# PLUMBICON STUDIO COLOUR CHAIN

## LDK 3

## CUSTOMER:

# INTRODUCTION

CONTENTS

1. GENERAL INFORMATION

2. TECHNICAL DATA

3. INSTALLATION

4. SETTING-UP

5. OPERATION

6. FAULT FINDING

## INTRODUCTION

READ THIS CHAPTER BEFORE YOU START USING THE MANUAL.
THIS WILL FACILITATE YOU IN QUICKLY FINDING THE REQUIRED INFORMATION.

The Service Notes of camera chain LDK3 are contained in three files, viz.

a. the file PLUMBICON STUDIO COLOUR CHAIN LDK3
b. the file ACCESORIES FOR STUDIO COLOUR CHAIN LDK3
c. the file with data concerning the lens and lens control units, with the exception of the servo-amplifier as far as this is mounted inside the camera head. This is the Angénieux, Evershed, Rank Taylor Hobson or Schneider manual.

File a contains information on those sections of the camera chain which have not been shaded in the drawing on the last page of this chapter.
File b contains information on the shaded sections in the drawing on the last page of this chapter.
File a is subdivided into three parts, viz. CAMERA CHAIN, CAMERA HEAD, CCU.
This is indicated on the tabs.
The section CAMERA CHAIN deals with information concerning the complete chain, such as Technical Data, Installation, Setting-up, Operation and Fault finding.
The section CAMERA HEAD contains information on the camera head and is subdivided into a chapter General and some other chapters.
Chapter "General" contains information on the complete camera head such as circuit description, replacing parts, parts list, circuit and wiring diagrams. The other chapters contain all the information on the individual units such as video amplifier, blanking generator etc.
Section CCU is divided in the same way as section CAMERA HEAD.
Each chapter is numbered; this number can be found on the first page of section CAMERA CHAIN, CAMERA HEAD or CCU.

## SPECIFICATION

This Studio Colour Camera consists of

| Description | Type no. | Serial no. |
|---|---|---|
| Camera head | | |
| Prism | | |
| Viewfinder | | |
| Servo-amplifier | | |
| Zoom control unit | | |
| Focusing unit | | |
| Lens drive unit | | |
| Deflection unit R | | |
| Deflection unit G | | |
| Deflection unit B | | |
| CCU | | |
| Black-white monitor | | |
| Oscilloscope unit | | |
| VIDEO IN module | | |
| CONTOUR EXTRACTOR module | | |
| CONTOUR PROCESSOR module | | |
| MATRIX module | | |
| RED VIDEO OUT module | | |
| GREEN VIDEO OUT module | | |
| BLUE VIDEO OUT module | | |
| MON. X module | | |
| MON. W module | | |
| PULSE module | | |
| INTERCOM module | | |
| SCANNING module | | |
| FOCUS ALIGN. module | | |
| Extender | | |
| Extender | | |
| REMOTE module | | |
| CODER INPUT module | | |
| COLOUR BAR module | | |
| CODER PULSE module | | |
| CODER MOD. module | | |
| CODER OUT module | | |
| 2x12 V module | | |
| 2x12 V module | | |
| 125 V module | | |
| 300 V module | | |
| 16 V module | | |
| AC module | | |
| Blower unit | | |

VERSIONS OF LDK3 COLOUR CAMERA CHAIN

Some versions of the LDK3 type number are designated by a "stroke" number. This stroke number indicates for which system (CCIR/PAL or EIA/NTSC) the chain is suitable, in which housing the CCU is accommodated (rack or 3 cabinets) and which video connectors (Damar und Hagen or BNC) are fitted. For the various versions, refer to the attached table.
In all versions camera head type LDK 4800/00 is used, but the CCU LDK 4900 may be composed of different units.
The table shows that when the CCU is accommodated in a 19" rack LDK 4975/60 the black/white monitor is suitable for rack-mounting (LDK 2151/02). When this monitor is supplied in the cabinet-version (LDK 2151/00), the CCU is accommodated in 3 cabinets LDK 4975/00. The waveform monitor LDK 4910/00 and the local control panel LDK 4930/00 are identical in all versions of the camera chain.
The electronics unit LDK 4950 is available in 3 versions.
Version -/00 is fitted with D H video connectors and is suitable for the "European" system PAL/CCIR.
The -/10 version only differs in that BNC-video connectors are used.
The same connectors are used for the -/50 version, however, this is suitable for the EIA/NTSC system.
The power-supply section LDK 4990/00 and fan unit LDK 4976/00 are identical in all versions.

