AUTOGRAM

Mini-Mix 8

GOOD THINGS COME IN SMALL PACKAGES
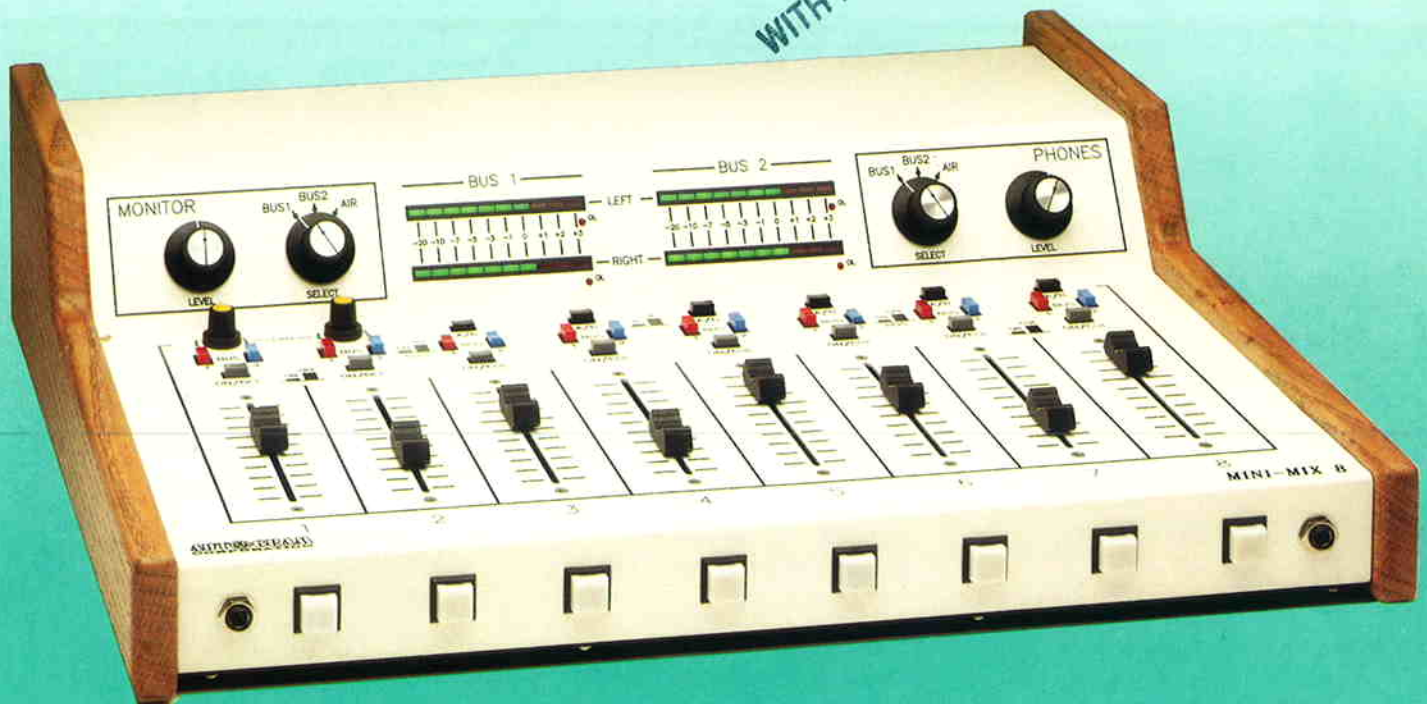
The new compact console by
AUTOGRAM CORPORATION

Mini-Mix 8
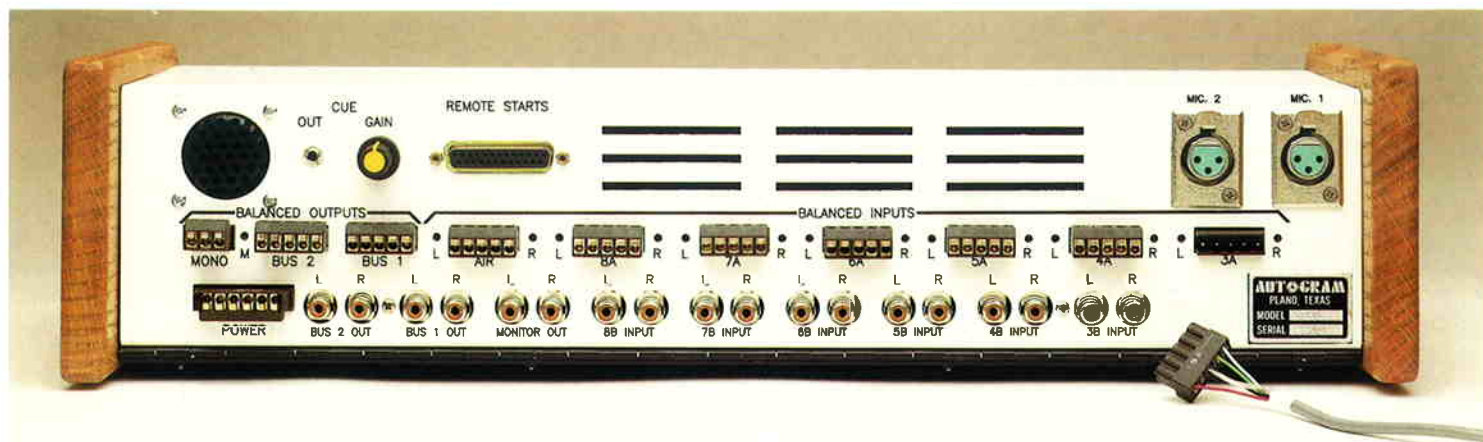
Features

Professional audio console:

- Aluminum case - Oak endbells

- 2 Stereo output buses

- Mono output

- 8 plug-in slide pots

- 12 Stereo inputs

    6 Unbalanced Stereo Phono Jacks for Consumer Equipment

    6 High-level balanced Pro-stereo inputs

- 2 Dedicated mike pots with pan

- All VCA operated

- Cue amplifier/speaker built in

- Light weight/Compact size

- Made in the USA — Plano, Texas

AUT⊙GRAM CORPORATION

1500 Capital Avenue
Plano, Texas 75074
(214) 424-8585
FAX (214) 423-6334
(800) 327-6901

Specifications

Input Characteristics

Sources:
12 Stereo Inputs
    6 Unbalanced Consumer
    6 Balanced Professional
2 Dedicated Mike inputs

Impedances:
Microphone, 150 ohm
High-level, 20k
External monitor, 20k

Levels:
Microphone, -65 to -50 dBm
High-level -10 to +10 dBv
External Monitor, -10 to +10 dBv

SNR:
Programs, better than -90dB at +18 dBm out

Power Source:
117 or 230 volt ac, 50-60 Hz

Mounting & Dimensions:
Table top with back connections
Height: 4.75 inches (12.07 cm)
Depth: 15.5 inches (39.37 cm)
Width: 19.38 inches (49.21 cm)
Weight: 9.5 lbs. (4.31 kg)
Shipping Weight: 25 lbs. (11.34 kg)

Output Characteristics

Outputs:
Stereo balanced, 2 buses
Stereo Unbalanced, 2 buses
Mono, balanced
Monitor amp feed, unbalanced
2 Headphone jacks

Impedances:
Programs 600 ohm balanced
10k unbalanced
Monitor 10k unbalanced
Phones 100 ohm
Cue 300 mw at 8 ohm

Levels:
Programs, +8 dBm nominal
+24 dBm maximum
Monitor -10dBv
Phones, 10 volts at 100 ohms

Distortion:
Programs/Monitor, less than .05% THD and IMD
Headphones less than 1% THD and IMD

Frequency Response:
Programs, ± 0.2 dB 20 to 20 kHz
Monitor, ± 0.2 dB 20 to 20 kHz
Phones, ± 0.5 dB 20 to 20 kHz

PACEMAKER 618
BUILT WITH INTENSIVE CARE

The new PACEMAKER console by

AUTOGRAM CORPORATION

Pacemaker 618

Features

- 6 Pots - 5 Dual and 1 with 8 inputs

- Machine control for all inputs

- Legend strip for each input

- VCA level control

- Electronic switching

- No audio transformers

- Penny and Giles linear conductive plastic pots

- Schadow selector switches

- Engraved front panel

- Pluggable miniature terminal strips

- Up to eight patchable microphone preamplifiers

- Easy input level selection

- Optional Autoclock or Autocount

Specifications

Input Characteristics

Sources:
18 stereo inputs
4 or 8 Microphone inputs

Impedances:
Microphone, 150 ohm
High level, 20 k ohm bridge or 600 ohm terminate
External monitor, 20 k or 600 ohm

Levels:
Microphone, –65 to –50 dBm
High level, –10 to +10 dBm
External monitor, –10 to +10 dBm

SNR:
Programs/Monitor, better than –90 dB at +18 dBm out
Headphone/Cue, better than –80 dB at 2 watts

Power Source:
117 or 230 volt ac, 50 - 60 Hz

Mounting & Dimensions:
Table top with bottom or back cable entry
Height: 9.25 inches   (23.49 cm)
Depth: 21.75 inches   (55.25 cm)
Width: 26.62 inches   (67.61 cm)

Output Characteristics

Outputs:
1 Stereo Program
1 Stereo Audition
1 Mix Minus
1 Mono
2 Line Monitor
2 Headphones
1 Cue

Impedances:
Programs/Monitor, 600 ohm balanced or unbalanced
Phone/Cue, 2 watt at 8 ohm

Levels:
Programs/Monitor, +8 dBm nominal
+24 dBm maximum
Headphone/Cue 2 watt at 8 ohm

Frequency Response:
Programs/Monitor, +0.1 dB 20 to 20 kHz
Headphone/Cue, ±0.5 dB 20 to 20 kHz

Distortion:
Programs/Monitor, less than .05% THD and IMD
Headphone/Cue, less than .1% THD and IMD

PACEMAKER 1644
BUILT WITH INTENSIVE CARE

Pacemaker 1644

Features

- 16 Pots - 14 Dual and 2 with 8 inputs each
- Machine control for all inputs
- Legend strip for each input
- VCA level control
- Electronic switching
- No audio transformers
- Penny and Giles linear conductive plastic pots
- Schadow selector switches
- Engraved front panel
- Pluggable miniature terminal strips
- Up to eight patchable microphone preamplifiers
- Easy input level selection
- Optional Autoclock or Autocount

Specifications

Input Characteristics

Sources:
44 stereo inputs
4 or 8 Microphone inputs

Impedances:
Microphone, 150 ohm
High level, 20 k ohm bridge or 600 ohm terminate
External monitor, 20 k or 600 ohm

Levels:
Microphone, -65 to -50 dBm
High level, -10 to +10 dBm
External monitor, -10 to +10 dBm

SNR:
Programs/Monitor, better than -90 dB at +18 dBm out
Headphone/Cue, better than -80 dB at 2 watts

Power Source:
117 or 230 volt ac, 50 - 60 Hz

Mounting & Dimensions:
Table top with bottom or back cable entry
Height: 9.25 inches (23.49 cm)
Depth: 21.75 inches (55.25 cm)
Width: 43.625 inches (110.81 cm)

Output Characteristics

Outputs:
Stereo Program
1 Stereo Audition
1 Mix Minus
1 Mono
2 Line Monitor
2 Headphones
1 Cue

Impedances:
Programs/Monitor, 600 ohm balanced or unbalanced
Phone/Cue, 2 watt at 8 ohm

Levels:
Programs/Monitor, +8 dBm nominal
+24 dBm maximum
Headphone/Cue 2 watt at 8 ohm

