

The five-star perfect portable partner to the LDK6

LDK 614

The introduction of the Phillips LDK6 computer-controlled television camera system was a giant leap forward in concept and design for studio and OB cameras, bringing the benefits of the microprocessor to the television producer, engineer and cameraman.

Now to match those high standards comes the perfect portable partner—of five star quality—the Philips LDR614 Rugged yet lightweight, equally at home in the studio or OB van, the computer-assisted LDK614 operates via the standard LDK6 control units or a separate control panel.

Exceptional picture quality

At the heart of the LDK614 portable camera is an LOC (low output tube with specially matched FETs. That is the basis for the LDK614 broadcast picture quality that every programme

producer wants.

The higher order scan correction circuits assure very precise colour registration and in-band and out-of-band contour correction circuits ensure brilliant pictures. There is perfect

colour matching with the LDK6. Extensive automatic features are incorporated too for quality—without effort. There is centering, black balance, white balance, dynamic beam control and flare compensation to help maintain the highest

standards at all times

Minimum cost of ownership The LDK614 comes to you as the

best of portable cameras. Yet it's cratainly not the most expensive. Cost of ownership is an important factor which has not been neglected. Triax again plays its part lis lightweight, easier to use and less expensive than multicore (yet still a match in quality). Automation makes the LDK614 quick to set up. Stability means no service downtime. And its multi-function capability (which includes a single unit ENG mode) means that it can do many different jobs—in the studie or OB van—and so obviate the need for additional cameras.

Registered trade mark for television camera tubes





Reliability built-in

Reliable triax operation is an integral part of the LDK614–backed by Phillips 10 years of experience with

Philips 10 years of experience triax cameras. The digital

triax cameras. Includiation and advanced LSI circuitry are solid state and choused in a rugged but lightweight camera farme. The camera can play many different roles, but interchangeability of the main units and optional extras can be completed quickly and easily-without camera readjustment. LDX614 cameras are all individually optional but the control of the contr

State-of-the-art

The perfect portable partner for one of the world's most lechnically perfect cameras must be able to match it. The LDK614 does just that—with its own microprocessor control, LSIs and micro-miniature components. It can also make use of most of the computer control systems of the LDK6. (Read about them overleaf).

Naturally you can use it by itself, but with the LDK6 the LDK614 becomes an integral part of what is probably the most sophisticated camera system in the world.

The compact design, rugged, weatherproof casing and wide range of accessories make the LDK614 the perfect partner to the LDK6 wherever it is used.

Unrivalled operational flexibility

The LDK614 has been designed for ease of handling so that it is equally at home in a hand-held or fixed mode ENG use is straightforward too—simply dismantle the triax cable. There's a 1½* high-resolution viewfinder or an alternative 5* for studio/EFP use. There are 6 operational memories for storing

special camera settings.

To further enhance the production capability,

there is an optional full bandwidth RGB output for chromakey,

chromakey, matting or other special effects



LDK614-The intelligent production partner for the LDK6

The ideal partnership

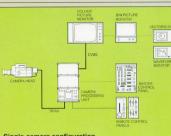
The I DK614 has been designed as the perfect portable partner for the LDK6. In addition to use on its own, it can interface with the very wide range of facilities and microprocessor technology of the LDK6 to enhance its performance and capability even further.

Master Control Panel

The Master Control Panel (MCP) acts as the "surveillance centre" of the control system, and is not linked to any particular camera chain. However, once a specific chain is selected, the MCP immediately has access to a number of setting-up and monitoring facilities of the LDK614. An electronic LOCK freezes all panel settings to avoid accidental disturbance, and a button which enables local control is provided. This overrides other operational controls at other stations within a selected camera chain. The Control Assignment Panel can be used in conjunction with the MCP. delegating it to a

The MCP can also be used as a setting-up aid. It can be divided into several discrete areas (see diagram), providing the engineer with selective control of the system.

a multi- camera



Single-camera configuration

This diagram demonstrates a simple configuration, with the camera head linked to the camera processing unit by a triax cable. This in turn is linked to the remote control unit. The camera processing unit also has provision for connection of the master control panel, monitors, etc.