Note:

For type numbers and data on accessories and p. c. board extenders, refer to the LDK 3 accessories manual.

CAMERA SYSTEM LDK 3 / KAMERASYSTEM LDK 3 / SYSTEME DE CAMERA LDK 3

| | /00<br>CCIR<br>PAL<br>Gestell<br>Rack<br>D H | /02<br>CCIR<br>PAL<br>3x19" cab.-<br>Gehäuse<br>D H | /10<br>CCIR<br>PAL<br>Gestell<br>Rack<br>BNC | /12<br>CCIR<br>PAL<br>3x19" cab.<br>Gehäuse<br>BNC | /50<br>EIA<br>NTSC<br>Gestell<br>Rack<br>BNC | /52<br>EIA<br>NTSC<br>3x19" cab.-<br>Gehäuse<br>BNC |
|---|---|---|---|---|---|---|
| Camera head<br>Kamerakopf<br>Tête de câmera | LDK 4800/00 | LDK 4800/00 | LDK 4800/00 | LDK 4800/00 | LDK 4800/00 | LDK 4800/00 |
| CCU<br>Steuergerät<br>Voie de commande | LDK 4900/00 | LDK 4900/02 | LDK 4900/10 | LDK 4900/12 | LDK 4900/50 | LDK 4900/52 |
| Housing<br>Gehäuse<br>Boîtier | LDK 4975/60 | LDK 4975/00 | LDK 4975/60 | LDK 4975/00 | LDK 4975/60 | LDK 4975/00 |
| Picture mon.<br>Bildsichtgerät<br>Moniteur vidéo | LDH 2151/02 | LDH 2151/00 | LDH 2151/02 | LDH 2151/00 | LDH 2151/02 | LDH 2151/00 |
| W.F. mon.<br>Kontrollgerät<br>Oscilloscope de contrôle | LDK 4910/00 | LDK 4910/00 | LDK 4910/00 | LDK 4910/00 | LDK 4910/00 | LDK 4910/00 |
| LC panel<br>NS-Platine<br>Panneau LC | LDK 4930/00 | LDK 4930/00 | LDK 4930/00 | LDK 4930/00 | LDK 4930/00 | LDK 4930/00 |
| Electr. unit<br>Elektronikeinheit<br>Unité électronique | LDK 4950/00 | LDK 4950/00 | LDK 4950/10 | LDK 4950/10 | LDK 4950/50 | LDK 4950/50 |
| P.S. unit<br>Versorgungseinheit<br>Unité d'alimentation | LDK 4990/00 | LDK 4990/00 | LDK 4990/00 | LDK 4990/00 | LDK 4990/00 | LDK 4990/00 |
| Vent. unit<br>Gebläse-Einheit<br>Unité de ventilateur | LDK 4976/00 | LDK 4976/00 | LDK 4976/00 | LDK 4976/00 | LDK 4976/00 | LDK 4976/00 |

