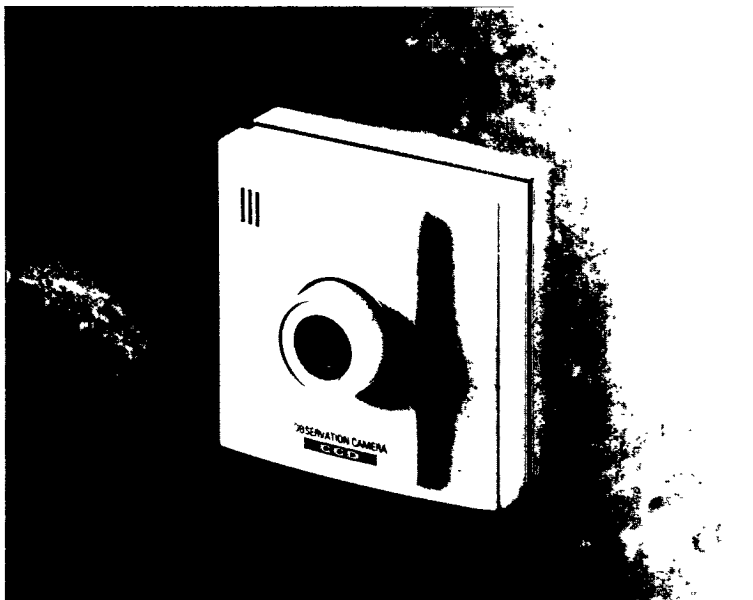




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CCD VIDEO CAMERA VCM 6110/00T



USER MANUAL

WARNING: To prevent fire or shock hazard, do not expose this appliance to rain or moisture.

Do not attempt to disassemble the camera. In order to prevent electric shock and fire hazard, do not remove screws or covers. There are no user-serviceable parts inside.

Bescheinigung des Herstellers / Importeurs

Hiermit wird bescheinigt, daß die Video Kamera Typ VCM6110/00T in Übereinstimmung mit den Bestimmungen der AmtsblVfrg 1046/1984 funk-entstört ist.

Der Deutschen Bundespost wurde das Inverkehrbringen dieses Gerätes angezeigt und die Berechtigung zur Überprüfung der Serie auf Einhaltung der Bestimmungen eingeräumt.

**Philips Novatronics
Eindhoven - Nederland**

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Introduction

This CCD video camera produces fully interlaced monochrome television pictures, according to the CCIR standard.

The high light sensitivity of the camera means that it can even be used very effectively under twilight conditions. The camera is also sensitive to infrared light. It accepts a wide range of different supply voltages, AC as well as DC. If an AC power source is used the camera is automatically line-locked.

Connecting the camera

Power supply

The camera must be powered by using a separate, galvanically isolated, AC or DC power supply unit. The AC input voltage may vary from 12V to 28V (50Hz). The DC input voltage may vary from 10V to 39V. Use a power supply which meets the requirements for SELV service, according to DIN/VDE 0860/05.89 or EN 60742 only. The power supply is connected to the camera via a three pole screw block. The three entry ports for the wiring are on the rear of the unit. Access to the fixing screws is gained via three holes on the underside of the unit.

Connect the power leads to (D) and (E), fig. 1.

For DC supply: (D) is - and (E) is + voltage. An extra safety ground connection is provided, (F) fig. 1, to connect the camera to ground potential. The maximum voltage between the supply inputs (D) and (E) and the safety ground (F) must be less than 50 Volt.

The camera itself is galvanically isolated which makes a system with more than one camera not susceptible to ground loop problems.

Video output

A standard VBS video signal is available at the cinch connector, (G) fig. 1, on the bottom of the camera. The use of a 75 ohm coaxial cable is recommended, for example RG-59/U.

Synchronization

The camera generates a videosignal with synchronization pulses corresponding to the CCIR-standard. The camera can be used alone or as a part of a larger system. Synchronizing more cameras is possible when an AC power source is used.

