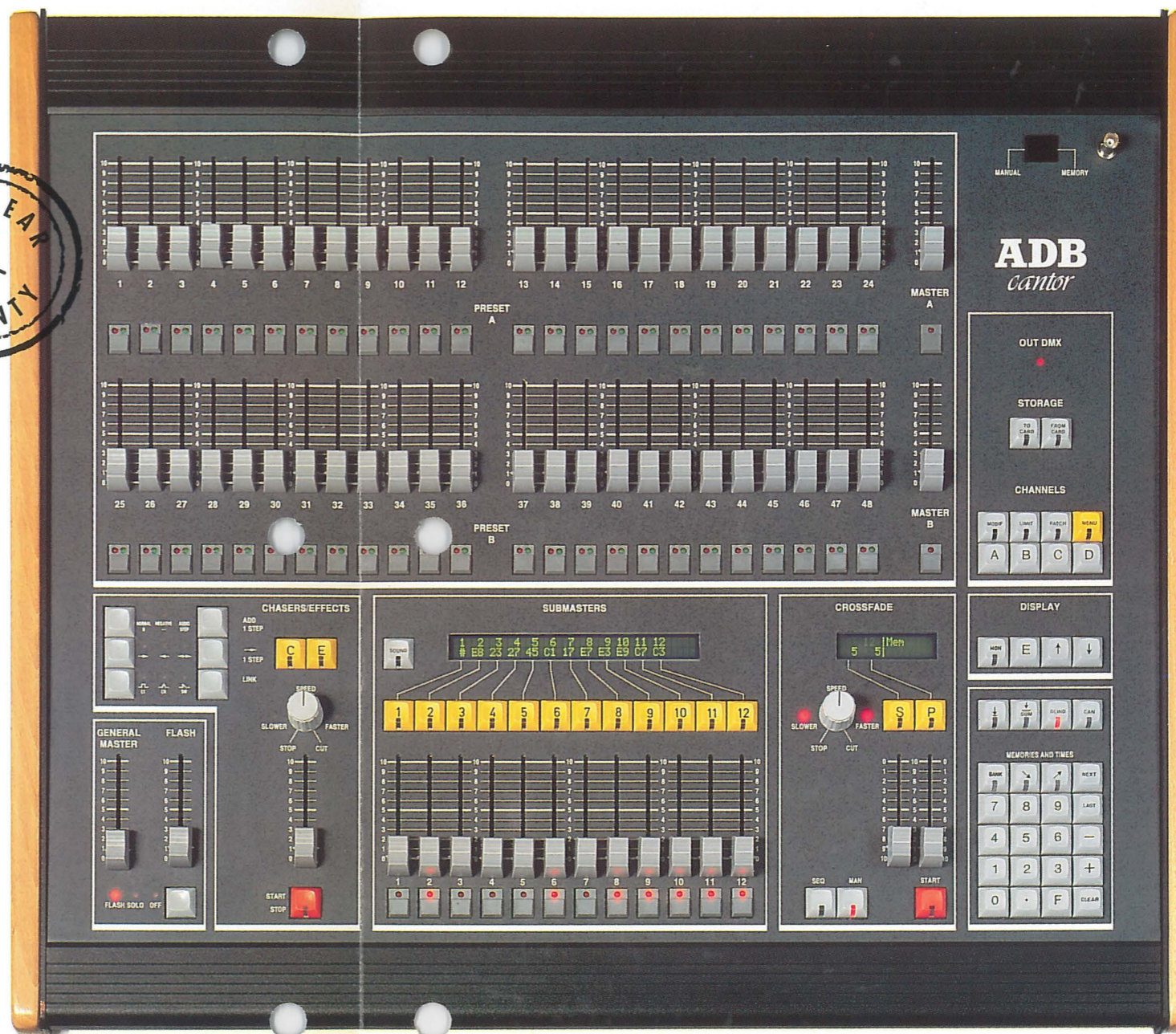
Instant Memory Card

By inserting the standard ADB Memory Card, the complete show can be stored or retrieved in less than one second.
Alternatively you can choose to selectively store, such as memory without the effects. Additionally a complete show can be transferred to other ADB desks such as the TENOR & the E 28 and conversely a memory card from a TENOR or E 28 can be read by the CANTOR.

