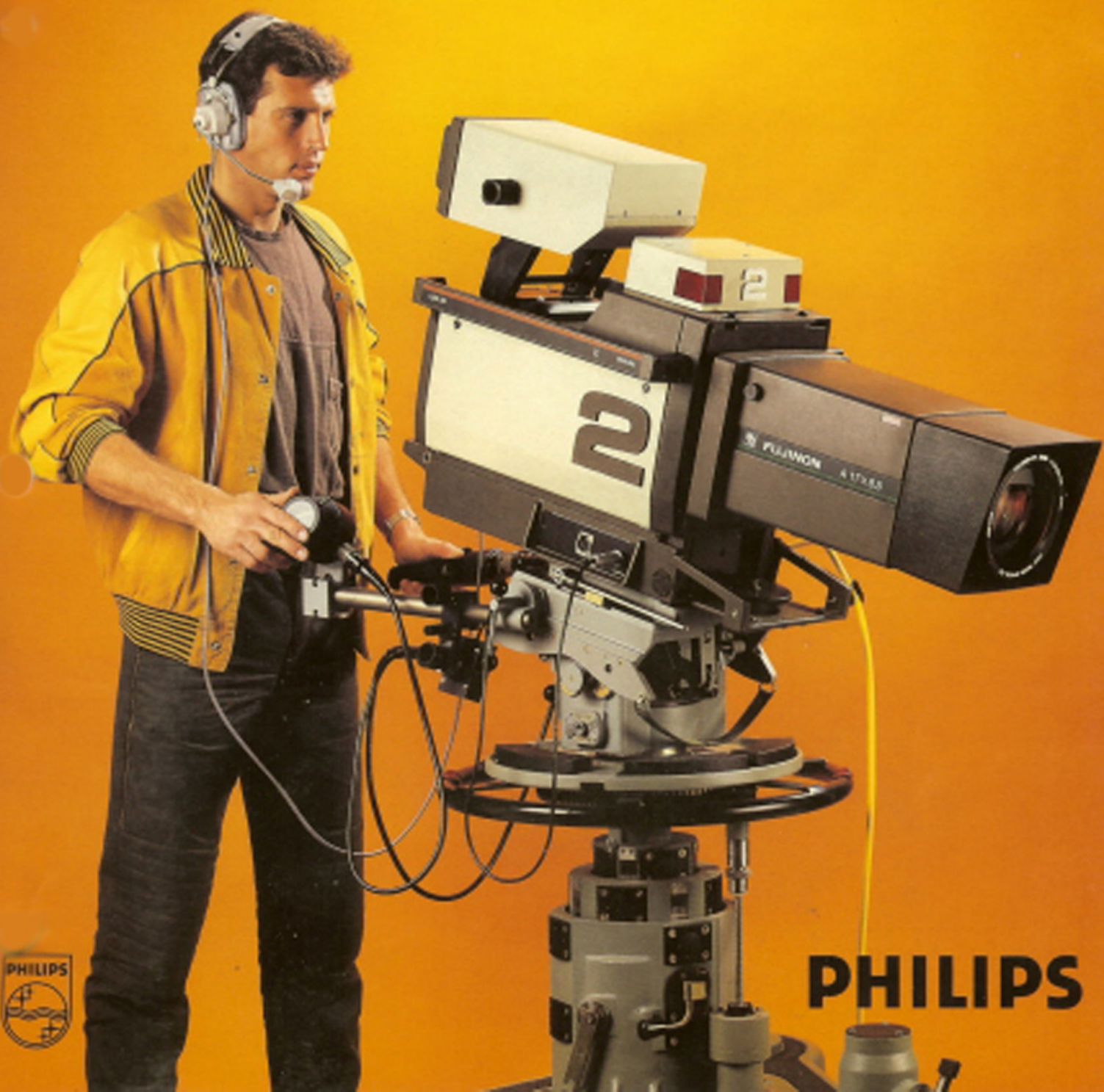


Philips LDK 26

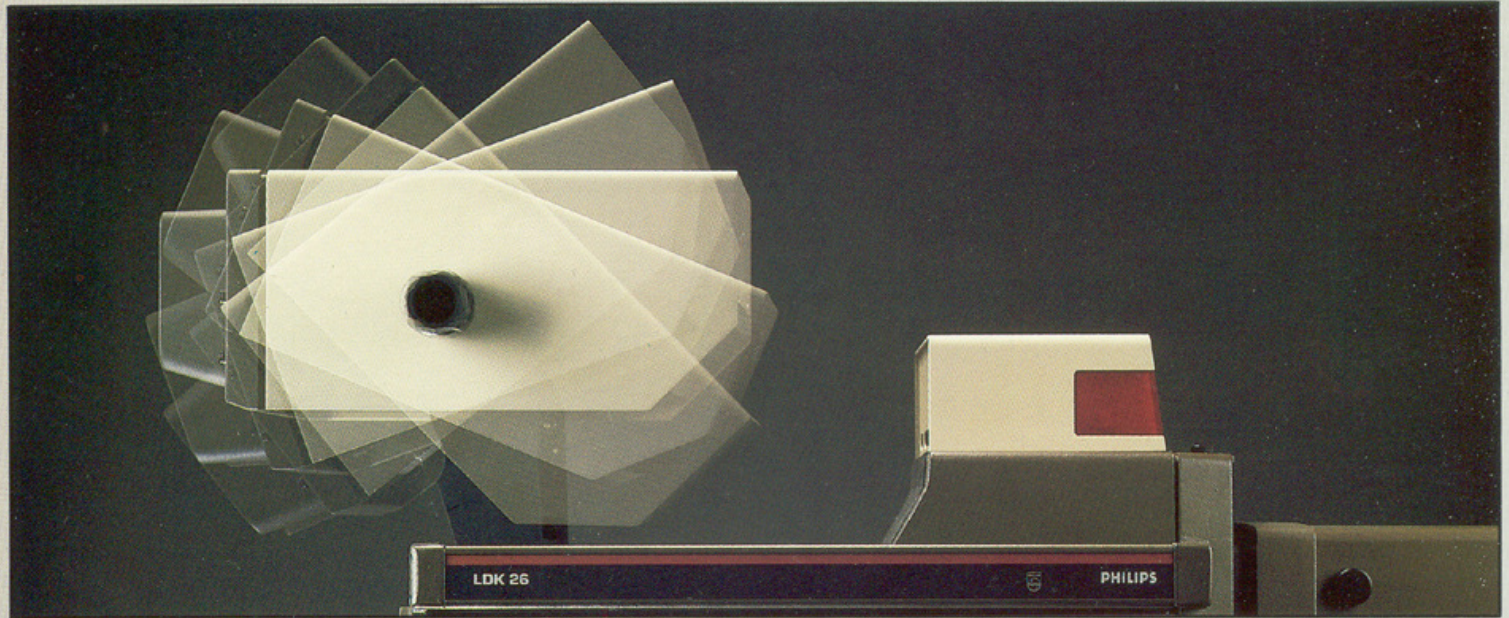
The intelligent camera system
with 18 mm tubes



PHILIPS

Performance – helped by ease of use

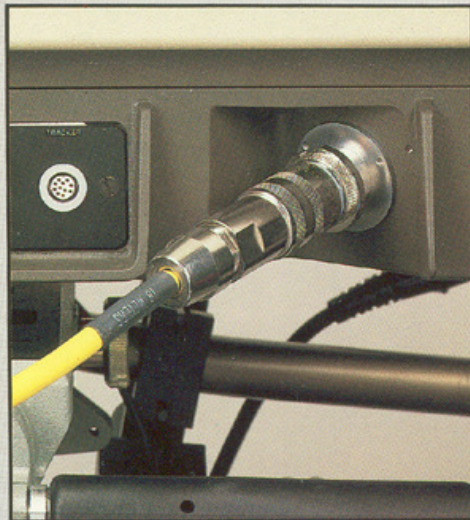
LDK 26



Ahead of its time

The LDK 26 camera head is a new development from Philips. Its smaller size with high brightness, high resolution 5 inch viewfinder will make it one of the most versatile 18 mm cameras in the studio or on location. It has a number of outstanding features.