When several video cameras share the same video recorder equipment, the video recording will be unsynchronized for a period of time after switching from one camera to another. On the monitor this is seen as rolling of the video image.

This effect can be avoided by locking the camera to the local line frequency: **linelock**. For this reason the camera is already locked to the local line frequency when an AC power source is used. The Vphase potentiometer, (C) fig. 1, enables a **phase adjustment** of the linelock over 240 degrees.

The lens

Your camera is equipped with an integrated, 4 mm, f/2.0 lens, (A) fig. 1, with a viewing angle of 74° horizontally and 55° vertically. The depth of field ranges from 1 metre to infinity.

Warning:

Do not touch the surface of the lens. This could damage the delicate coating on the surface of the lens. If the lens has to be cleaned, use special lens cleaning tissue, available at any good camera store.

Installing the camera

It is advisable to install the camera first and connect it to the monitor on the spot. It will allow you to properly aim the camera at the area you want covered while checking the results on the monitor. When satisfied you can place the monitor in its permanent position.

The camera is provided with a mounting hole with 1/4" Whitworth thread, (B) fig. 1, which makes it possible to mount it on any camera tripod.

Maintenance tips

Warning: Do not expose the camera to rain or moisture, or try to operate it in wet areas. Do not operate the camera if it gets wet.

For **outdoor applications** you should use a protective housing to shield the camera from rain and snow.

Cleaning. You may clean the exterior of the camera with a damp and lint-free cloth or chamois. Do not use strong or abrasive detergents. In case the dirt is hard to remove, use mild detergent and wipe gently.

Technical specification of the camera

Image pick-up device	1/3" CCD
Horizontal resolution	380 TV lines
Scanning system	CCIR 625 lines interlaced
Synchronization	Vertically phase-locked (line-lock) to power supply frequency. Phase adjustment range is 240°
Output signal	Standard VBS signal
Integrated lens	4 mm, f/2.0 fixed focus (1 m to infinity)
Viewing angle	74° horizontal, 55° vertical
Illumination range	4 to 25000 lux (50 ire/ -6dB) 1 to 25000 lux (acceptable picture)
Tripod mount	1/4" Whitworth thread
Video connection socket	Cinch (RCA) plug
Input voltage	12 - 28V AC or 10 - 39V DC, using same connection terminals
Power consumption	1.5 VA
Ambient temperature	-20°C to +55°C (operating) -25°C to +70°C (storage)
Relative humidity	20 to 90% (operating) up to 90% (storage)
Dimensions	70 x 70 x 54 (mm)
Weight	130 gr.

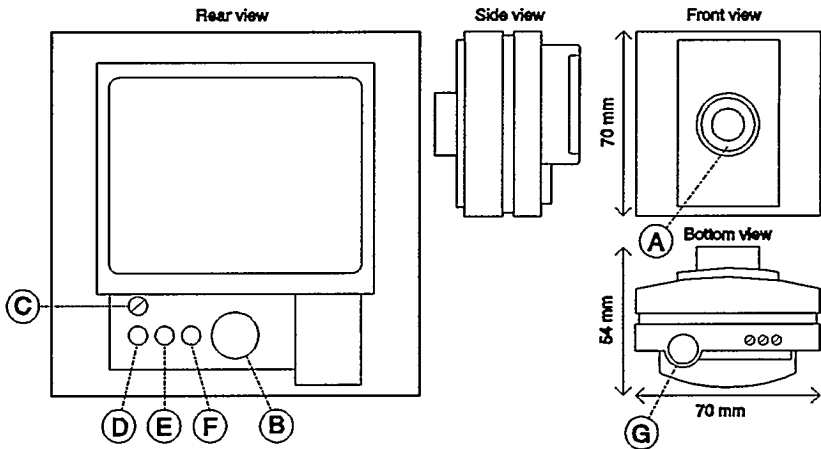


Fig. 1

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