



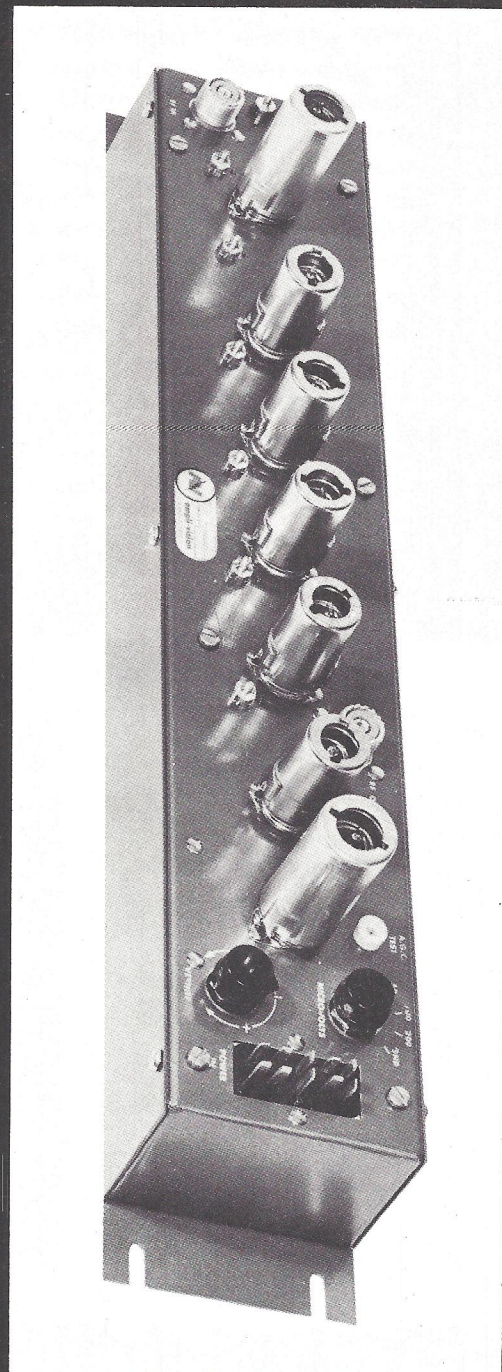
ampli-vision *tv channel amplifiers* *models 300-2 through 13*

features:

- 72 db gain on low VHF band and 60 db on high VHF band assure high output levels with signals as low as 50 microvolts.
- Low noise cascode input circuit gives high signal to noise ratios for clear, snow-free pictures.
- Full 6 mcs bandwidth with flat frequency response ± 1 db brings maximum picture quality.
- AGC adjustable with four position switch and vernier for optimum threshold setting.
- Distortion-free amplification with signals up to 10,000 microvolts.
- Conservative design and highest quality components minimize maintenance work.

uses:

- Channel amplifiers at the antenna sites of community TV antenna systems.
- At distribution centers, channel amplifiers permit resetting individual channel levels between transmission and distribution systems.
- For major level readjustment on long lines, signals on individual channels may be taken off and boosted.
- As line amplifiers in single channel transmission and distribution systems.
- For closed TV systems in factories and schools.
- For multiple TV installations in TV stores, hotels, motels and apartment houses.



ampli-vision

a division of The International Telemeter Corp., 2000 Stoner Avenue, L.A. 25, Calif.

ampli-vision

tv channel amplifiers

models 300-2 through 13

description:

Each Ampli-Vision Channel Amplifier, Models 300-2 through 13, amplifies signals on one of the twelve TV channels. The number following the dash in the model number indicates the channel. The amplifiers combine high 72-60 db gain with an extremely stable output and a flat 6 mcs frequency response with excellent adjacent channel rejection. The AGC system built into these amplifiers is so sensitive that it will hold on signals as low as 50 microvolts. Extra capacitive padding across tuned circuits makes frequent realignment unnecessary.

The amplifier consists of a cascode input followed by four double-tuned stages and a two stage AGC system.

Forming part of the Ampli-Vision line of RF transmission and distribution system equipment, these amplifiers have been designed for selective amplification of low level signals at the head ends of community TV antenna systems.

specifications:

Gain:

Low band: +72 db nominal
High band: +60 db nominal

AGC: Four positions:

INPUT	MAX. OUTPUT
1. 50 microvolts	.25 volts RMS
2. 100 microvolts	.5 volts RMS
3. 200 microvolts	1 volt RMS
4. No AGC	1.25 volts RMS

Holds output rise to 1 db for every 10 db rise in input.

Tubes:

Cascode Input—6BQ7A.
Four Double Tuned Amplifier Stages—6AK5's
One AGC Amplifier—6AK5
One AGC Rectifier and Amplifier—12AT7

Voltages:

Voltages for four (4) channel amplifiers are furnished by one (1) Ampli-Vision Model 40 Power Supply.

Voltages are:

- +250 volts for cascode input.
- +105 volts, regulated, for amplifier plates and screens.
- 105 volts, regulated, for AGC system.
- 6.3 volts a-c for filaments.

Maximum Input Signal:

10,000 microvolts without distortion.

Bandwidth:

6 mcs. with response flat to ± 1 db.

Impedance:

Input and output: 75 ohms.

Construction:

Constructed of only the highest quality components, rigidly mounted for strength and stability. Chassis is double shielded.

Finish:

Strato-blue, baked metallic enamel.

Dimensions:

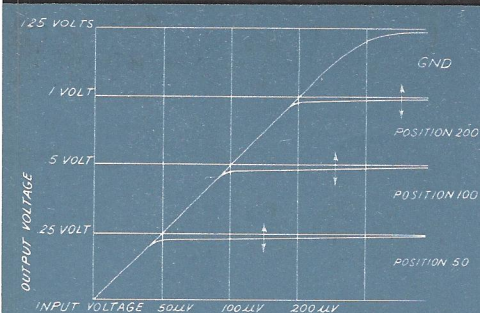
3 1/4" wide x 19" long x 4" high.

Weight:

5 1/2 pounds.

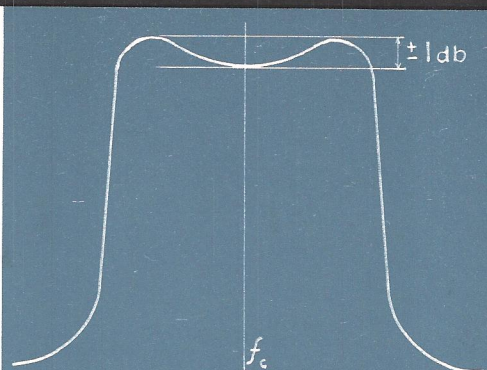
Mounting:

The Model 300 Channel Amplifier may be mounted in standard 19 inch racks or in Ampli-Vision pole boxes.



The AGC action:

A four position switch may be set to make the AGC action begin at 50, 100, or 200 microvolts or to eliminate the AGC action altogether. The AGC system limits output changes to 1 db for every 10 db change in input. The vernier control permits varying the output above and below each setting of the AGC switch.



Frequency Characteristic:

The frequency response of these amplifiers is ideal. Double tuned coupling circuits give a response curve with a virtually flat top varying less than ± 1 db over the 6 mcs. range.

Designed by men in the community TV antenna system field, AMPLI-VISION equipment provides trouble-free, low-loss transmission and distribution of VHF TV signals. Before being released to the market, all AMPLI-VISION components are field tested in our actual system under severe operating conditions. Only products which pass these tests ever reach the public.

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