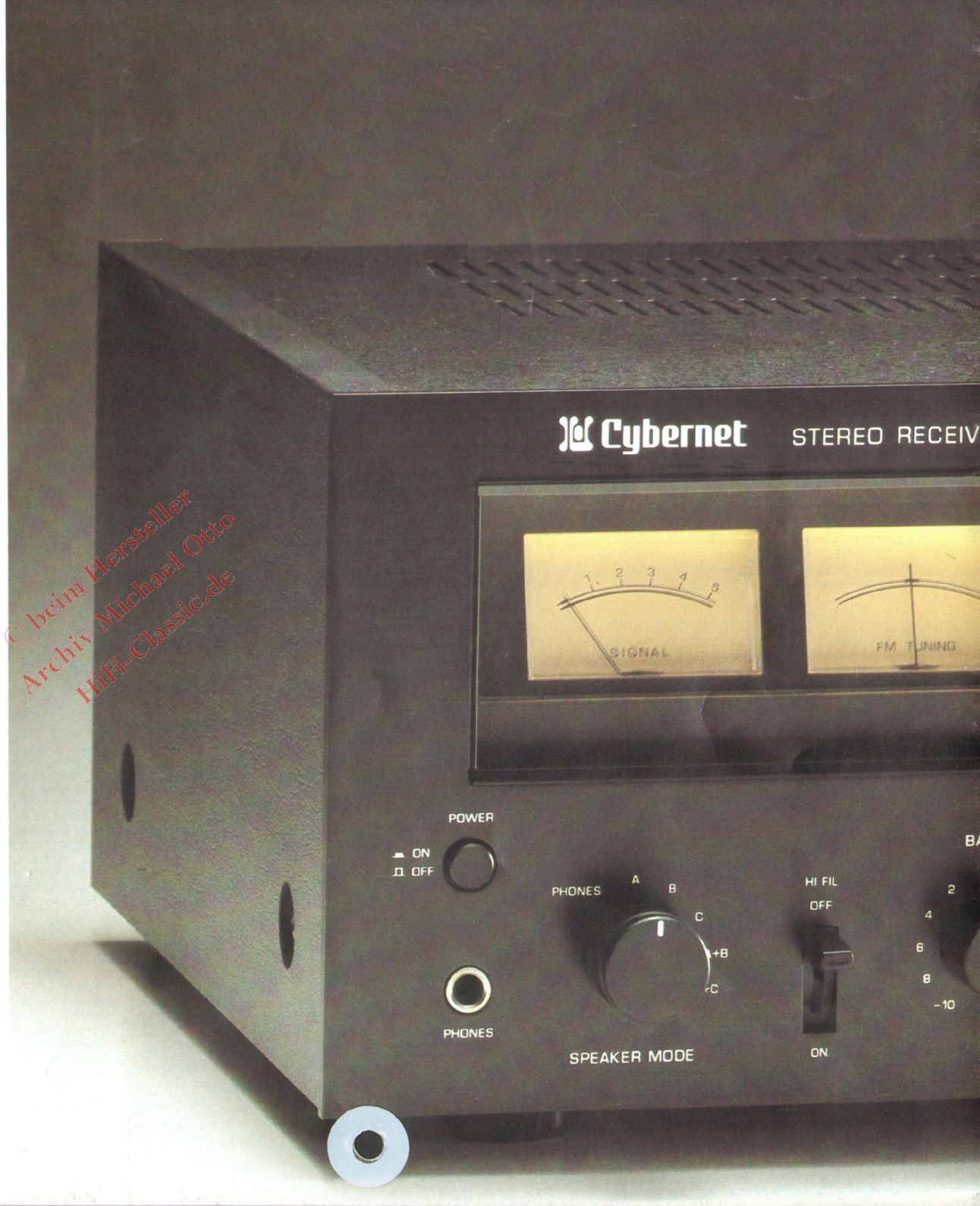


Cybernet

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Cybernet STEREO RECEIVER CR-110

R CR-110

FM 88 90 92 94 96 98 100 102 104 106 108 MHz
AM 53 60 70 80 90 100 120 140 160 x10KHz