- Integrated lens support
- Quick lens change
- Optical axis of the lens and viewfinder in one vertical plane
- A 5 position filter wheel
- A separate (controllable) auto cap
- Rotatable, tiltable and easily removable viewfinder (tilt range $\pm 60^\circ$)
- Extensive indicators and markers in the viewfinder
- Handgrips on all sides
- Provision for remote facility for intercom and external viewfinder switches (e.g. on pan bars)
- Utility power e.g. for teleprompter
- Optional provision for script board
- Rainproof housing
- One audio channel
- Extensive intercom facilities
- R, G and B and external video on VF display
- Unparalleled service accessibility



Triax – reliable, flexible

The name of Philips and the reliability of triax operation in broadcast cameras are synonymous. The triax system is used because of its great reliability, its flexibility – and above all because of the extremely positive reaction from the many Philips users of triax cameras in studio and field locations all over the world.

The triax system is an integral part of the camera chain – not an accessory. With the appropriate cable, the camera head can be sited up to 2 km from the processing unit.

The complex made simple

The LDK 26 camera system uses all the latest technology but it has been designed very much with people in mind.

For the cameraman, handling is so easy. The LDK 26 has an integrated camera lens support which ensures correct balance of the combined camera head and lens – whatever the size of the lens being used – light or heavyweight. Then there is the flexible viewfinder for extremes of pan and tilt movement. Finally there is a wide range of indicators and signal selectors together with full communication facilities.

For the engineer and video operator, the Master Control Panel acts as the surveillance centre for the whole system – a sort of electronic screwdriver for maintenance and diagnostics. It monitors and controls hundreds of functions. Used with the individual Operational Control Panels the video operator has control over the whole system.

Immediate reading of lens f-stop numbers, pre-programmed contours, etc. is possible after selection of the relevant camera by means of the MATCH knob on the Operational Control Panel.

Equally at home on location

Rugged, reliable, rainproof and able to work over a wide range of temperature, the LDK 26 performs to perfection on location. The compact size and modular design of the control panels (the MCP and CPU being only half 19" rack size) make them easier to locate in the confined space of an OB van.

In addition, full bandwidth RGB outputs for Chroma Key over long cable lengths are available, thanks to the quadrature modulation of the Red and Blue signals, and separate modulation of the Green.

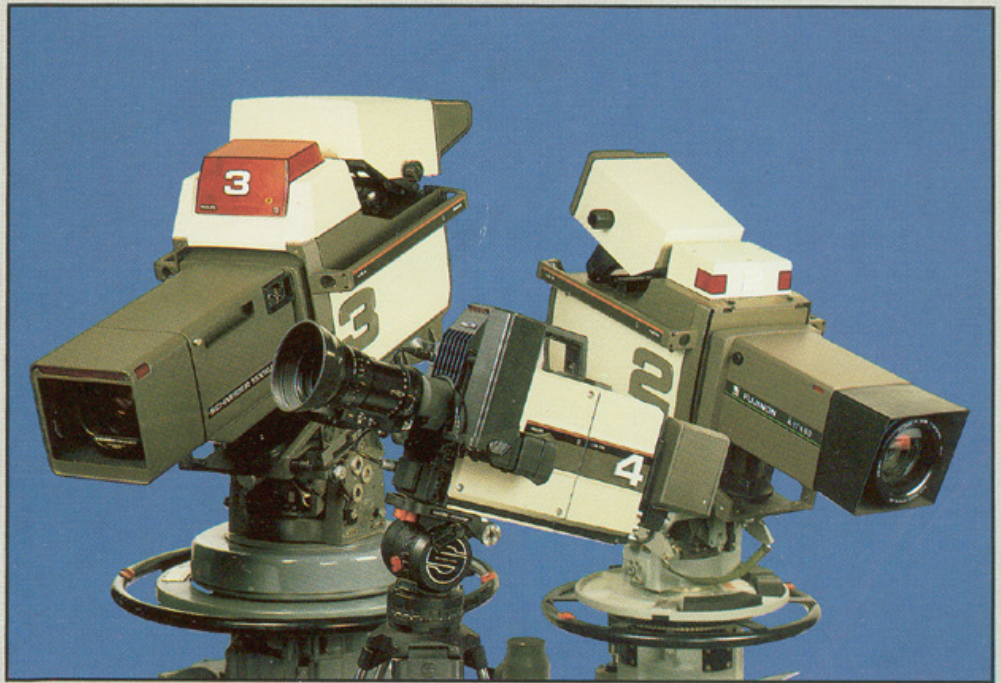
Both in the studio and on location the highest quality performance is maintained for up to 2 km (with triax repeaters up to 5 km is possible).