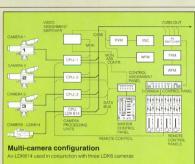


Control Assignment Panel

This panel is used to delegate the MCP to any selected camera in a multi-camera configuration. With the standard panel, any one of up to six cameras can be selected. If a nonselected camera wishes to communicate with the MCP, this will be indicated by the related call lamp.

Select status Operation 5 Set-up If the Master Control Panel

- Status selection of operational controls. This area
- Diagnostics for LDK6 operation.
 Monitoring area. This enables switching of
- 4 Operational control area, which provides the









The panel provides secondary (when not "on-air") operational controls. It enables centralised access for up to six chains, with assignment being made by the MATCH buttons on the Remote Control Panels. Switching of cameras from standby to operational modes can also be carried out. Store and recall facilities are also provided which enable control settings for six different groups of operational settings to be retained for each camera. This means that 36 operational memories are available. in a six camera configuration.

Camera Processing Unit

The CPU, with ated triax circuitry is the "black box" of the system. Its (just half the width of a 19" rack), enables a logical left to right system

layout, making it ideal for situations such as OB vans, where space is at a premium.

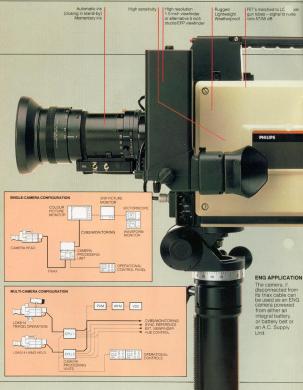
Split maintenance surveillance and Remote Control Panels

operational control panels



Primary operational controls are located on these panels-iris and master black level are on the monoknob panel, while red, green and blue individual gains and black level controls are on the painting control panels. Their design permits the panels to be co-sited or used in separate locations, depending on the station's operational procedures

LDK614 The self-contained camera system





Technical Data

LDK614

Systems
PAL. PAL-M. NTSC, SECAM

Power Supply A.C. 47-63Hz, 90-132V and 189-264V.

Power Consumption

Input Signals

Reference signal CVBS or Blackburst 1V p-p into 75 ohm looped through External viewfinder in synchronism with

Output Signals

3×CVBS 1V p-p into 75 ohm switchable to MONITORING 1xfull bandwidth KEY from camera

head with adjustable HUE Optional: R. G. B outputs 0.7V p-p into

75 ohm with multicore cable system.

Scene Illumination

noise ratio of 55dB PAL or 57dB NTSC in the Y channel at the camera head. Lens iris f3.0, reflection factor 90% with linear matrix, without contour and in and colour temp 3000°K and 0dB

Contour Correction Horizontal in band and edge of band

at 400 TV lines

Level dependency and noise coring circuits are incorporated

Colour Registration

Deviations of Red or Blue in any direction with respect to Green. In a circle of 0.8 of picture height. 40nSec. (Zone 1).

In a circle of picture width: 80nSec (Zone 2)

Geometry Error Maximum 1.5% not including lens

Gain Control

Master Selector set for 0, +6 and Individual controls for ±3dB in Red or

Optical Filter Wheel

Five position filter wheel containing

- - 85B + ND 0.9
- Gamma Correction Camera set for 0.5

Black Level Adjustment

Individual control for adjustment RED and BLUE ±15% of nominal white level.

Resolution

Limiting resolution equal to or greater than 700 TV lines Typical resolution depth 50% at 400 TV

Lenses

A wide range of manually and servo controlled lenses are available

Warm-up Time Full picture quality will be obtained from

Permissible Ambient **Temperature Range**

Cable lengths

With 8mm Ø Triax Cable; Max 650m With 11 and 14mm Ø Triax Cable; Max 1000m With 14mm Ø Triax Cable: Max 1500m (optional)

Weights

Camera Head	6.9kg
VF 1.5"	0.5kg
VF5"	3.0kg



DHILIDS