Frequency Response:
Programs/Monitor, $\pm$0.1 dB 20 to 20 kHz
Headphone/Cue, $\pm$0.5 dB 20 to 20 kHz

Distortion:
Programs/Monitor, less than .05% THD and IMD
Headphone/Cue, less than .1% THD and IMD

AUTOGRAM CORPORATION

1500 Capital Avenue
Plano, Texas 75074
(214) 424-8585
FAX (214) 423-6334
(800) 327-6901

PACEMAKER 828
BUILT WITH INTENSIVE CARE

The new PACEMAKER console by
AUTOGRAM
CORPORATION

Pacemaker 828

Features

- 8 Pots - 6 Dual and 2 with 8 inputs each

- Machine control for all inputs

- Legend strip for each input

- VCA level control

- Electronic switching

- No audio transformers

- Penny and Giles linear conductive plastic pots

- Schadow selector switches

- Engraved front panel

- Pluggable miniature terminal strips

- Up to eight patchable microphone preamplifiers

- Easy input level selection

- Optional Autoclock or Autocount

Specifications

Input Characterisitics

Sources:
28 stereo inputs
4 or 8 Microphone inputs

Impedances:
Microphone, 150 ohm
High level, 20 k ohm bridge or 600 ohm terminate
External monitor, 20 k or 600 ohm

Levels:
Microphone, -65 to -50 dBm
High level, -10 to +10 dBm
External monitor, -10 to +10 dBm

SNR:
Programs/Monitor, better than -90 dB at +18 dBm out
Headphone/Cue, better than -80 dB at 2 watts

Power Source:
117 or 230 volt ac, 50 - 60 Hz

Mounting & Dimensions:
Table top with bottom or back cable entry
Height: 9.25 inches (23.49 cm)
Depth: 21.75 inches (55.25 cm)
Width: 26.62 inches (67.61 cm)

Output Characteristics

Outputs:
1 Stereo Program
1 Stereo Audition
1 Mix Minus
1 Mono
2 Line Monitor
2 Headphones
1 Cue

Impedances:
Programs/Monitor, 600 ohm balanced or unbalanced
Phone/Cue, 2 watt at 8 ohm

Levels:
Programs/Monitor, +8 dBm nominal
+24 dBm maximum
Headphone/Cue 2 watt at 8 ohm

Frequency Response:
Programs/Monitor, $\pm$0.1 dB 20 to 20 kHz
Headphone/Cue, $\pm$0.5 dB 20 to 20 kHz

Distortion:
Programs/Monitor, less than .05% THD and IMD
Headphone/Cue, less than .1% THD and IMD

PACEMAKER 1032
BUILT WITH INTENSIVE CARE

The new PACEMAKER console by

AUTOGRAM CORPORATION

Pacemaker 1032

Features

- 10 Pots - 8 Dual and 2 with 8 inputs each.

- Machine control for all inputs

- Legend strip for each input

- VCA level control

- Electronic switching

- No audio transformers

- Penny and Giles linear conductive plastic pots

- Schadow selector switches

- Engraved front panel

- Pluggable miniature terminal strips

- Up to eight patchable microphone preamplifiers

- Easy input level selection

- Optional Autoclock or Autocount

Specifications

Input Characteristics

Sources:
32 stereo inputs
4 or 8 Microphone inputs

Impedances:
Microphone, 150 ohm
High level, 20 k ohm bridge or 600 ohm terminate
External monitor, 20 k or 600 ohm

Levels:
Microphone, -65 to -50 dBm
High level, -10 to +10 dBm
External monitor, -10 to +10 dBm

SNR:
Programs/Monitor, better than -90 dB at +18 dBm out
Headphone/Cue, better than -80 dB at 2 watts

Power Source:
117 or 230 volt ac, 50 - 60 Hz

Mounting & Dimensions:
Table top with bottom or back cable entry
Height: 9.25 inches (23.49 cm)
Depth: 21.75 inches (55.25 cm)
Width: 34.375 inches (87.31 cm)

Output Characteristics

Outputs:
Stereo Program
1 Stereo Audition
1 Mix Minus
1 Mono
2 Line Monitor
2 Headphones
1 Cue

Impedances:
Programs/Monitor, 600 ohm balanced or unbalanced
Phone/Cue, 2 watt at 8 ohm

Levels:
Programs/Monitor, +8 dBm nominal
+24 dBm maximum
Headphone/Cue 2 watt at 8 ohm

Frequency Response:
Programs/Monitor, ±0.1 dB 20 to 20 kHz
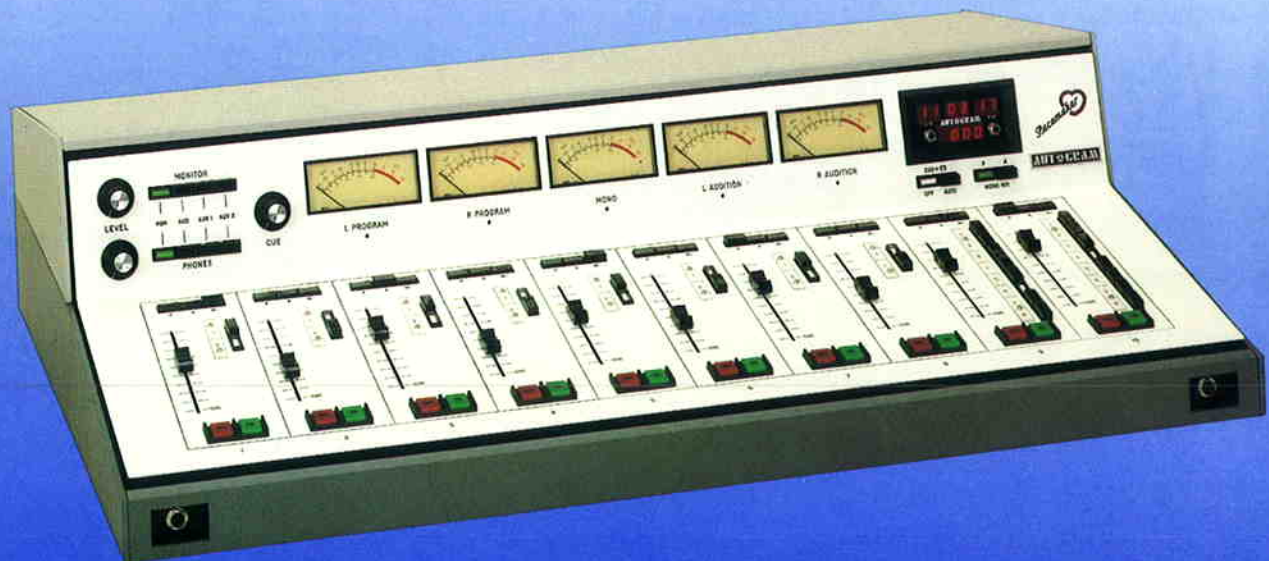Headphone/Cue, ±0.5 dB 20 to 20 kHz

Distortion:
Programs/Monitor, less than .05% THD and IMD
Headphone/Cue, less than .1% THD and IMD

AUTOGRAM CORPORATION

Pacemaker 648

Features

- 6 Pots with 8 inputs each
- Machine control for all 48 inputs
- Legend strip for each input
- VCA level control
- Electronic switching
- No audio transformers
- Penny and Giles linear conductive plastic pots
- Schadow selector switches
- Engraved front panel
- Pluggable miniature terminal strips
- Up to eight patchable microphone preamplifiers
- Easy input level selection
- Optional Autoclock or Autocount

Specifications

Input Characterisitics

Sources:
48 stereo inputs
4 or 8 Microphone inputs

Impedances:
Microphone, 150 ohm
High level, 20 k ohm bridge or 600 ohm terminate
External monitor, 20 k or 600 ohm

Levels:
Microphone, -65 to -50 dBm
High level, -10 to +10 dBm
External monitor, -10 to +10 dBm

SNR:
Programs/Monitor, better than -90 dB at +18 dBm out
Headphone/Cue, better than -80 dB at 2 watts

Power Source:
117 or 230 volt ac, 50 - 60 Hz

Mounting & Dimensions:
Table top with bottom or back cable entry
Height: 9.25 inches (23.49 cm)
Depth: 21.75 inches (55.25 cm)
Width: 26.62 inches (67.61 cm)

Output Characteristics

Outputs:
1 Stereo Program
1 Stereo Audition
1 Mix Minus
1 Mono
2 Line Monitor
2 Headphones
1 Cue

Impedances:
Programs/Monitor, 600 ohm balanced or unbalanced
Phone/Cue, 2 watt at 8 ohm

Levels:
Programs/Monitor, +8 dBm nominal
+24 dBm maximum
Headphone/Cue 2 watt at 8 ohm

Frequency Response:
Programs/Monitor, $\pm$0.1 dB 20 to 20 kHz
Headphone/Cue, $\pm$0.5 dB 20 to 20 kHz

Distortion:
Programs/Monitor, less than .05% THD and IMD
Headphone/Cue, less than .1% THD and IMD

All specifications subject to change without notice.
©1987 Autogram / 6350

1.   Each input (including remote lines and external monitor inputs) has gain range pads, switchable termination, and adjustable level control.

2. Both momentary and continuous open collector machine control are standard for each associated input.   Machine control follows input selection switches.

3. All audio and control connections are made using miniature screw-type connectors which plug into the associated circuit board.   No soldering, lugs, or special tools are required to install the console, just strip the wire, insert into connector, and tighten with a small screwdriver.

4. The audio and control circuitry are on individual plug-in boards for quick and easy exchange in case of problems.   All ICs are in sockets. Only a few IC types are used and are easily available.

5. Penny and Giles "long throw" faders are used for all mixers along with electronic switching and VCA (voltage controlled amplifier) level control.

6. Standard AUTOGRAM quality engraved front panels and new for the Pacemakers are legend strips for easy identification of input sources.

7. Four independent microphone pre-amplifiers with balanced input and output which can be patched to any console input.

8. DIP switch programming on each input board allows selection of muting parameters for each input. A microphone could be connected to a remote line input and muting would follow. The DIP switch also allows programming Cue defeat, Timer reset, and CUE-TO-PHONES for each input.

9. A MIX MINUS bus is included which is assignable by a front panel switch along with the PROGRAM and AUDITION bus assignment switches.

10. All switches and pots plug in for easy replacement. Each Mixer unit is an assembly and can be quickly replaced in the field.