STEREO

FM MUTE AUDIO
ON OFF ON OFF ON

VOLUME BALANCE

MID TREBLE

TONE STEREO LOUD

FLAT MONO OFF

MONITOR SOURCE SOURCE

TAPE 1 TAPE 2

PHONO 1 PHONO 2

SELECTOR

PUSH - STEREO
PULL - MONO

MIC LEVEL

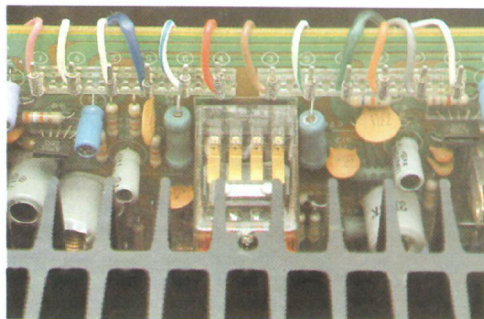
Cybernet STEREO RECEIVER CR-110

Every good product is built for a special reason. The Cybernet CR-110 stereo receiver is no exception. No doubt about that it was built to handle a sophisticated stereo system like professionals. It is a luxury receiver created without compromise.



FM SECTION: The FM section has a usable sensitivity of 10.3 dBf obtained through a high grade 4-gang tuning capacitor in the front-end and three pairs of linear phase ceramic filters ensure good band pass response. A low pass filter is employed to prevent carrier leakage, and a specially selected phase-lock loop IC ensures stability, low distortion and excellent S/N ratio. A constant voltage supply is used for further stability. The unpleasant "hiss", known as interstation noise, is completely suppressed. With the FM muting switch in "ON" position, you only hear stations where they are and nothing in between.

AM SECTION: For high grade AM reception an integrated circuit is used. The CR-110 also provides high selectivity with superior S/N ratio, a linearity and dynamic range that assure low distortion.



TUNING: A reflected-light dial scale is adapted for the front panel to enhance the unit's distinguished design and a heavy flywheel in its tuning mechanism provides easy and smooth operation. Two large luminous meters, a signal and a tuning meter show the signal strength on reception and the tuning meter indicates the best performing point at its center-position.

AMPLIFIER SECTION: All inputs such as 2 phonos, Auxiliary, AM and FM are available via the front panel selector switch. The input stage employs a 2-stage directly coupled amplifier utilizing high quality transistors to ensure good linearity and high overload margin. Direct coupled DC output configuration in the power section of the amplifier ensures excellent bass, minimum distortion and outstanding transient response.

— The negative feedback type circuit is employed in the tone control circuit to obtain low distortion and high S/N ratio, it can have sufficient negative feedback when boosted to provide very low distortion ratio.

— The high filter provides a cut-off of 12 dB by 15 KHz to eliminate tape hiss, record noise or electrical generated noise.

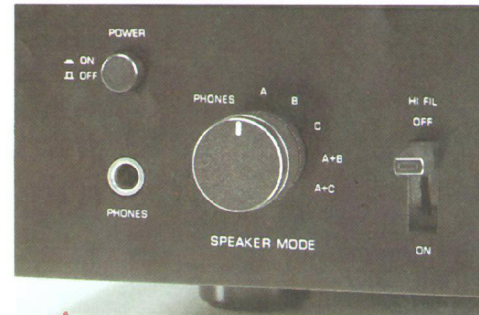
— The fully complementary symmetric output gives the least possible distortion. A large power transformer and a pair of large capacitors maintain power easier than any comparable design in its class.

— Protection circuitry against excessive current protects the output circuit should the output terminals be shorted by accident. This circuit is equipped with a power relay. A DC voltage-detection separates the output to prevent speaker damage should excessive DC voltage occur at the terminals.

