

4008 119 40460

TV Channel combiner

Safety characteristics

This apparatus has been designed in accordance with Safety Class 1 requirement of IEC Publication 348 (Safety Requirements of Electronic Measuring Apparatus), and has been supplied in a safe condition. This manual contains information and warnings which must be followed by the user to ensure safe operation and to retain the apparatus in a safe condition.

Performance characteristics

Properties expressed in numerical values with stated tolerances are guaranteed by the philips organisation in your country. Specified numerical values without tolerances indicate those that could be nominally expected from the mean of a range of identical instruments.

A. Initial characteristics

- 3 U high, 19" rackmount/table cabinet.
- Maximum dimensions
 - Height : 132 mm
 - Width : 441 mm
 - Depth : 430 mm
- Maximum weight
 - Without power supplies : 8.6 kg
 - Additional for each PE 1264/30 : 2.0 kg
 - Additional for each PE 1114/00 : 0.75 kg

B. Environmental conditions

The environmental data mentioned in this instruction manual are based on the results of the manufacturers checking procedures. Details of these procedures and failure criteria are supplied by the PHILIPS organisation in your country, or by N.V. PHILIPS GLOILAMPENFABRIEKEN, INDUSTRIAL & ELECTRO-ACOUSTIC SYSTEMS DIVISION; EINDHOVEN; THE NETHERLANDS.

Climatic conditions

- Ambient temperature
 - Rated range of use : +5 °C to +45 °C
 - Limit range for storage and transport : -30 °C to +70 °C

C. Mechanical requirements

- Vibration
Limit range for storage : 30 min in each of three directions, 10 to 150 Hz; 0.7 mm p-p and 50 m/s² max accel. : According to IEC-Publ. 68, test Fc
Note: Unit mounted on vibration table without shock absorbing material.

- Bump
Limit range for storage and transport : 1000 bumps of 100 m/s², 1/2 sine, 6 ms dur. in each of three directions. : According to IEC-Publ. 68, test Eb

- Packageing : According to UN-D-1400 : The test methods mentioned in the N.V. Philips Standard UN-D-1400 are in acc. with those of the relevant ISO-standards.

D. Power supply

Internal power consumption : 1.2 A / 24 V DC
Maximum output on each output line : 6 A

Maximum 3 power supplies of type (PE 1114/00 or PE 1264/30) can be inserted in the cabinet.

Main data of PE 1114/00:

Mains supply voltage (user selectable) : 220 V AC (175 V - 264 V) or 110 V AC (90 V - 140 V)
Frequency : 47 Hz - 440 Hz
Maximum output current : 2.9 A / 24 V DC at 55 °C

Main data of PE 1264/30:

Mains supply voltage : 220 V AC (198 V - 260 V)
Frequency : 47 Hz - 440 Hz
Maximum output current : 5 A / 24 V DC at 55 °C

For more detailed technical datas see special data sheet for the power supplies.

E. General operating conditions:

Inputs:

- Number of inputs : 16
- Type of connector : BNC
- Impedance : 75 ohm
- VSWR : < 2
- Isolation between inputs : > 15 dB
- Variable input attenuator : 0 - 18 dB

Outputs.

- Number of outputs : 8
- Type of connector : BNC
- Impedance : 75 ohm
- VSWR : < 1.9
- Isolation between outputs : > 15 dB
- Frequency range : 40 - 862 MHz
- Attenuation from input to output (adjustable at each input) : 9 dB - 27 dB
- Flatness : ± 1 dB
- Output level : > 94 dBuV (50 mV)
(DIN 45004-B, -60 dB)
- Typical intermodulation level with 16 channels at 94 dBuV output level : -58 dB

Monitor output.

- Number of outputs : 1 (on the front plate)
- Type of connector : BNC
- Impedance : 75 ohm
- VSWR : < 1.9
- Flatness : ± 1 dB
- Output level : > -20 dB relative to line outputs

Options:

Space is available inside the channel combiner for 3 power supplies type PE 1264 or PE 1114. The power supplies have to be ordered separately, and at least one unit of the above mentioned types is necessary to supply the internal amplifiers.