11. Self contained power supply which uses plug-in interconnects for easy power supply replacement if ever required.

R/TV-12
THE CHOICE OF PROFESSIONALS
FULL-FEATURED
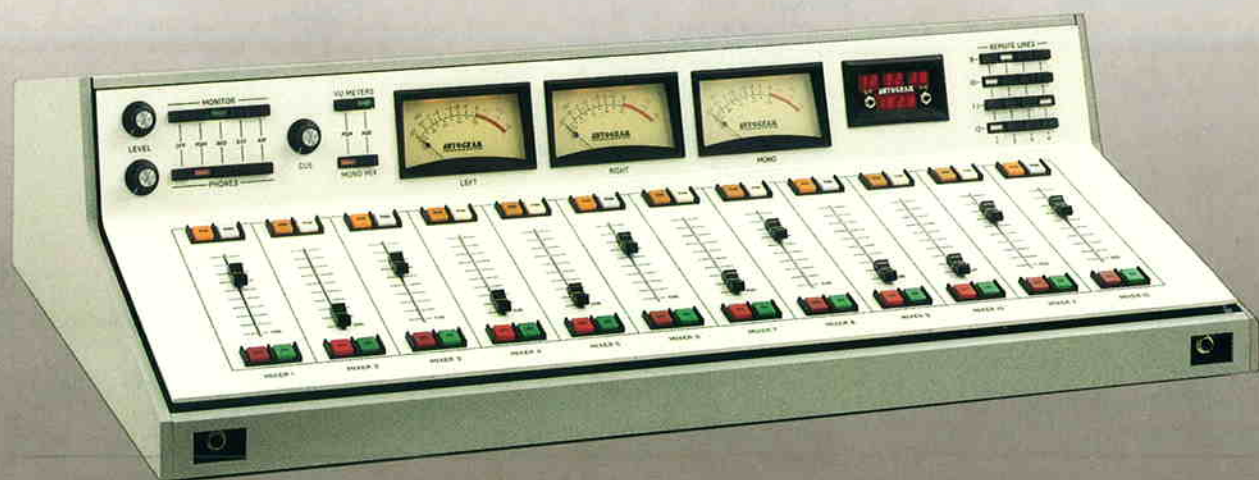
LIVE ASSIST OPTIONAL

BUILT WITH INTEGRITY BY

AUTOGRAM
CORPORATION

R/TV-12 Stereo Audio Console

•Stereo Radio
•Stereo TV

Features

- 8 Dedicated pots
- 4 Pots with 4 inputs each
- VCA level control
- Electronic switching
- No audio transformers
- Penny and Giles linear conductive plastic pots
- Schadow selector switches
- Engraved front panel
- Pluggable miniature terminal strips
- Up to eight patchable microphone preamplifiers
- Each channel remotely controllable
- Easy input level selection
- Optional interface card for logging to printer plus interfacing to Live Assist or Computer
- Optional Autoclock or Autocount

Specifications

Input Characteristics

Sources:
24 stereo inputs
4 or 8 Microphone inputs

Impedances:
Microphone, 150 ohm
High level, 20 k ohm bridge or 600 ohm terminate
External monitor, 20 k or 600 ohm

Levels:
Microphone, -65 to -50 dBm
High level, -10 to +10 dBm
External monitor, -10 to +10 dBm

SNR:
Programs/Monitor, better than -90 dB at +18 dBm out
Headphone/Cue, better than -80 dB at 2 watts

Power Source:
117 or 230 volt ac, 50 - 60 Hz

Mounting & Dimensions:
Table top with bottom or back cable entry
Height: 10 inches (25.4 cm)
Depth: 21.75 inches (55.25 cm)
Width: 37.5 inches (95.25 cm)

Output Characteristics

Outputs:
1 Stereo Program
1 Stereo Audition
2 Mix Minus
1 Mono
2 Line Monitor
2 Headphones
1 Cue

Impedances:
Programs/Monitor, 600 ohm balanced or unbalanced
Phone/Cue, 2 watt at 8 ohm

Levels:
Programs/Monitor, +8 dBm nominal
+24 dBm maximum
Headphone/Cue 2 watt at 8 ohm

Frequency Response:
Programs/Monitor, ±0.1 dB 20 to 20 kHz
Headphone/Cue, ±0.5 dB 20 to 20 kHz

Distortion:
Programs/Monitor, less than .05% THD and IMD
Headphone/Cue, less than .05% THD and IMD

AUTOGRAM CORPORATION
PO Box 456, 1500 Capital Avenue
Plano, Texas 75074
(214) 424-8585
800 327-6901

R/TV-20

THE CHOICE OF PROFESSIONALS

FULL-FEATURED

LIVE ASSIST OPTIONAL

BUILT WITH INTEGRITY BY

AUTOGRAM
CORPORATION

R/TV-20 Stereo Audio Console

- Stereo Radio
- Stereo TV

Features

- 18 Dedicated pots
- 2 Pots with 8 inputs each
- VCA level control
- Electronic switching
- No audio transformers
- Penny and Giles linear conductive plastic pots
- Schadow selector switches
- Engraved front panel
- Pluggable miniature terminal strips
- Up to eight patchable microphone preamplifiers
- Each channel remotely controllable
- Easy input level selection
- Optional interface card for logging to printer plus interfacing to Live Assist or Computer
- Optional Autoclock or Autocount

Specifications

Input Characteristics

Sources:
34 stereo inputs
4 or 8 Microphone inputs

Impedances:
Microphone, 150 ohm
High level, 20 k ohm bridge or 600 ohm terminate
External monitor, 20 k or 600 ohm

Levels:
Microphone, -65 to -50 dBm
High level, -10 to +10 dBm
External monitor, -10 to +10 dBm

SNR:
Programs/Monitor, better than -90 dB at +18 dBm out
Headphone/Cue, better than -80 dB at 2 watts

Power Source:
117 or 230 volts ac, 50 – 60 Hz

Mounting & Dimensions:
Table top with bottom or back cable entry
Height: 10 inches (25.4 cm)
Depth: 21.75 inches (55.25 cm)
Width: 44 inches (118 cm)

Output Characteristics

Outputs:
1 Stereo Program
1 Stereo Audition
2 Mix Minus
1 Mono
2 Line Monitor
2 Headphones
1 Cue

Impedances:
Programs/Monitor, 600 ohm balanced or unbalanced
Phone/Cue, 2 watt at 8 ohm

Levels:
Programs/Monitor, +8 dBm nominal
+24 dBm maximum
Headphone/Cue 2 watt at 8 ohm

Frequency Response:
Programs/Monitor, ±0.1 dB 20 to 20 kHz
Headphone/Cue, ±0.5 dB 20 to 20 kHz

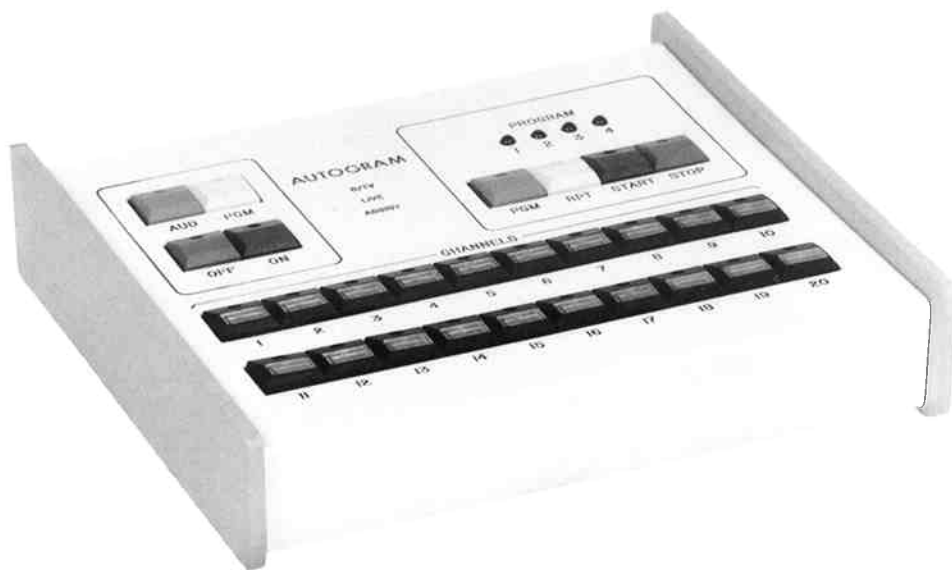**Distortion:**
Programs/Monitor, less than .05% THD and IMD
Headphone/Cue, less than .05% THD and IMD

AUTOGRAM
CORPORATION
PO Box 456, 1500 Capital Avenue
Plano, Texas 75074
(214) 424-8585
800 327-6901

"Live Assist" Package
For R/TV Series Radio & TV Stereo Consoles

Autogram's Live Assist Package consists of one microprocessor board, one control panel and one interface board with cable.

The Live Assist Package allows automatic operation of one bus while live work is being done on the other bus. It also enables the operator to program up to 32 sequential steps per program on each of four programs: a total of 128 steps.

The system offers complete and random selection of all console channels. It also allows remote control of each channel on the console using a small eight-wire cable.

The Live Assist Package is an option for use with Autogram's R/TV Series Stereo Radio and TV audio consoles: the R/TV-12 offers 24 stereo inputs; the R/TV-20 offers 34 stereo inputs.

The Live Assist Panel plugs into the R/TV Series Console and offers full remote control plus four live assist programs. Each program contains up to 32 steps.

With live assist, the operator can:
• Start, stop and select audio bus for each console channel via remote control
• Pre-program the start time and program sequence with bus selection for each channel
• Activate and set silence sense timing for program and audition buses
• Observe live assist status at all times
• Monitor sources to transfer on EOM or silence-sense
• Use multiple live assist panels for tandem remote control
• Override live assist at any time
• Obtain limited real-time up-dates for program format control
• Repeat or chain live assist programs for longer walk-away time

The Microprocessor Board plugs into the console's card cage. It decodes logging from tapes encoded by the Autogram Production Center and collects and dumps channel usage data to an external printer.
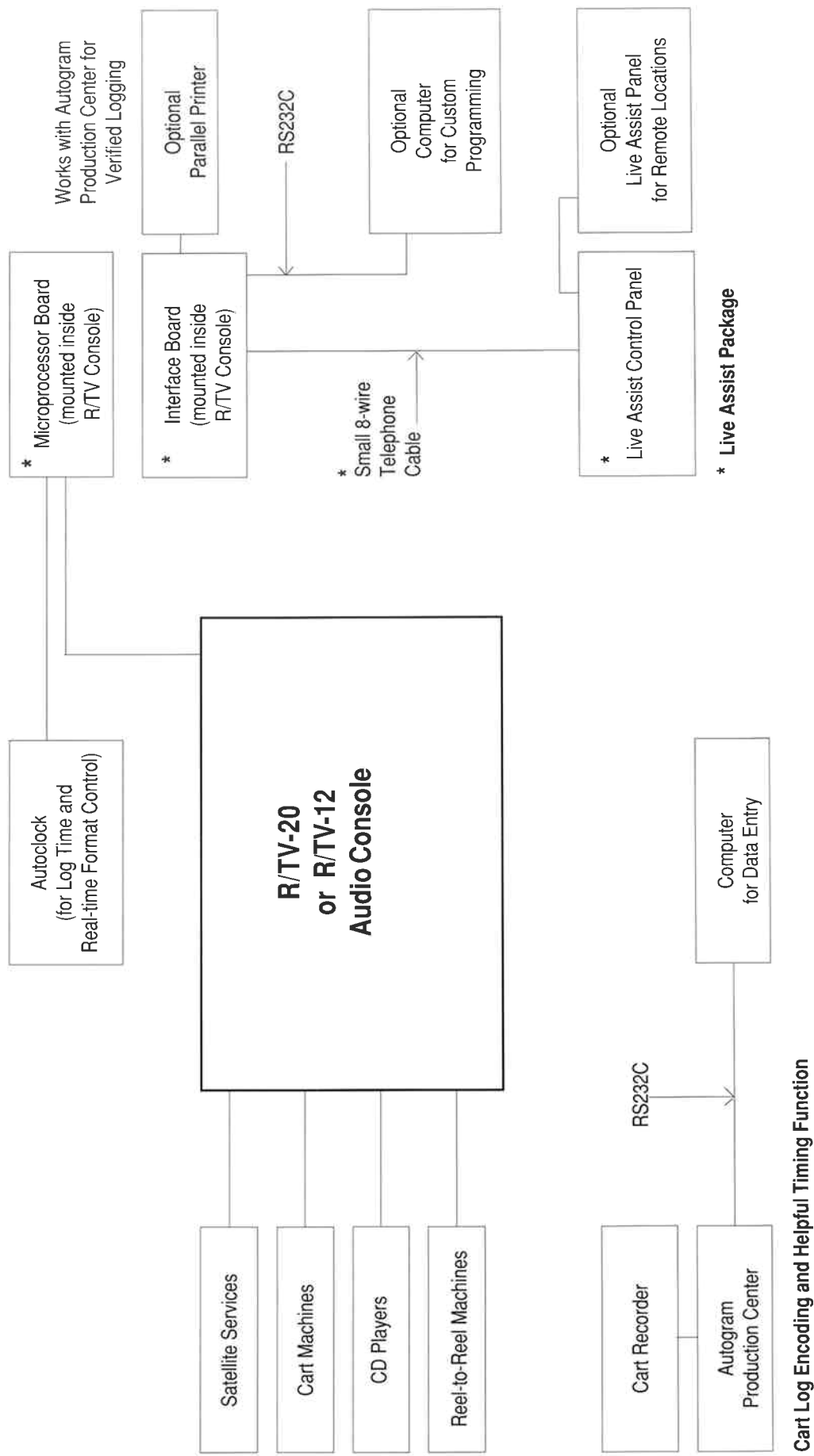
The microprocessor board has:
• A parallel printer port
• An RS232C port for communicating to either an external printer or a computer for optional computer control

Note: the external printer or computer and related interconnect cables are not included in the live assist package.