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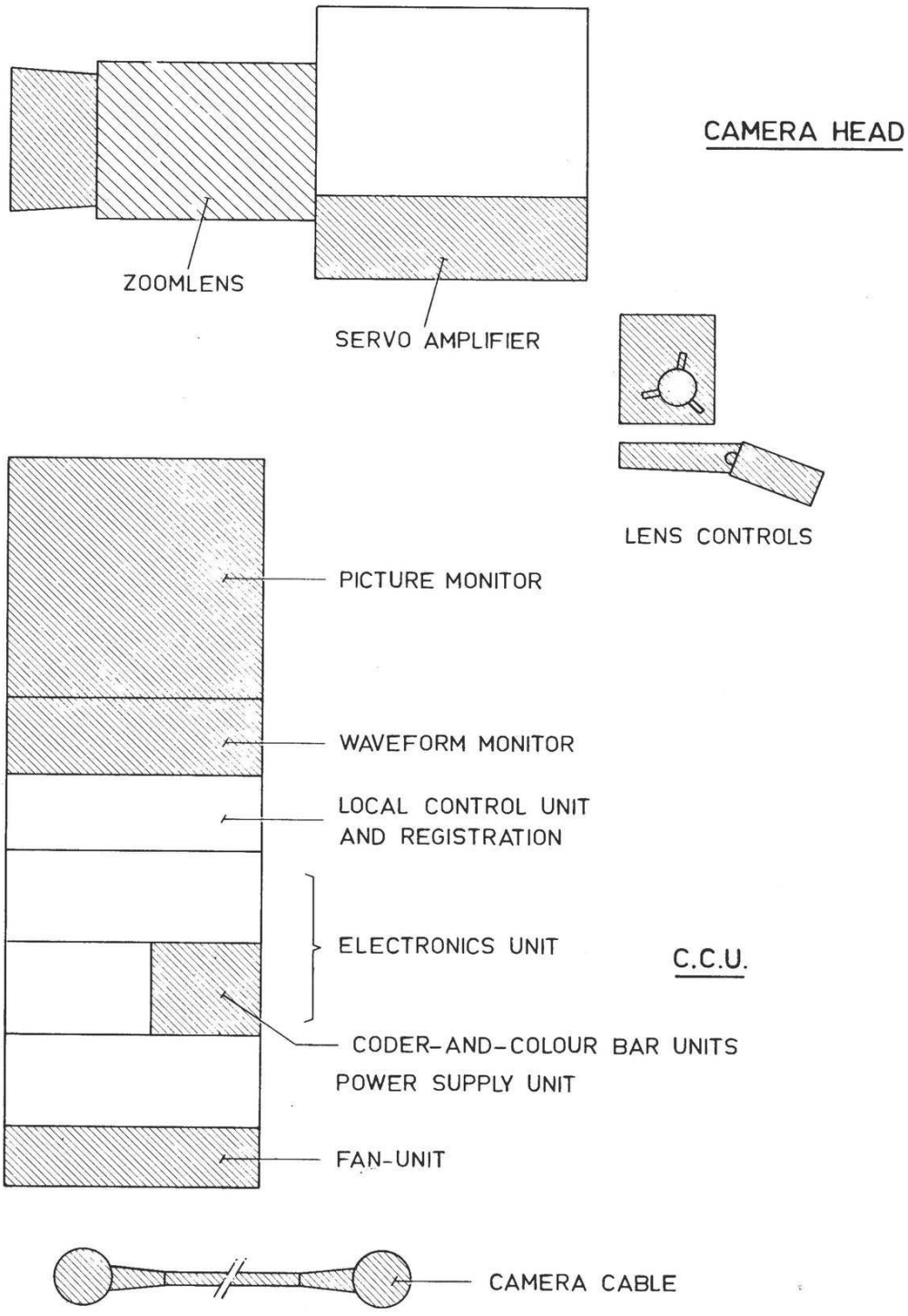
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| Vent. unit<br>Gebläse-Einheit<br>Unité de ventilateur | LDK 4976/00 | LDK 4976/00 | LDK 4976/00 | LDK 4976/00 | LDK 4976/00 | LDK 4976/00 |

# INDEX FOR VARIOUS SERVICE MANUALS FOR PLUMBICON COLOUR STUDIO CHAIN LDK 3




INFORMATION CONCERNING ITEMS INDICATED BY HATCHED LINES CAN BE FOUND IN SEPARATE MANUALS.

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