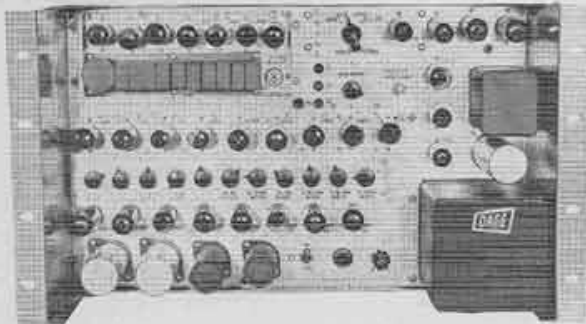


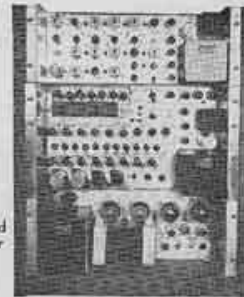


"NEW DEVELOPMENTS BEGIN WITH DAGE"



Model 410A Studio Sync Generator

Model 450A Color Subcarrier Generator and Divider

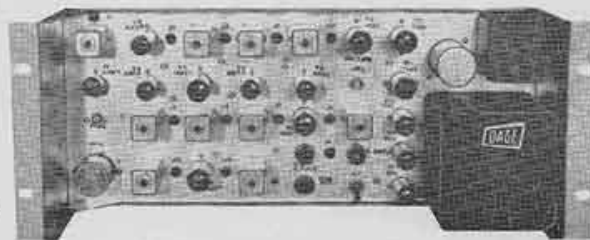


Model 410A Studio Sync Generator

Model 850A Regulated Power Supply for Color Camera Chain



Model 450A Color Subcarrier Generator and Divider



## MODEL 410A STUDIO SYNC GENERATOR and MODEL 450A COLOR SUBCARRIER GENERATOR

The Dage Model 410A studio sync generator meets the need for a high quality, low cost, rack mounted unit designed for monochrome or color operation.

The Model 410A can be purchased as a replacement or standby unit for your present monochrome operation. When you go to color there will be no need to modify or scrap your sync generator. The Dage Model 450A Color Subcarrier Generator and Divider can be mounted adjacent to the Model 410A. The Model 450A supplies the 3.579545 KC standard subcarrier frequency

to the colorplexer units and divides down to 31.5 KC to furnish the frequency reference to the 410A Sync Generator.

The 410A makes use of new magnetic binary counter circuits to provide foolproof frequency division which requires no adjustments. Pulse widths and timing are adjustable to meet all RETMA and FCC specifications.

Both the Model 410A and 450A units are complete with their own electronically regulated power supplies. See your Dage sales engineer for further details.

*See Reverse Side for Specifications*



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69 N. SECOND STREET • BEECH GROVE, INDIANA

DIVISION OF THOMPSON PRODUCTS

## SPECIFICATIONS

### MODEL 410A Studio Sync Generator

**Physical Dimensions:**

10 $\frac{1}{2}$ " H. x 19" W. x 7 $\frac{1}{2}$ " D. for standard rack mounting. Connectors and cables add approx. 2" to depth.

**Electrical:**

Power Input—95-130 volts, 60 cycle, 135 watts. Self-contained, electronically regulated power supply.

**Outputs—**

Mixed blanking pulses

Horizontal drive pulses

Vertical drive pulses

Sync pulses

Both positive and negative polarities available for all outputs, at 5V amplitude. Pulse widths and timing adjustable to RETMA standards. Pulse rise times meet RETMA and FCC requirements.

**Auxiliary Inputs:**

31,500 cycles from color frequency standard, 15V P.-P.

Ext. A.F.C. voltage and vertical phasing pulse for genlock control.

**Auxiliary Output:** 115V. AC to color frequency standard.

Frequency division utilizes binary dividers with magnetic circuits. Requires no adjustments.

Total number of tubes: 31.

### MODEL 450A—Color Sub-Carrier Generator and Divider

**Physical Dimensions:**

7" H. x 19" W. x 7 $\frac{1}{2}$ " D. Connectors and cables will add approx. 2" to depth.

**Electrical:**

Power Input—95-130 volts, 60 cycle, 110 watts to self contained regulated power supply.

Outputs—20V P.-P. at twice horizontal line frequency for synchronizing local sync generator. High impedance.

2 isolated outputs of 3.579545 MC. Subcarrier frequency, 15V. P.-P. into 75 ohm termination.

Frequency tolerance— $\pm .0003\%$ . Oven mounted crystal adjustable to exact frequency.

Total number tubes—14.

*Note: We reserve the right to change specifications without notice.*



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