AUTOGRAM
CORPORATION
PO Box 456, 1500 Capital Avenue
Plano, Texas 75074
(214) 424-8585

Works with Autogram
Production Center for
Verified Logging

Optional
Parallel Printer

RS232C

Optional
Computer
for Custom
Programming

Optional
Live Assist Panel
for Remote Locations

* Microprocessor Board
(mounted inside
R/TV Console)

* Interface Board
(mounted inside
R/TV Console)

* Live Assist Control Panel

* Live Assist Package

* Small 8-wire
Telephone
Cable

Autoclock
(for Log Time and
Real-time Format Control)

R/TV-20
or R/TV-12
Audio Console

Computer
for Data Entry

Satellite Services

Cart Machines

CD Players

Reel-to-Reel Machines

RS232C

Cart Recorder

Autogram
Production Center

Cart Log Encoding and Helpful Timing Function

Autogram R/TV Live Assist System

AUTOGRAM

AC–6 Mono/Stereo Audio Console
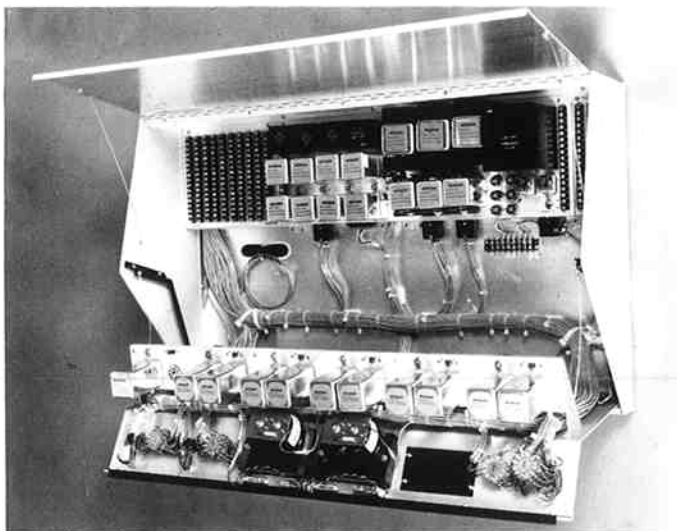
MOUNTING & DIMENSIONS:
  Table top with bottom or back cable entry
  Height: 10 in.; 25.4 cm.
  Depth: 20 in.; 50.8 cm.
  Width: 32-3/8 in.; 82.2 cm.

AUTOGRAM
CORPORATION
PO Box 456, 1500 Capital Avenue
Plano, Texas 75074
214-424-8585

SPECIFICATIONS

INPUT CHARACTERISTICS:

Sources:
  23 stereo inputs — customer's option as to use by plug-in modules
  1 high level cassette

Impedances:
  Microphone, 200 or 50 ohms
  High level 10K ohm bridge or 600 ohm terminate
  External monitor 10K ohm

Levels:
  Microphone -65 to -50 dBm
  High level -10 dBm to +10 dBm
  External monitor - 10 dBm to +10 dBm

Noise:
  Program/audition -120 dBm
  Monitor -110 dBm

Power Source:
  117 or 230 Vac 50-60 Hz single phase

OUTPUT CHARACTERISTICS:

Outputs (Depends on modules used)
  1 Stereo program
  1 Stereo audition
  2 Monitor amplifiers
  2 Headphone amplifiers
  1 Cue amplifier

Impedances:
  Program/audition 600 ohm balanced or unbalanced —
  Monitor 4-16 ohm unbalanced
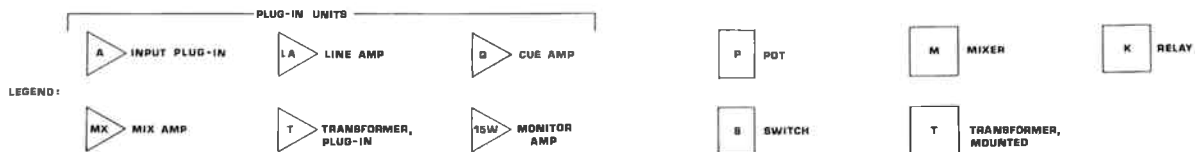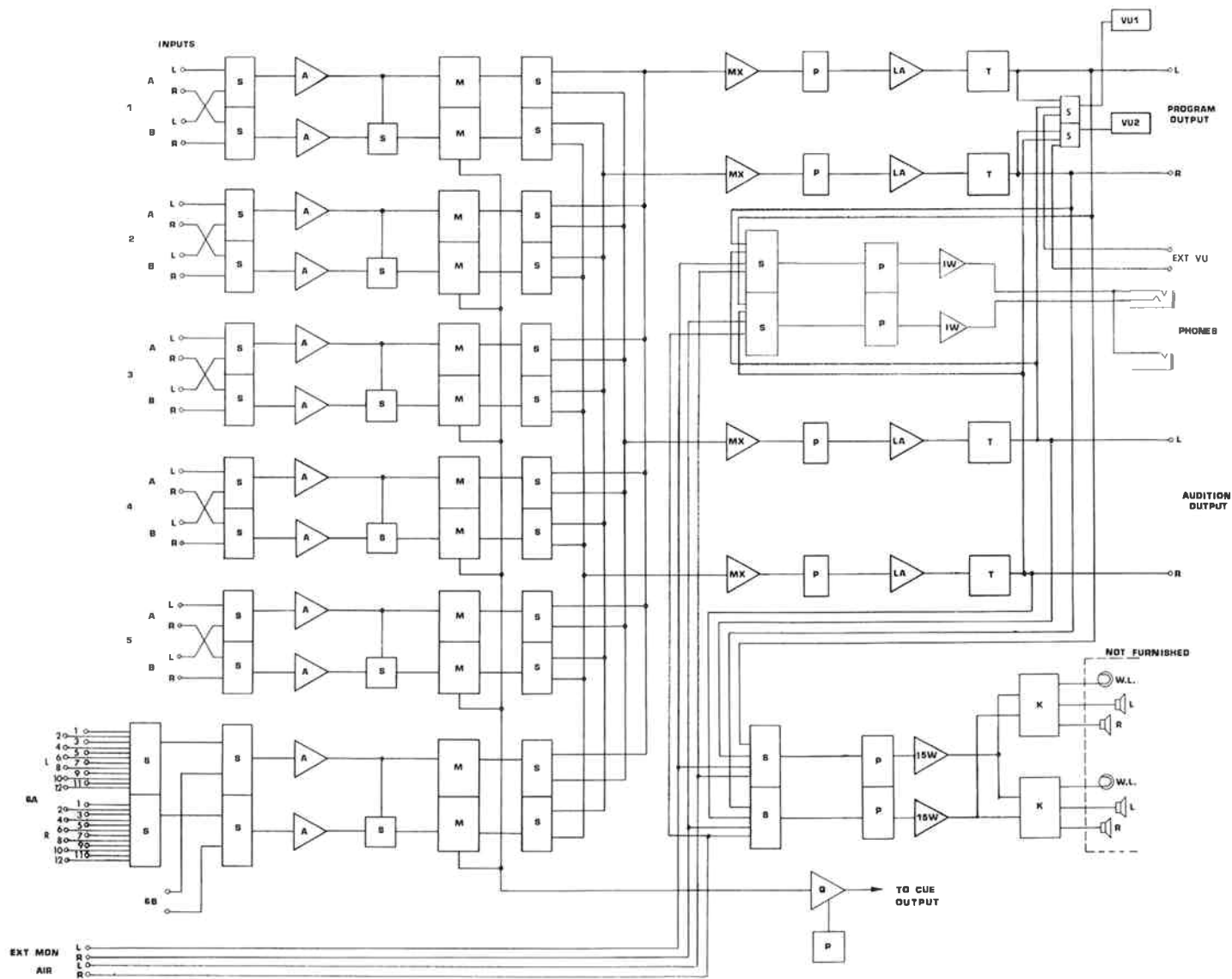 Cue 4-16 ohm unbalanced

Levels:
  Program/audition or mono: +8 dBm nominal — +24 dBm maximum
  Monitor — 15 watts RMS into 8 ohm load
  Cue and headset — 1 watt into 8 ohm load

Frequency Response:
  Program/audition ±1 dB 30 to 15K Hz
  Monitor ±1.5 dB 30 to 15K Hz

Distortion:
  Program/audition less than 0.5% THB
  Monitors less than 1.5% THD

INPUTS

LEGEND:

PLUG-IN UNITS

A — INPUT PLUG-IN
LA — LINE AMP
Q — CUE AMP
MX — MIX AMP
T — TRANSFORMER, PLUG-IN
15W — MONITOR AMP
P — POT
B — SWITCH
M — MIXER
T — TRANSFORMER, MOUNTED
K — RELAY

VU1
VU2
PROGRAM OUTPUT
EXT VU
PHONES
AUDITION OUTPUT
NOT FURNISHED
W.L.
L
R
TO CUE OUTPUT

EXT MON
AIR

BLOCK DIAGRAM
AC-6 AUDIO CONSOLE

4-24-78

AUT⦾GRAM

AC–8 Mono/Stereo Audio Console

MOUNTING & DIMENSIONS:
Table top with bottom or back cable entry
Height: 10 in.; 25.4 cm.
Depth: 20 in.; 50.8 cm.
Width: 37¼ in.; 94.6 cm.