And simply everyone appreciates how light and easy triax cable is to handle.



A Future Safeguard

The Philips LDK 26 is one of the most advanced computer controlled 18 mm camera systems. But it is also designed to meet tomorrow's changing programming needs, and to anticipate new technical developments. Easy adaptation and extension are simplified by the digital transparency of the system.



Perfect partners

The LDK 26 will work perfectly together with the Philips LDK 6 camera – either in the studio or on location.

There is also a portable partner – the LDK 614. This rugged yet lightweight triax camera can operate independently or via the standard LDK 26 control system. All three camera systems have, of course, Philips famous compatible colorimetry.

Minimum cost of ownership

When it comes to value for money, the LDK 26 is unbeatable. Its basic purchase price is certainly more than competitive with any other computer camera in the world.

Running costs too are equally important with many cost cutting aids.

The 'distributed intelligence' system with its operational set-up and lens memories helps to minimize operation and maintenance costs, by

the considerable reduction in set-up and production times.

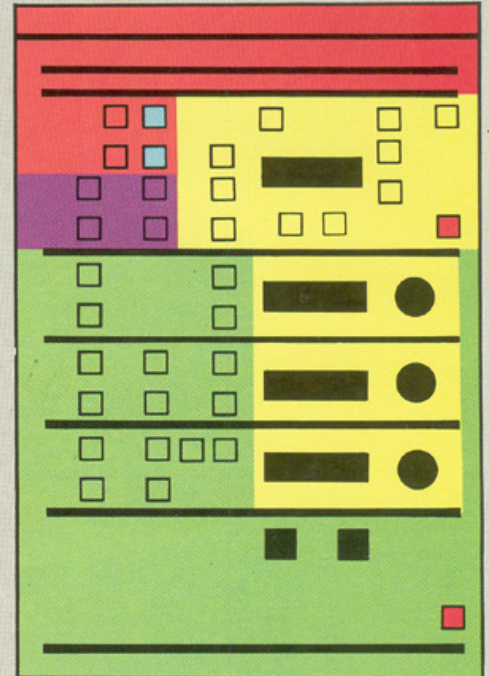
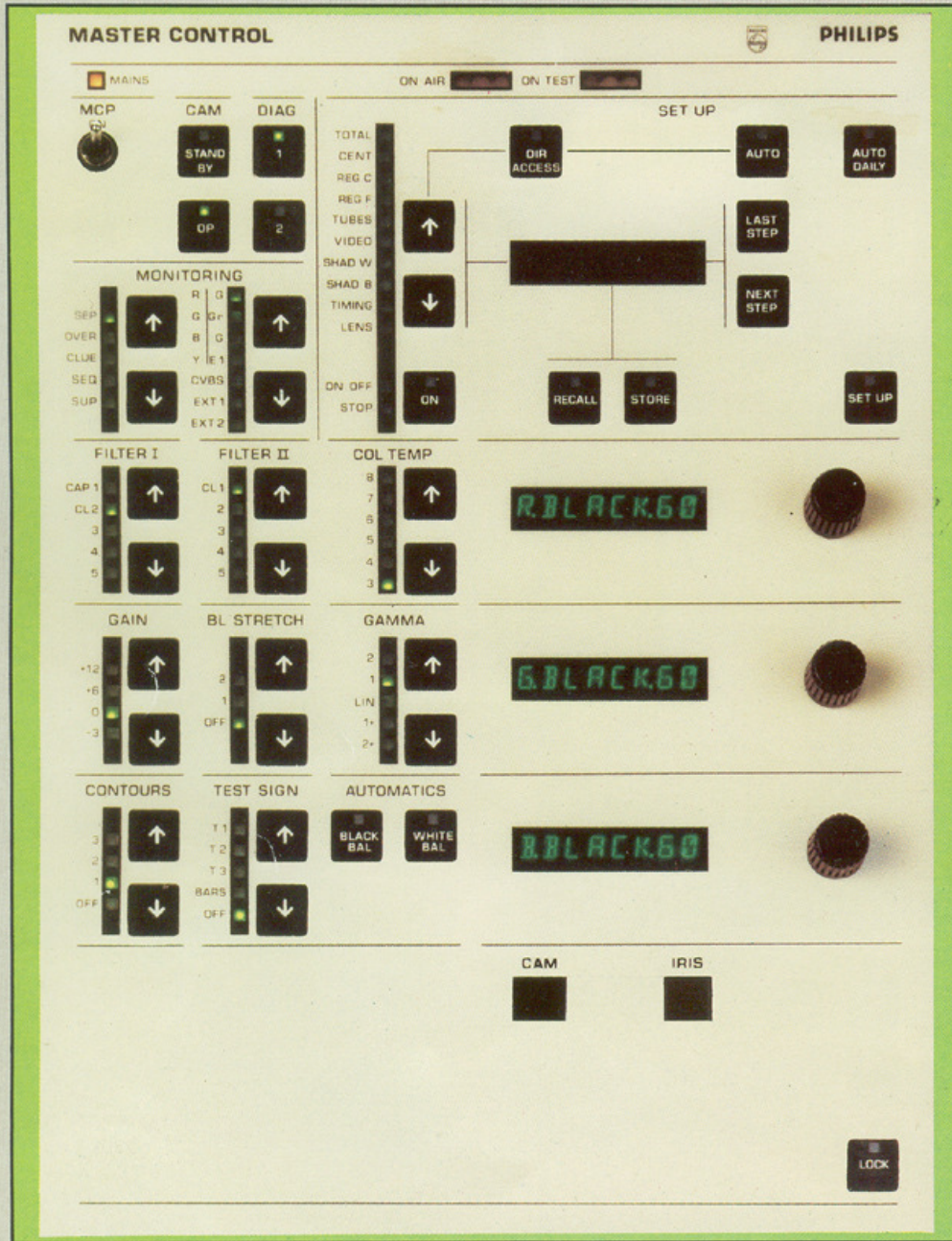
The use of triax cables, with their low investment, also means reductions in handling, labour and repair costs.

Savings are also made because the system units are independent and easily adaptable to different configurations. So investments in multi-studio configurations can be reduced.

The diagnostic system reduces the time involved in fault-finding (in the unlikely event of faults occurring).

Automatic control, easy surveillance

LDK 26



- Select status
- Diagnostics
- Monitor
- Operation
- Set-up

1. Status selection of operational controls. This area governs camera mode, system control, operation and setting-up.
2. Diagnostics, with selector buttons for both standard and optional diagnostic facilities.
3. Monitoring area. This enables switching of separate, overlaid, CLUE, sequential and superimposed video signals to waveform and picture monitors.
4. Operational control area, which provides the video operator with access to the secondary operational functions with LEDs indicating status of the function at the selected camera.

