



After ending his education in 1963 and after doing his army service Finn moved to the Danish Atomic Energy Research Establishment for some years until in 1971 he joined the Danish TV service. He began in a workshop making various electrical devices and then entered the Planning Department in 1974 as a planning engineer in the studio/lighting group.

AARHUS TV? What is that?

Most people will ask where is Aarhus. Aarhus is the second largest town in Denmark. The town is on the East coast of Jutland, a half an hour flight from Copenhagen. The town has been called "The City of Smiles".

The history of Aarhus TV starts on 1st October 1962 where a beginning was made with 800m². This 800m² presumably held the world's smallest studio, with a size of 16m².

The extensions necessitated by developments were resolved by Danmarks Radio for a few years by the lease and purchase of the old theatre, but developments continued with some speed and it was eventually decided that the right thing was to build a new Aarhus radio and TV centre. Building started in 1970 with what was called Stage 1 embracing the radio section.

Stages 2 and 3, covering TV, were started in 1977 and adapted so that Stage 2 containing a 150m² studio was finished in 1980 and Stage 3 with a 600m² studio will be completed in mid 1982.

The small TV studio, ST11, is used for the production of documentaries together with serials and magazine programmes. The size of the studio is 150m². The ceiling height is 5m. Eighty motorised telescopes supplied by Telestage are suspended from the lamp ceiling. These are mounted permanently in the ceiling with a separation of 1.2m. Kahouteck 2½/5kW spotlights are used in the studio. The cyclorama is lit with Iris 2 units.

The lighting installation comprises 100 circuits in all.



AARHUS TV

by Finn Vaabंगाard



The studio with the "Light Trench" closed.

Part of the installation can be remote controlled by radio from the studio. Light settings can thus be carried out quickly while the lighting engineer with his remote control unit can select the telescopic unit from the studio floor and can guide it to the correct height and then switch on the Kahouteck, either to spot or soft light, as necessary, feed the instructions into the memory and then pass on to the next operation.

The size of the big TV studio ST12 is 600m². When this is completed it is intended to use it for the production of



The "Light Trench" in the open position — and all at the touch of a button.

musical programmes, including drama and entertainment. The cyclorama is 9.5m high. Along the studio walls and between the cyclorama and the studio floor there is a one metre wide trench from which the lower part of the cyclorama can be illuminated. In this way the transition between the floor and the cyclorama is invisible on the TV screen, giving an infinity effect. This trench can be closed so that the studio floor can be completely utilised right up to the studio walls. There are 116 booms and 10 hoists on the lighting ceiling for cyclorama lighting. These

Fixed T.S.A. Monopoles with their Kahoutecks. Note the C.E.E. plugs and sockets. The cables are self reeling.

are all supplied and installed by Telestage. As regards the lighting fittings, it is intended to have 1kW, 2kW, 2½/5kW together with the few 10kW Fresnel spotlights. For soft lighting it is intended generally to use 2½/5kW. Operation of the hoist and lighting installation can also be carried out by radio from the studio floor as for the ST11.

All in all we naturally consider that we have two studios which from the lighting engineering standpoint will meet requirements at present and for a long time in the future.

Paul Wild, the Manager of Strand Sales Operations has added a few technical points of clarification to the article by Finn Vaabंगाard.

Stage 1 — 150m² — Studio called ST11

1. The studio has 100 lighting circuits.
2. The Telestage motorised telescopes are fixed position and comply with DIN Safety Standards.
3. The studio is equipped with Quartz-color Kahouteck dual source soft-light/spotlights, fitted with 2½/5kW twin filament lamps plus Iris 2 Top Cyclorama units.
4. The studio is equipped with a memory control system and radio linked riggers control. This controls both the raising and lowering of telescopes plus the control of the lighting and memorises both.

Stage 2 — 600m² — Studio called ST12

1. Equipped with motorised hoists by Telestage.
2. Main feature of this studio, which is nearly unique, is the groundrow "lighting trench" around the studio. The groundrow units have been specially designed by Quartzcolor and are positioned in the pit. When used in conjunction with Iris 4 Top Cyclorama units, this produces an infinity effect for ballet productions, etc. When the groundrows are not required the pit can be covered at the touch of a button, enabling the maximum studio floor area to be utilised.
3. Cyclorama cloth height is 9.5 metres.
4. The studio is equipped with 10 specially designed cyclorama units. There are 116 2.5m length, general lighting hoists, all motorised.
5. Unlike the smaller studio, this studio is equipped with traditional spotlights and softlights from Quartzcolor, these include:—
Polaris 1kW spotlights
Castor 2kW spotlights
Pollux 5 and 2½/5kW spotlights
Vega 10kW spotlights
Antares 2½/5kW spotlights
6. All lanterns are pole operated.
7. The hoists and lighting rig can also be radio controlled from the studio floor.

ISSN 0306-9389


Rank Strand

© Rank Strand PO Box 51 Great West Road Brentford Middlesex TW8 9HR Telephone 01 568 9222 Telex 27976
A division of Rank Audio Visual Limited