AUT⦾GRAM
CORPORATION
PO Box 456, 1500 Capital Avenue
Plano, Texas 75074
(214) 424-8585

SPECIFICATIONS

INPUT CHARACTERISTICS:

Sources:
26 stereo inputs – customer's option as to use by plug-in modules
1 high level cassette

Impedances:
Microphone, 200 or 50 ohms
High level 10K ohm bridge or 600 ohm terminate
External monitor 10K ohm

Levels:
Microphone -65 to -50 dBm
High level -10 dBm to +10 dBm
External monitor - 10 dBm to +10 dBm

Noise:
Program/audition -120 dBm
Monitor -110 dBm

Power Source:
117 or 230 Vac 50-60 Hz single phase

OUTPUT CHARACTERISTICS:

Outputs (Depends on modules used)
1 Stereo program
1 Stereo audition
1 Monophonic program
2 Monitor amplifiers
2 Headphone amplifiers
1 Cue amplifier

Impedances:
Program/audition 600 ohm balanced or unbalanced – 10K ohm balanced or unbalanced
Monitor 4-16 ohm unbalanced
Cue 4-16 ohm unbalanced

Levels:
Program/audition or mono: +8 dBm nominal – +24 dBm mazimum
Monitor – 15 watts RMS into 8 ohm load
Cue and headset – 1 watt into 8 ohm load

Frequency Response:
Program/audition ±1 dB 30 to 15K Hz
Monitor ±1.5 dB 30 to 15K Hz

Distortion:
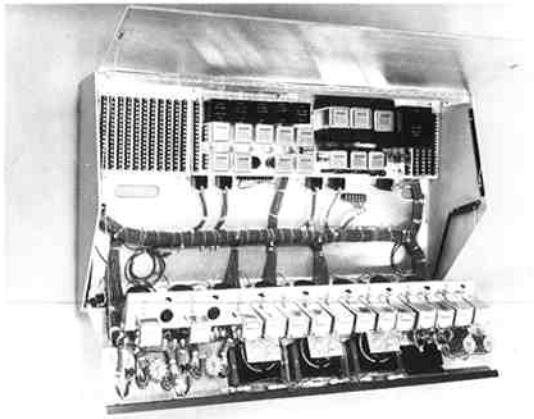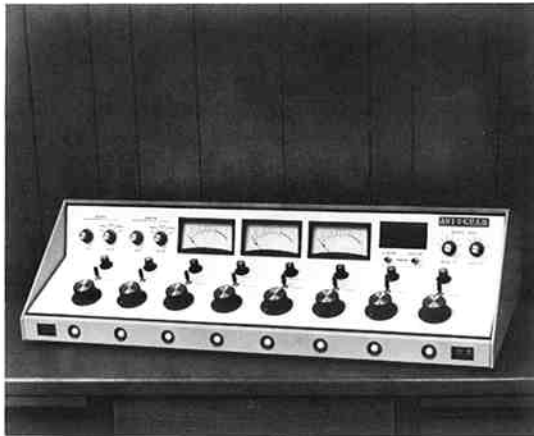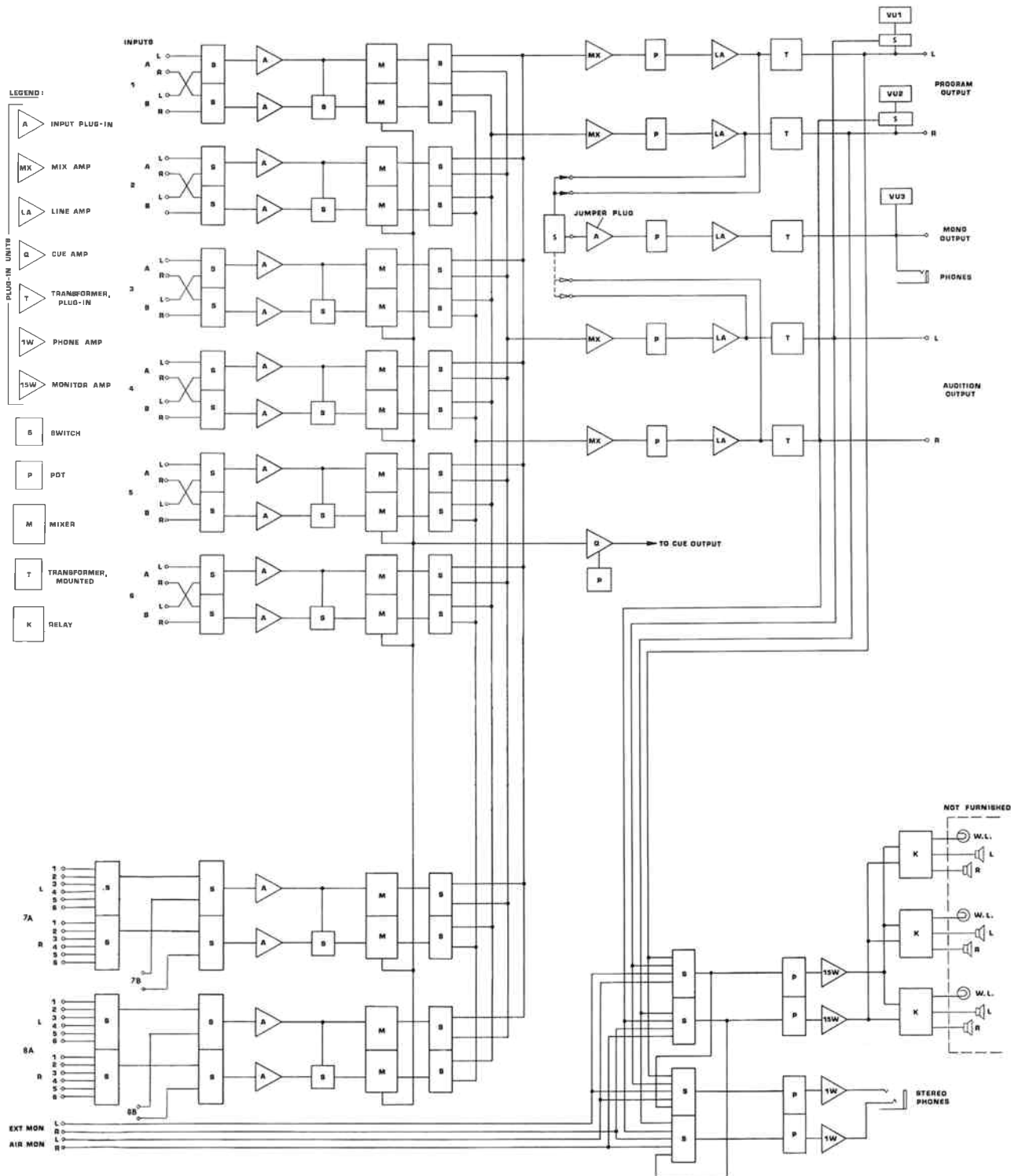Program/audition less than 0.5% THB
Monitors less than 1.5% THD

INPUTS

LEGEND:

PLUG-IN UNITS

A	INPUT PLUG-IN
MX	MIX AMP
LA	LINE AMP
Q	CUE AMP
T	TRANSFORMER, PLUG-IN
1W	PHONE AMP
15W	MONITOR AMP

S	SWITCH
P	POT
M	MIXER
T	TRANSFORMER, MOUNTED
K	RELAY

VU1
VU2
VU3

PROGRAM OUTPUT

JUMPER PLUG

MONO OUTPUT

PHONES

AUDITION OUTPUT

TO CUE OUTPUT

NOT FURNISHED

W.L.
L
R

STEREO PHONES

7A
7B
8A
8B

EXT MON
AIR MON

AUTOGRAM

IC–10 Mono/Stereo Audio Console

MOUNTING & DIMENSIONS:
Table top with bottom or back cable entry
Height: 10 in.; 25.4 cm.
Depth: 20 in.; 50.8 cm.
Width: 44 in.; 118 cm.

AUTOGRAM
CORPORATION
PO Box 456, 1500 Capital Avenue
Plano, Texas 75074
214-424-8585

SPECIFICATIONS

INPUT CHARACTERISTICS:

Sources:
28 stereo inputs — customer's option as to use by plug-in modules
1 high level cassette

Impedances:
Microphone, 200 or 50 ohms
High level 10k ohm bridge or 600 ohm terminate
External monitor, 10k ohm

Levels:
Microphone, -65 to -50 dBm
High level -10 dBm to +10 dBM
External monitor, -10 dBm to +10 dBm

Noise:
Program/audition, -120 dBm
Monitor, -110 dBm

Power Source:
117 or 230 volts ac, 50-60 Hz, single phase

OUTPUT CHARACTERISTICS:

Outputs (Depends on modules used)
1 Stereo program
1 Stereo audition
1 Monophonic program
2 Monitor amplifiers
2 Headphone amplifiers
1 Cue amplifier

Impedances:
Program/audition, 600 ohm balanced or unbalanced
Monitor, 4-16 ohm unbalanced
Cue, 4-16 ohm unbalanced

Levels:
Program/audition or mono, +8 dBm nominal; +24 dBm maximum
Monitor, 15 watts RMS into 8 ohm load
Cue and headset, 1 watt into 8 ohm load

Frequency Response:
Program/audition, ±1 dB 30 to 15 kHz
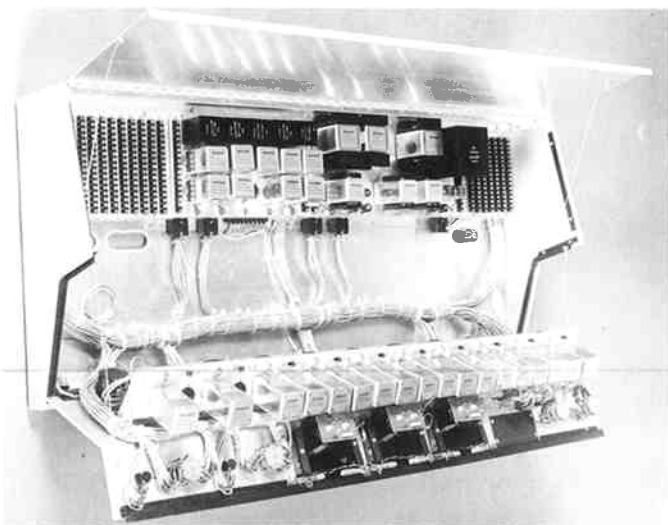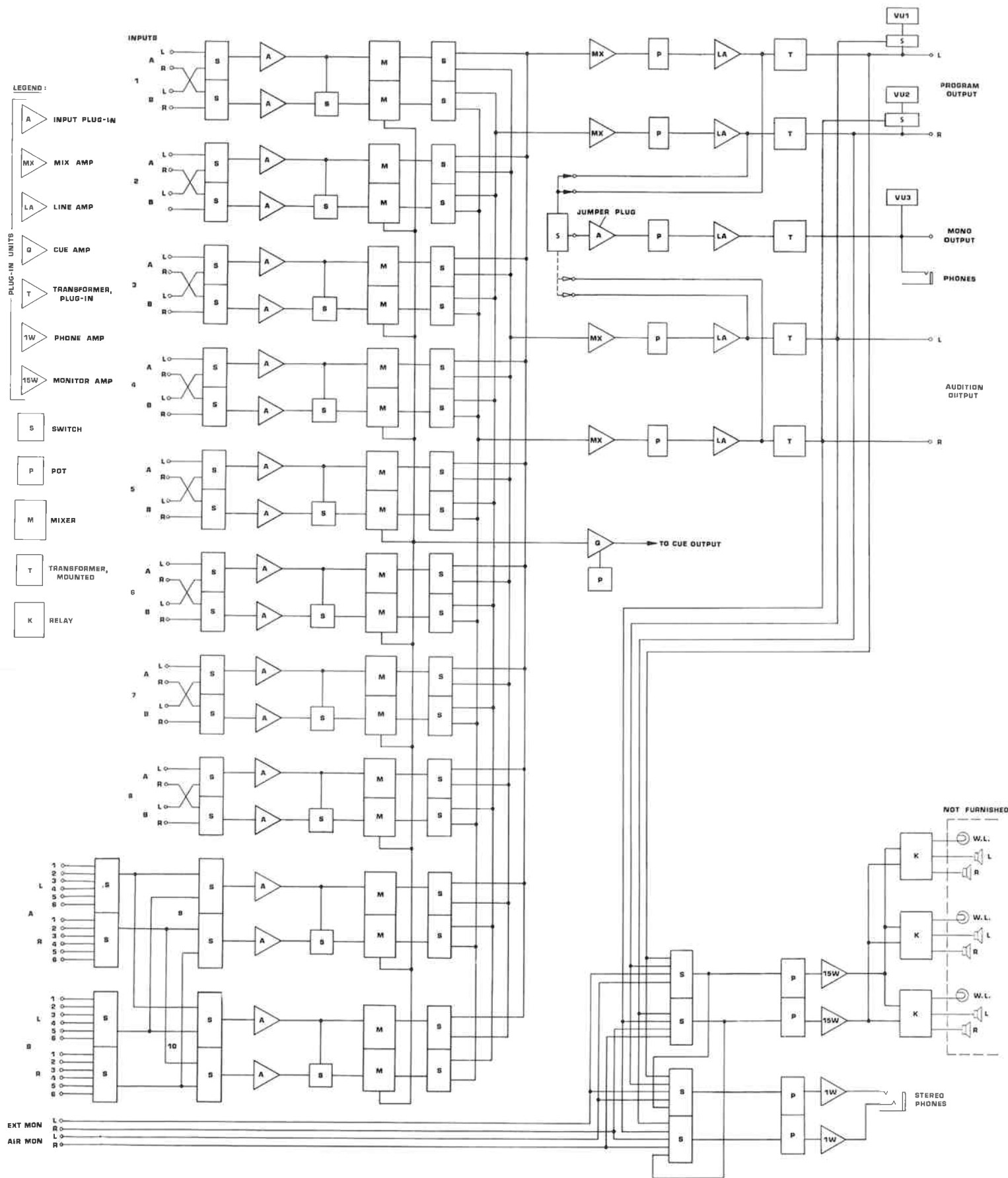Monitor, ±1.5 dB 30 to 15 kHz