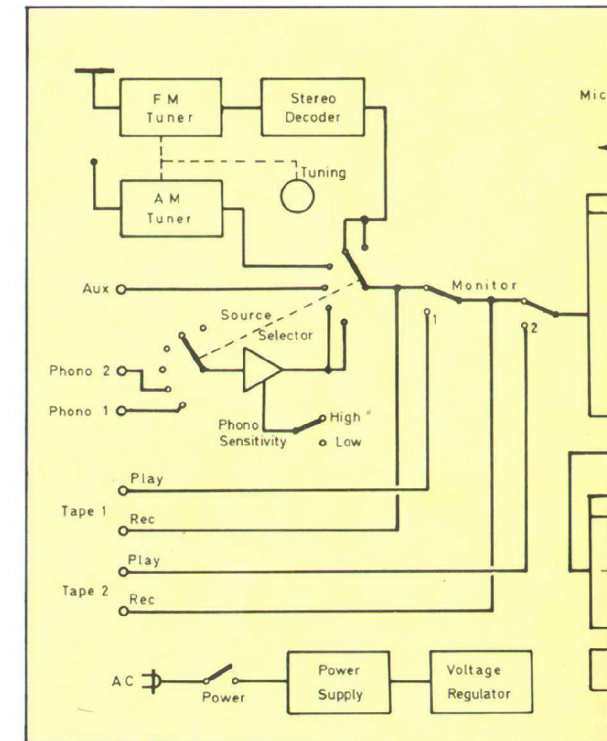
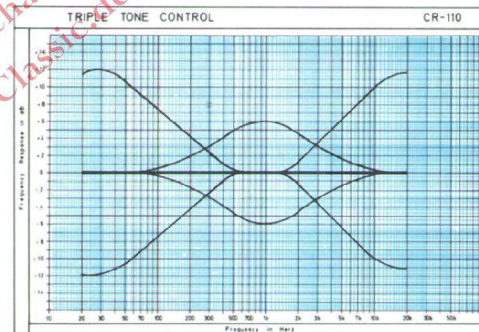
— An extra large heat sink diffuses any heat radiated by the power IC, so they can continue to work at full capacity during long time.

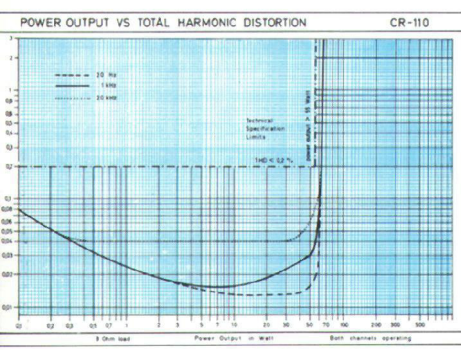
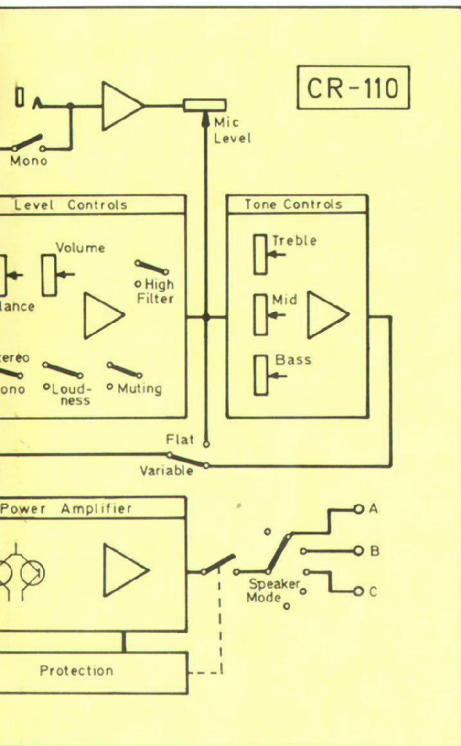
MICROPHONE MIXING: With a "one point" stereo microphone or a normal mono microphone you can enjoy public address facility. Both from left and right, stereo or mono sound is reproduced. It has mixing facilities for microphone and program source such as tape decks, recordplayer, broadcast etc. With this facility you can add narrations or music to tapes being played back.

PHONO SENSITIVITY: Because there are various types of cartridges the phono sensitivity can be adjusted by a switch on the rear panel 2.5 mV or 5 mV.



SPEAKER CONNECTIONS: A, B and C speaker terminals are provided and can be operated individually or in combination. For private listening a headphones jack on the front panel is provided.