The ideal small Board for Theatre

Cross fading between cues on the CANTOR has been carefully considered. There are two separate stage & preset submasters to control the playback of memories and effects. This can be set for sequential or manual selection of next cue with or without time delay. A rotary knob allows manual override of fade time. Modification of cue fade times in the memory is easily achieved without the necessity of re-recording the whole cue. Possibility of links allowing insertion of pre-programmed effects or added chasers into the sequence of memories.

The liquid crystal display gives a visual indication of crossfade progress : active memory on stage, preset, remaining cross fade time, whilst the green and red channel LED's monitor live and preset channel states. This means a permanent control of show progress. By pressing the START button, the next crossfade is automatically activated.

. . . for Rock Lighting

In addition to the submasters banks, CANTOR offers many special effect possibilities:
- 9 pre-programmed effects allowing a broad choice of audio and MIDI effects and flickers.
- 9 chase programmable sequences of 99 steps. Each channel can be at a different level at each step.
- manual speed control by rotary knob - up to 12 effects can be run simultaneously within the 12 submasters, each with instant control.

. . . for Television

The 12 submasters with effects and/or memories can be loaded individually or in block. Direct access to submasters and memories for corrections and re-record can be achieved in one operation via the MODIF function. Direct access to individual outputs is via the LIMIT function.

AND MORE !

CANTOR offers many additional features including:
- an audio signal for error which can be muted when required.
- the first board of this kind which integrates the programmable key (or macro) concept, so it can be compared to the most powerful memory systems.
- 8 external programmable lines which allow remote control of any function from a simple switch such as starting an effect, a memory, flash, memory retrieve, card content, patch modification, etc.
- Special short stroke flash buttons, different from the other buttons, allow a noticeable reduction in response time.

CANTOR offers all classic flash functions in normal or solo mode. There is one flash button per channel (48), one per preset (2 in manual mode) and one per submaster (12).

Technical Data

Power Supply :
110 / 220 / 240 V
(IEC 320-C14)
Frequency : 50 / 60 Hz
Output Signals to Dimmers :
- Standard:
  digital USITTDMX512/1990
  (XLR5-FX)
- Option:
  analogue 0 /+10 V
  and / or 370 μA
  (Socapex SLEF337-P)

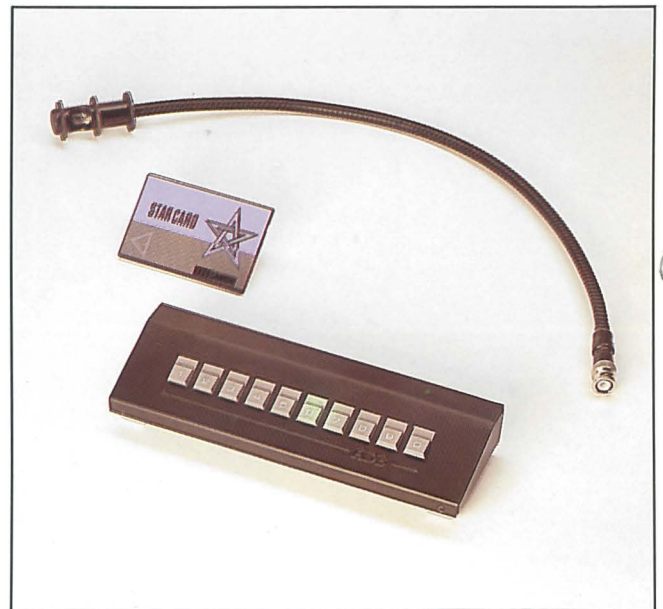| Channels	Dimmers	Outputs
48	512	USITT DMX 512/1990
48	512	DMX 512 via demultiplexer to 0/+10V or 370 μA
48	48	0/+10V or 370 μA

Audio Input for Effect
Modulation (5PDIN)

8 external Lines for Remote
Control (DE 09-S)

MIDI IN, THRU (5PDIN)

Dimensions:
610 X 685 X 135 mm

Weight: 11.8 kg

Packing :
760 X 700 X 230 = 0,123 m^3

Your Distributor:

Options

- 64 K Memory Card
- Remote Control Switch
  Desk for 8 External Lines.
- Flight Case
- Work Lamp
- 0 / +10 V and 370 μA
  Analogue Output Kit
- Demultiplexer 0/+10 V
- Demultiplexer 370 μA
- Wooden Cheeks

ADB designs and manufactures a extensive range of stage lighting equipment for larger or smaller installations. Please ask for our catalogue.

Subject to modifications

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