Distortion:
Program/audition, less than 0.5% THB
Monitors, less than 1.5% THD

BLOCK DIAGRAM
IC-10 AUDIO CONSOLE

LC-10 Mono/Stereo Audio Console

AUTOGRAM CORPORATION
PO Box 456, 1500 Capital Avenue
Plano, Texas 75074
214-424-8585

SPECIFICATIONS

Input Characteristics:

Sources:
28 stereo inputs — customer's option as to use by plug-in modules
1 high level cassette

Impedances:
Microphone, 200 or 50 ohms
High level 10k ohm bridge or 600 ohm terminate
External monitor, 10k ohm

Levels:
Microphone, -65 to -50 dBm
High level -10 dBm to +10 dBM
External monitor, -10 dBm to +10 dBm

Noise:
Program/audition, -120 dBm
Monitor, -110 dBm

Power Source:
117 or 230 volts ac, 50-60 Hz, single phase

OUTPUT CHARACTERISTICS:

Outputs (Depends on modules used)
1 Stereo program
1 Stereo audition
1 Monophonic program
2 Monitor amplifiers
2 Headphone amplifiers
1 Cue amplifier

Impedances:
Program/audition, 600 ohm balanced or unbalanced
Monitor, 4-16 ohm unbalanced
Cue, 4-16 ohm unbalanced

Levels:
Program/audition or mono, +8 dBm nominal; +24 dBm maximum
Monitor, 15 watts RMS into 8 ohm load
Cue and headset, 1 watt into 8 ohm load

Frequency Response:
Program/audition, ±1 dB 30 to 15 kHz
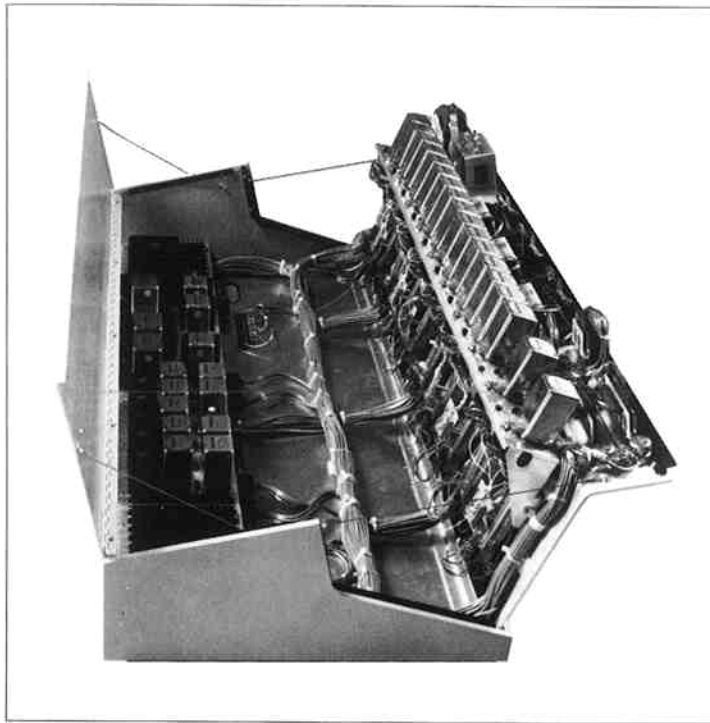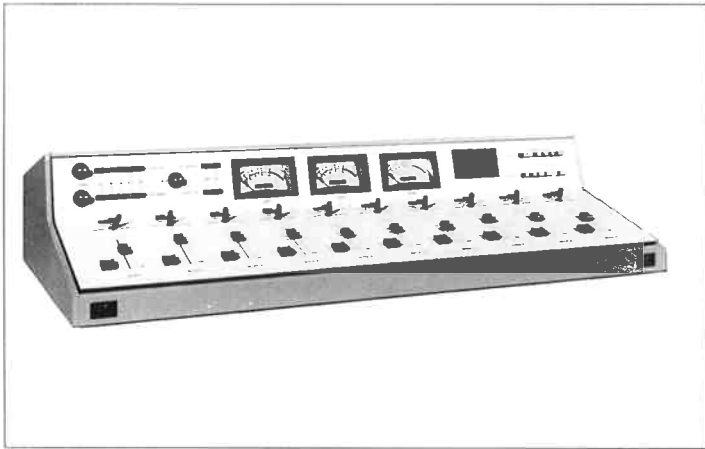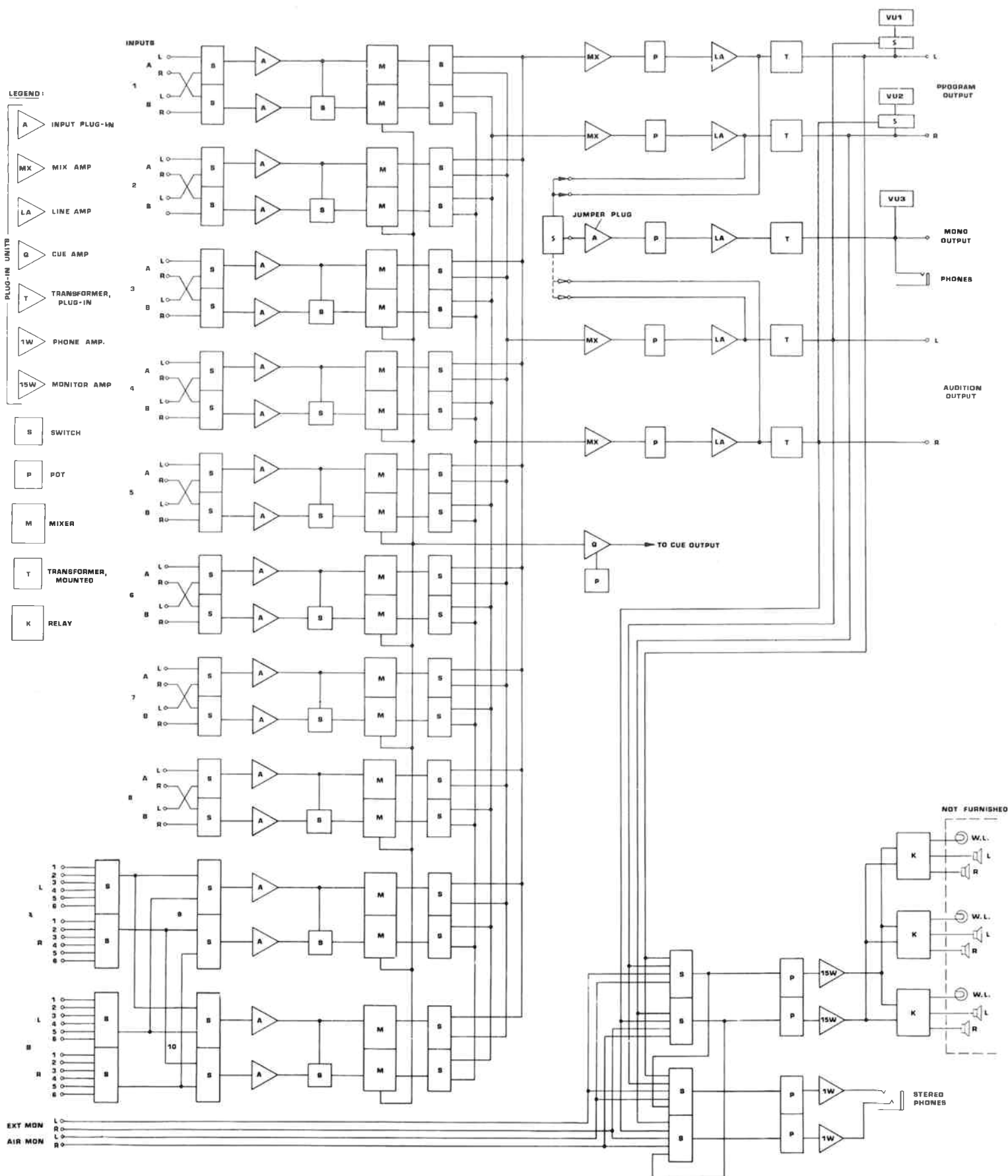Monitor, ±1.5 dB 30 to 15 kHz

Distortion:
Program/audition, less than 0.5% THB
Monitors, less than 1.5% THD

MOUNTING & DIMENSIONS:
Table top with bottom or back cable entry
Height: 10 inches (25.4 cm)
Depth: 21.75 inches (55.25 cm)
Width: 44 inches (118 cm)

BLOCK DIAGRAM
LC-10 AUDIO CONSOLE

AUTOCLOCK

BY AUTOGRAM

Panel mount version

Stand alone version

FEATURES

TIME (HH MM SS):
PM indicator, battery backed, **Top of the Hour Sync** for maxium accuracy (**WWV or Network**)

DATE (MM DD YY DOW):
Automatic Leap Year Compensation, battery backed

STOPWATCH (MM SS):
0:00 to 99:59, functions include: **Restart/Stop, Start/Continue, Reset**

COUNT-DOWN (SS):
Adjustable from 1 to 32 seconds for fixed count-down timings

TEMPERATURE (F/C):
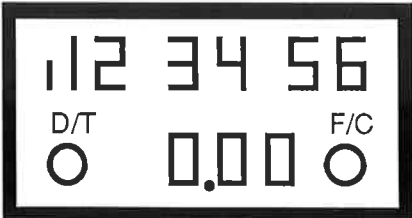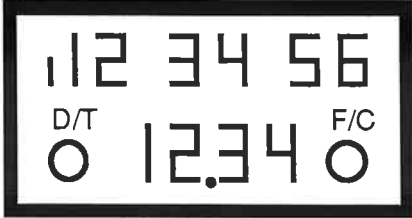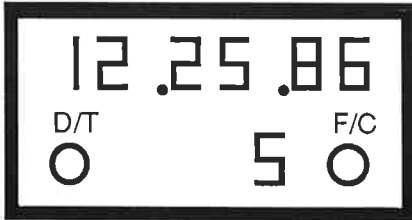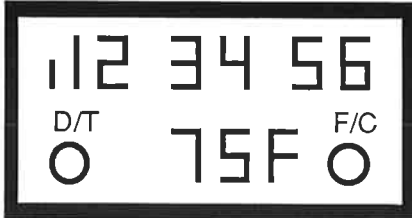External probe, **High Of Day** and **Low Of Day** plus **Time** occurred
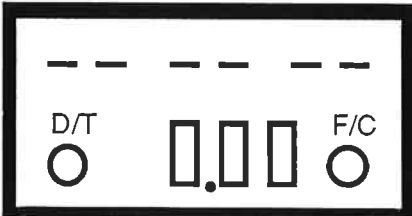
AUTOCLOCK:
Syncs any number of **AUTOCLOCK** units for same **Time/Date/Temperature** displays (**Stopwatch** and **Count-Down** controlled locally)