TECHNICAL SPECIFICATIONS

FM TUNER

Tuning range 88 - 108 MHz

Usable sensitivity (at 98 MHz)

Mono 10.3 dBf

Stereo 18.0 dBf

Sensitivity (at 98 MHz) IHF '58 1.8 uV

Sensitivity (at 98 MHz) IHF '76 for 50 dB quieting

Mono 16.0 dBf

Stereo 38.0 dBf

Sensitivity DIN

Mono (26 dB S/N) 1.55 uV

Stereo (46 dB S/N) 40 uV

Selectivity (98 MHz) alternate channel 70 dB

Capture ratio* 1.25 dB

FM distortion*

Mono 100 Hz 0.15%

1 kHz 0.15%

6 kHz 0.4%

Stereo 100 Hz 0.4%

1 kHz 0.4%

6 kHz 0.5%

Stereo separation*

100 Hz 32 dB

1 kHz 40 dB

10 kHz 32 dB

Stereo decoder PLL

Frequency response* 30 Hz to 15 kHz + 0.5 dB - 2.0 dB

Signal-to-noise ratio*

Mono 72 dB

Stereo 67 dB

FM muting Threshold (at 98 MHz) 14 dBf

spurious response rejection (at 98 MHz) 90 dB

IF rejection (at 98 MHz) 90 dB

Image rejection (at 98 MHz) 80 dB

Subcarrier product ratio rejection* 60 dB

Antenna connections 75 Ohm coax 300 Ohm twin

Tuning indicators

signal strength metre

centre tuning metre

AM TUNER

Tuning range 535 - 1605 kHz

Sensitivity (IHF)** 25 uV

Image rejection (600 kHz) 45 dB

Signal-to-noise ratio** 45 dB

Antenna Connection for external antenna Yes

Indicator for signal strength metre

POWER OUTPUT

RMS at 8 Ohm load both channels operating from 20 to 20,000 Hz (FTC) for THD less than 0.2%

RMS at 4 Ohm load (DIN) 2 x 78 W

TOTAL HARMONIC DISTORTION (THD) at rated output < 0.2%

INTERMODULATION DISTORTION (IMD) at rated output < 0.2%

50 & 7000 Hz 4:1

FREQUENCY RESPONSE 20-20,000 Hz limits ± 1 dB

Power bandwidth (-3 dB) 5 - 40,000 Hz

Damping factor (1 kHz : 8 Ohm) 35

CONNECTIONS

Connections Phono (magnetic cartridge)

Number 2

Phono 1 and 2 switchable Yes

Tape Connections

Tape 1 Cinch

Tape 2 Cinch & DIN

Tuner (AM-FM) built-in

Auxiliary 1 Cinch

Microphone 1 jack*

INPUT SENSITIVITY

for rated output

Phono 1 (mag.) 2.5 or 5 mV

Phono 2 (mag.) 2.5 or 5 mV

Tape 1 150 mV

Tape 2 150 mV

Auxiliary 1 150 mV

Microphone 6 mV

Power amplifier 1.5 V

INPUT IMPEDANCE (nominal)

Phono 1 and 2 47 kOhm

Tape, auxiliary and tuner 47 kOhm

Microphone 10 kOhm

Power amplifier 47 kOhm

SIGNAL-TO-HUM AND NOISE-RATIO (S/N) IHF

input shorted

IHF A filter

at rated output

Phono 1 65 - 70 dB

sensitivity High Low

Phono 2 65 - 70 dB

other inputs 90 dB

MAXIMUM INPUT SIGNAL

at 1 kHz

preset level controls minimum

Phono 1 150 mV - 300 mV

Phono 2 150 mV - 300 mV

other inputs 10 V

TONE CONTROLS

number 3

tone switch flat-variable

Bass control range ± 10 dB at crossover frequency 62 Hz 250 Hz

Mid-range control range ± 6 dB at 1 kHz

Treble control range ± 10 dB at 10 kHz

Crossover frequency 2.5 kHz

FILTERS

slope 6 dB/octave High

High filter efficiency - 10 dB at frequency 10 kHz

Loudness filter (switchable) volume control at -30 dB at 50 Hz + 12 dB at 10 kHz + 3.5 dB

Audio mute (switchable) -20 dB

MODE SELECTOR

2 positions switch Stereo-Mono 2

Tape input/output number 2

Monitoring inputs (priority) Tape 2 Tape 1

TAPE DUBBING

Tape 1 to tape 2 1-2 auto

Tape record out signal level

Cinch 4.7 kOhm 150 mV

DIN 33 kOhm 30 mV

OUTPUTS

Preamp output 3

SPEAKER OUTPUT PROTECTION

Fuses Relais

Max. power consumption 400 W

DIMENSIONS

Width 50 cm

Height 16.5 cm

Depth 35 cm

Weight 14.5 kg

Handles for 19" rack No