These functions are: cap, filter wheel, colour temperature, gains, black stretch, gamma and white compression selector, contour selector, automatic white and black balance, colour bar and test signal selector. Three assignable digi-pots and readouts (via the status feedback system) enable RGB gain and black level adjustments. There are separate signal displays of iris settings and selected camera number.

5. Setting-up and memory access functions are carried out from this area. Access is possible to all the system's required switch and analogue operations. These can be automatic with full auto and daily auto switches or manual via a direct access switch.

Master Control Panel

The Master Control Panel (MCP) is meant for both the video operator and engineer and gives full access to functions such as operational memories and monitoring. The MCP is assignable to any specific camera by means of the MATCH knob on the adjacent Operational Control Panel. An electronic LOCK freezes all panel settings to avoid accidental

parameter changes.

The MCP is also intended for engineering maintenance. In this capacity it acts as the "surveillance and technical control centre" of the system. Functions such as setting up and fault location can also be initiated and monitored.

The MCP is conveniently divided into several discrete areas according to functional requirement (see diagram), providing an unparalleled degree of compactness and user friendliness.

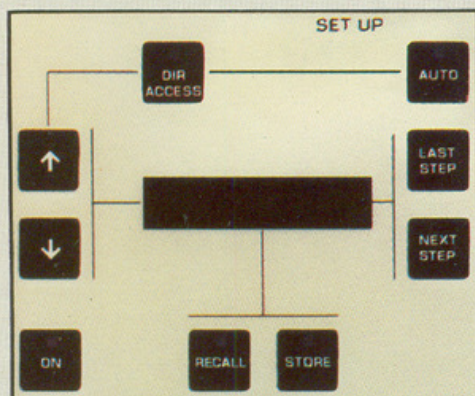
Memories – an aid for production

Every LDK 26 camera has 2 set-up and one lens memory as standard. Optionally there are 6 operational memories available.

The set-up memories may be used for special creative and technical applications. Each memory can store over 700 parameters.

The lens file can store colour temperature, flare, shading and registration.

Each of the operational memories stores gains, RGB, blacks, filter wheel position, colour temperature, gain, black stretch, gamma and contours.



Diagnostics

There is one standard diagnostic system (Diagnostics 1) and one optional system (Diagnostics 2) available for the LDK 26.

Diagnostics –1 operates on-line, and is active whenever a camera is "on". It makes no decisions which will interfere with normal "on-air" operation. However, where important characteristics deviate from normal, it warns the operator a decision is needed, and provides a readout on request.

Diagnostics –2 is a very valuable optional extra. It operates off-line, and on demand, by using signal injection techniques throughout the camera system. Messages are displayed on the picture monitor indicating probable fault location.



Status feedback

The unique status feedback system is another important advantage of the LDK 26.

The data transparency of the design enables access to, and retrieval from, any unit on the bus. All setting-up and operational control parameters are available for displays on the Master Control Panel. All settings in the Camera Processing Unit and Camera Head are generated

by the digi-pots on the Master Control Panel and are fed back to the alphanumeric displays and are shown by an exact percentage read out. This permits settings to be checked, at-a-glance, without physically measuring them.

Automatic programs

The following selectable automatic programs are available in the LDK 26:

- Full auto set-up with selectable subprograms (optional extra)
- Auto daily check
- Auto white balance
- Auto black balance
- Auto lens registration calibration
- Auto lens shading, flare and colour temperature calibration.

These auto programs provide full automatic control not only to give ease-of-use but also to produce the best results in the shortest time.

The Auto lens programs can be used when the zoom lens is equipped with a built-in diascope.

After setting the back focus, it is possible to set up the camera fully automatically after tube replacement without any manual pre-setting. This is made possible because of the full range of computer controlled tube parameters.