AUTOCLOCK MODES

ACTION	DISPLAY	RESULT

Normal Display

`ı l2 34 56` `D/T O 0.00 F/C O`

Displays **Time** in **HH MM SS** format on the top line (With **PM** indicator)

Audio Source started

`ı l2 34 56` `D/T O l2.34 F/C O`

Displays **Stopwatch** in **MM.SS** format on the bottom line (**Stopwatch** to 99.59)

Press D/T Pushbutton

`l2 .25 .86` `D/T O 5 F/C O`

Displays **Date** in **MM DD** format on top line, with day of week on the bottom line (Includes Leap Year)

Push F/C pushbutton

`ı l2 34 56` `D/T O 75F F/C O`

Displays **Temperature** in degrees F or C on the bottom line (-40F to 189F or -40C to 87C)

Push F/C pushbutton
Push D/T pushbutton
(Push D/T again to display Low temperature)

`ı 3 29 H ı` `D/T O 83F F/C O`

Displays **High** and **Low Temperature** of the day on the bottom line and the **Time** it occurred on the top line

External count-down signal detected (Ex. Tertiary signal to provide end of spot countdown)

`ı l2 34 56` `D/T O .05 F/C O`

Displays the **Count-down** timer on the abottom line (Adjustable from 1 to 32 seconds)

Battery failure

`-- -- --` `D/T O 0.00 F/C O`

Displays dashes on the top line to indicate a battery replacement is required (1 AAA cell)

AUTOCOUNT

BY AUTOGRAM

Model 200C (Panel Mount)

Model 200D (Stand Alone Cabinet)

FEATURES

COUNT-UP TIMER:
00:00 to 59:59:99
Reads: Minutes to 59
Seconds to 59
Seconds to .99

STOPWATCH:
00:00 to 59:59:99
Start / Hold / Reset

LAP TIMER:
00:00 to 59:59:99
Start / Hold / Restart / Reset

ACCUM TIMER:
00:00 to 59:59:99
Interfaces to cart machine for cart timing

DIMENSIONS
Panel Mount (Model 200C):
3.75" (9.52 cm) W x 2.05" (5.21 cm) H
x 4.5" (11.43 cm) D
Stand Alone Cabinet (Model 200D):
4.0" (10.16 cm) W x 3.2" (8.13 cm) H
x 5.4" (13.72 cm) D

All specifications are subject to change without notice. 6355 / 387

Autogram Mono/Stereo Audio Consoles
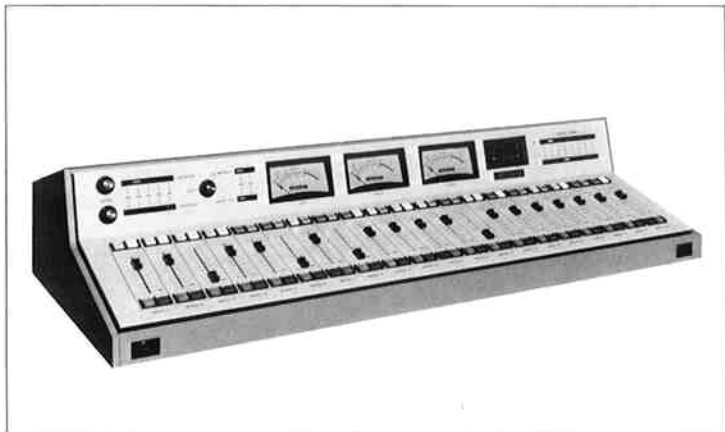
R/TV-20

Available with 12 slide pots
Sources:
  20 slide pots
  34 stereo inputs
Outputs:
  1 stereo program
  1 stereo audition
  2 mix minus
  1 monophonic program
  2 line monitors
  2 headphones
  1 cue
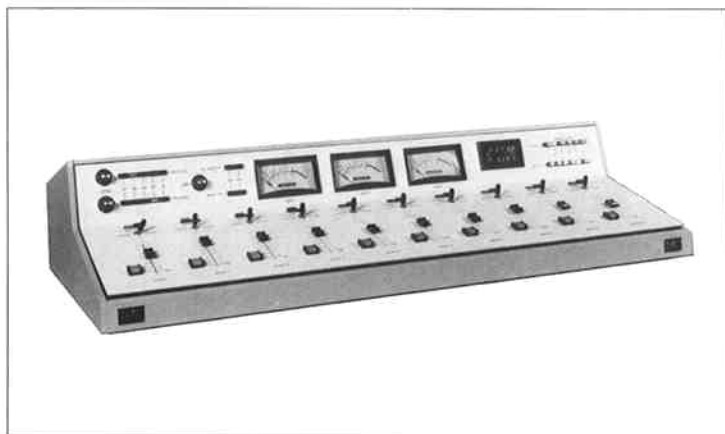
LC-10

Sources:
  28 stereo inputs with customer's option
  as to use by plug-in modules
  1 high level cassette
Outputs (depends on modules used):
  1 stereo program
  1 stereo audition
  1 monophonic program
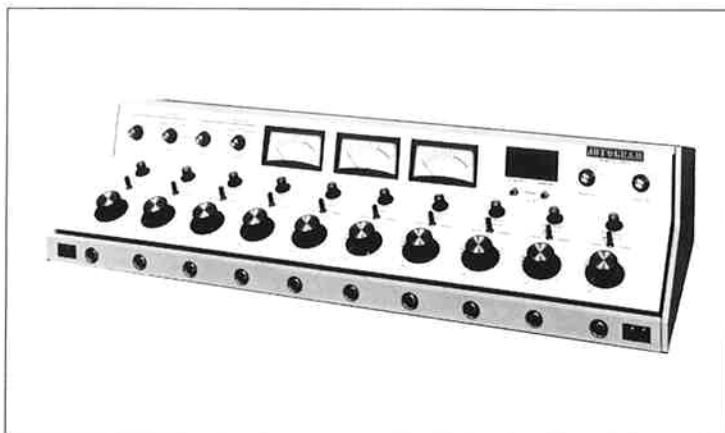
IC-10

Available in 6 and 8 pot configuration
Sources:
  28 stereo inputs with customer's option
  as to use by plug-in modules
  1 high level cassette
Outputs (depends on modules used):
  1 stereo program
  1 stereo audition
  1 monophonic program

All specifications are subject to change without notice. 6371 / 387

AUTOGRAM CONSOLE FEATURES

ALL AUTOGRAM CONSOLES - except Mini Mix 8

- All Aluminum Construction
- Aluminum Extrusion for Strength
- Internal Power Supplies
- Engraved Front Panels
- Layout of Panel for Easy Operation
- Optional Autoclock or Autocount

AC/IC SERIES (medium priced)

- Shallco Rotary Step Attenuators
- Oak Rotary Selector Switches
- Capitol Key Switches
- True API VU Meters
- 15 Watt Monitor Amp-module Internal
- In/Out/Controls on Terminal Strips
- All Amps/Transformers Mounted in Plug-In Cans with Updated Modules

        AC-6   -   6 Pot - 23 Stereo Inputs
        AC-8   -   8 Pot - 26 Stereo Inputs
        IC-10 - 10 Pot - 28 Stereo Inputs

PACEMAKER SERIES (low to medium priced)

- Penny & Giles Long Throw Slide Pots (color knobs available)
- Schadow Selector Switches
- Screw-type Pluggable Connectors
- Machine Control on all Inputs
- Legend Strips on each Input
- Mix-minus Selectable - Front Panel
- Two Watt (8 ohm) Headphone with Selectable Inputs
- Two Watt (8 ohm) Cue Amp
- Electronic Switching & VCA Level Control
- All Inputs Including Remote & External have Trimable Inputs
- Up to 8 Patchable Mike Preamps

        PACEMAKER 618   -   6 Pot - 18 Stereo Inputs
        PACEMAKER 648   -   6 Pot - 48 Stereo Inputs (excellent for news)
        PACEMAKER 828   -   8 Pot - 28 Stereo Inputs
        PACEMAKER 1032   -   10 Pot - 32 Stereo Inputs
        PACEMAKER 1644   -   16 Pot - 44 Stereo Inputs

32492

R/TV SERIES (top of our line)

- R/TV-12 - 8 dedicated pots
- R/TV-20 - 18 dedicated pots
- Penny & Giles long throw slide pots (color knobs available)
- Schadow selector switches
- True API VU Meters
- Screw type pluggable connectors
- Optional Live Assist interface card & control box
- Up to 8 patchable mike amps
- Electronic Switching & VCA level control
- Two mix-minus buses
- All inputs including remote and external have adjustable inputs
- Two watt (8 ohm) cue amps
- Two watt (8 ohm) headphone with selectable inputs

```
R/TV-12  -  12 Pots  -  28 Stereo Inputs
R/TV-20  -  20 Pots  -  34 Stereo Inputs
```

MINI-MIX 8 (low priced)

- All aluminum case with oak wood endbells two full stereo output buses + mono output
- 8 slide plug-in pots--first two dedicated mike slide pots
- 12 stereo inputs
  6 are unbalanced stereo for consumer CD decks, cassette machines, audio decks, etc.
  6 high level balanced--professional stereo inputs
- All VCA operated
- Cue amplifier/speaker built-in
- Light weight, approximate size 19" x 14" x 4"
- USA made - Plano, Texas (high quality components)

AUTOCLOCK

- Real time, count-up timer, temperature (high and low for the day plus time it happened).

```
Autoclock - 100C - Autogram Console Mount
Autoclock - 100D - Autogram Desk Type
```

AUTOCOUNT

- Count-up Timer

```
Autocount - 200C - Autogram Console Mount
Autocount - 200D - Autogram Desk Type
```

RELAY PANEL

- Sixteen relays in panel where isolation control is necessary

```
RP-16  -  Relay Panel
```

32492

AUTOGRAM CORPORATION

AC-6A.....6 Rotary Pots - No Audio Transformers
                  Electronically balanced in and out
                  Typical Stereo: 2 Stereo Program out; 1 mike preamp $ 5,604
                 *Typical Mono: 2 Mono program out; 1 mike preamp $ 4,809

AC-6B.....6 Rotary Pots - Audio Transformers, in and out
                  Typical Stereo: 2 Stereo program out; 1 mike preamp $ 5,821
                 *Typical Mono: 2 Mono program out; 1 mike preamp $ 4,917

AC-8A.....8 Rotary Pots - No Audio Transformers
                  Electronically balanced in and out
                Typical Stereo: 2 Stereo program out; 1 mono program out,
                         2 Mike preamps $ 6,967
               *Typical Mono: 2 Mono program out; 2 mike preamps $ 6,026

AC-8B.....8 Rotary Pots - Audio Transformers in and out
                Typical Stereo: 2 Stereo programs out; 1 mono program out
                         2 Mike preamps $ 7,237
              *Typical Mono: 2 Mono programs out; 2 Mike preamps $ 6,134

IC-10A...10 Rotary Pots - No Audio Transformers
                  Electronically balanced in and out
                Typical Stereo: 2 Stereo programs out; 1 mono program out;
                         2 mike preamps $ 9,166
              *Typical Mono: 2 Mono programs out; 2 mike preamps $ 8,093

IC-10B...10 Rotary Pots - Audio Transformers in and out
                Typical Stereo: 2 Stereo programs out; 1 Mono program out;
                         2 Mike preamps $ 9,436
              *Typical Mono: 2 Mono programs out; 2 mike preamps $ 8,201

LC-10A .....10 Slide Pots - No Audio Transformers
                  Electronically balanced in and out
                Typical Stereo: 2 Stereo programs out; 1 Mono program out;
                         2 mike preamps $ 9,592
              *Typical Mono: 2 Mono programs out; 2 mike preamps $ 8,518

LC-10B .....10 Slide Pots - Audio Transformers, in and out
                Typical Stereo: 2 Stereo programs out; 1 Mono program out
                         2 mike preamps $ 9,862
              *Typical Mono: 2 Mono program out; 2 mike preamps $ 8,944

*All consoles are wired as stereo. Mono consoles may be upgraded to stereo by adding appropriate plug-in modules. Front panels are engraved.

R/TV-12 ....12 Slide Pots: Typical Stereo/Mono--2 stereo programs; 1 Mono
                program; 2 mix minus; 1 cue, 2 headphones, 2 line monitors out;
                8 single inputs; 4 multiline inputs (4 inputs each); 1 mike
                preamp card (4 mike preamps); balanced line outputs; Penny and
                Giles slide attenuators; VCA controlled. $11,098

R/TV-20 ....20 Slide Pots; Typical Stereo/Mono--2 stereo programs; 1 Mono
                program; 2 mix minus; 1 cue; 2 headphones; 2 line monitors out
                18 single inputs; 2 multiline inputs (8 inputs each); 1 mike
                preamp card (4 mike preamps); balanced line outputs; Penny and
                Giles slide attenuators, VCA controlled. $13,385

R/TV LIVE ASSIST PACKAGE...Complete random sequencing of all console channels
                PLUS remote control. $ 1,423
Live Assist Panel Only...To add another Live Assist operating position to above. $ 638
All spare R/TV circuit cards $ 230

PACEMAKER 618.....6 Slide Pots--Typical: 2 Stereo programs; 1 mono program;
          1 mix-minus; 1 cue; 2 headphones; 2 line monitors out; one
          multiline input (8 inputs-each with machine start controls)
          five dual line inputs (2 inputs each); 1 mike card (4 mike
          preamps); self contained power supply; balanced line out_
          puts; Penny & Giles slide attenuators; VCA level control. $ 5,196

PACEMAKER 648.....6 Slide Pots--Typical: 2 stereo programs; 1 mono program;
          1 mix-minus; 1 cue; 2 headphones; 2 line monitors out; six
          multiline inputs (8 inputs each--48 stereo inputs, each
          with machine start control; 1 mike card (4 mike preamps);
          self contained power supply; balanced line outputs; Penny
          and Giles slide attenuators; VCA level control. $ 6,757

PACEMAKER 828.....8 Slide Pots--Typical: 2 Stereo programs; 1 mono program;
          1 mix-minus; 1 cue; 2 headphones; 2 line monitors out; six
          dual line inputs (2 inputs each); 2 multiline inputs (eight
          inputs each with machine start controls); 1 mike card (four
          mike preamps); self contained power supply; balanced line
          outputs; Penny & Giles slide attenuators: VCA level control. $ 6,237

PACEMAKER 1032....10 Slide Pots--Typical: 2 stereo programs; 1 mono program
          1 mix-minus; 1 cue; 2 headphones, 2 line monitors out; 8 dual
          line inputs (2 inputs each); 2 multiline inputs (8 inputs
          each with machine control); 1 mike card (4 mike preamps);
          self contained power supply; balanced line outputs; Penny &
          Giles slide attenuators: VCA level control. $ 7,490

PACEMAKER 1644....16 Slide Pots--Typical: 2 Stereo programs; 1 mono program;
          1 mix-minus; 1 cue; 2 headphones; 2 line monitors out; 14
          dual line inputs (2 inputs each); 2 multiline inputs (8 inputs
          each with machine control); 1 mike card (4 mike preamps);
          self contined power supply; balanced line outputs; Penny and
          Giles slide attenuators; VCA level control. $ 9,170

MINI-MIX 8........All aluminum case with oak wood endbells; two full stereo
          output buses plus mono output; 8 slide plug-in pots--first
          two dedicated mike slide pots; 12 stereo inputs; 6 are unbal-
          anced stereo for consumer CD decks, cassette machines, audio
          decks, etc.; 6 high level balanced--professional stereo in-
          puts; all VCA operated; cue amplifier/speaker built-in; light
          weight, approximate size 19" X 15" X 5". $ 2,499

AUTOCLOCK.........Time, stop watch, date & temperature (high & low of the day
          plus time each occurred). Model 100C, console mounted; Model
          100D stand alone. $ 375

AUTOCOUNT.........Count-up and stop watch. Model 200C, console-mounted; Model
          200D stand alone. $ 193

RP/16 RELAY PANEL...Self-contained 24V power - 16 relays to interface "open
          collector outputs" to outside world. $ 403
T-8 TEST OSCILLATOR..Multi-tone oscillator unit. $ 508

9192

R/TV-12 and R/TV-20 ORDER INFORMATION

_____ R/TV-12 Typical:
2 stereo programs, 1 mono program, 2 mix-minus, 1 cue amp
(cue speaker external, not furnished) 2 headphone amps.
2 line monitor (external power amps required, not furnished),
internal power supply, 4 mike preamps on card, 12 slide P &
G Pots, 24 stereo inputs $11,098 _____

_____ R/TV-20 Typical:
2 stereo programs, 1 mono program, 2 mix-minus, 1 cue amp
(cue speaker external, not furnished), 2 headphone amps.
2 line monitor (external power amps required, not furnished),
internal power supply, 4 mike preamps on card, 20 slide P & G
pots, 34 stereo inputs $13,385 _____

ALL SPARE BOARDS:
_____ mike preamp (4 per board) _____ program output*   _____ mono/silence sense
_____ channel   _____ audition output* _____ phone cue output
_____ multiline   _____ mix minus output* _____
_____ monitor/phones select   _____ monitor output   each $230 _____
*Identical Audio Output

SPECIFY COLOR SLIDER KNOBS:

R/TV-12	Color	R/TV-20	
_____	Red	_____	
_____	Blue	_____	
_____	White	_____	
_____	Black	_____	Black knobs are supplied
_____	Yellow	_____	if no color specified.
_____	Orange	_____	
_____	Gray	_____	No extra charge for color
_____	Green	_____	knobs.
12	TOTAL	20	

_____ Extra color slider knob $3.25 _____

_____ Custom button engraving - up to two lines/5 characters per line $5.00 _____

_____ Spare P & G slider pot assembly $77.00 _____

_____ Spare push button switch assembly $13.50 _____

ACCESSORIES:

_____ Autoclock 100C $375.00 _____

_____ Autocount 200C $193.00 _____

_____ Live Assist Package $1,423.00 _____

_____ RP 16 Relay Panel - isolated circuits to outside world $403.00 _____

                                          TOTAL LIST PRICE $ _____

32492

AUTOGRAM
CORPORATION

R/TV AUDIO QUALITY FOR THE IC-10, LC-10, AC-8, and AC-6 AUTOGRAM AUDIO CONSOLES.

Now available is a package of modules for the standard Autogram Consoles. When used together, the performance specifications of the console are significantly improved. Typically, the signal to noise ratio is 82dB relative to +8 dBm output while the harmonic and intermodulation distortion is better than .10%. The Console is further improved sonically by the elimination of all Audio Transformers. NE-5532 and TLO-72 type IC's are used throughout the design.

PROGRAM REPLACEMENT MODULE KITS FOR AC/IC SERIES CONSOLES

IA-1   INPUT AMPLIFIER replaces existing MT-1 matching transformer module, $65
BT-1 Bridging Transformer Module, and BA-1 Bridging Amplifier Module.
20K ohm electronically balanced input with 600 ohm terminate switch-
range input select switch: -10, 0, +10 levels--trim pot for exact
calibration. No need for external audio pads.

MXA-2   MIX AMPLIFIER replaces existing MXA-1. Intergrated circuit design. $65

LA-3   LINE AMPLIFIER replaces existing LA-1--electronically balanced for $65
transformer-less output. Unbalanced output for use with output trans-
formers.

MPA-2A   MICROPHONE PRE-AMP replaces existing MPA-1. Transformer-less design. $99

All modules are directly replaceable, except LA-3 which requires sim-
ple circuit modification in output chassis to bypass existing output
transformers.

PRICING

	IA-1	MXA-2	LA-3	MPA-2	LIST
AC-6M	5($65) $325	4($65) $260	4($65) $260	1($99) $99	$944
AC-6S	10($65) $650	4($65) $260	4($65) $260	1($99) $99	$1,269
AC-8M	6($65) $390	4($65) $260	5($65) $325	2($99) $198	$1,173
AC-8S	12($65) $780	4($65) $260	5($65) $325	2($99) $198	$1,563
LC/IC-10M	8($65) $520	4($65) $260	5($65) $325	2($99) $198	$1,303
LC/IC-10S	16($65) $1,040	4($65) $260	5($65) $325	2($99) $198	$1,823

32492

AUTOGRAM CORPORATION

T H E

A U T O G R A M   R P - 1 6   R E L A Y   P A N E L

The RP-16 RELAY PANEL is now available as an independent product. The 16 relay unit can be used with the R/TV series consoles to provide isolated contacts for devices which cannot be operated by an open-collector to ground type driver.

The RP-16 RELAY PANEL is designed to be used for any applications needing a relay interface. The unit consists of a regulated 24 volt D.C. power supply and 16 4PDT plug in relays connected to standard barrier type terminal strips. The RP-16 is housed in a 3-1/2 inch rack mountable chassis. The 24 volt supply voltage is available on the terminal strip for external use (500 ma maximum) for lamps and other circuits. All relays are operated against ground making them compatible with "open collector type solid state drivers". Two sets of contacts are available on each relay:

      A. One "C" type contact with a common armature
         and a normally closed (N.C.) and normally
         open (N.O.) contact.

      B. One "A" type contact normally open (N.O.)

Each contact type is "doubled" using 2 sets of actual relay contacts. This gives each circuit a general use rating of 3 A with 110 VAC, 1.6 A with 220 VAC and 3 A with 30 VDC. The resistive rating of each output is 6 amps.

The relay panel power supply is a standard full wave bridge type using an integrated circuit voltage regulator (type 7824).

The power supply is designed for 120 VAC or 240 VAC 50/60 Hz. operation and is fused with a 1 amp/120v or .5 amp/240v AC line fuse.

The AUTOGRAM RP-16 RELAY PANEL is priced at $403.00.

Available from AUTOGRAM CORPORATION

*FAX 214 423 6334 * 1500 CAPITAL AVENUE * PLANO,TEXAS 75074 * (214) 424-8585

32492

AUT●GRAM

ERNEST T. ANKELE, JR.
President

JIMMY D. LAIRD
Chief Engineer

NEVA WHITE
Production Supervisor

DELORES J. ANKELE
Secretary/Treasurer

Autogram Corporation • 1500 Capital Avenue • PO Box 456 • Plano, Texas 75074

214-424-8585