BTS

Broadcast Television Systems GmbH

A joint company of Bosch and Philips

LDK 90
Frame Transfer-CCD
Camera System
Condensed Catalogue 1987/88



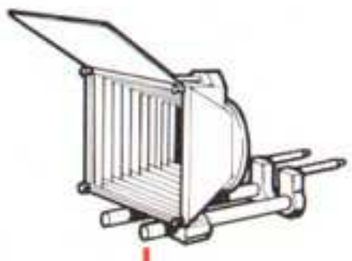




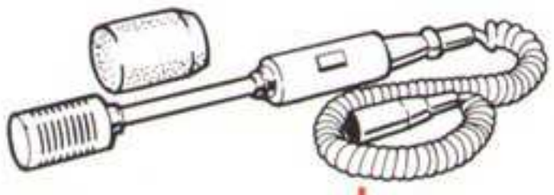


K 791 e

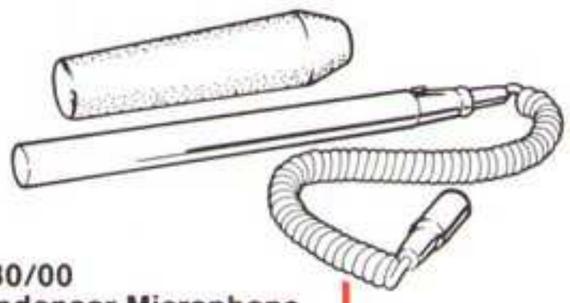
LDK 90 SCHEMATIC PARTS DIAGRAM



Matte Box System
Grosziel Film-Technik

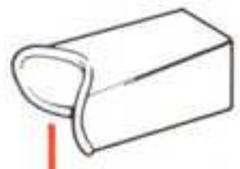


LDK 8331/00
Philips Electret Microphone



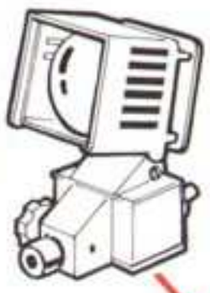
LDK 8330/00
AKG Condensor Microphone

LDK 6992/02
Sunhood

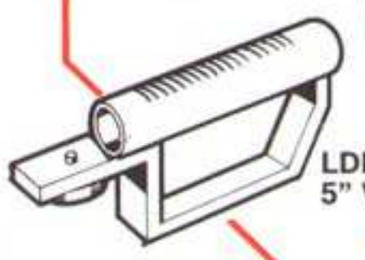


LBB 3176/00
Mini Jack Earphone





(12 V)
Portable Light Set
C-ULS-S
Single bulb
C-ULS-D (not shown)
Double bulb



Handgrip
(supplied with adaptor)



LDK 4309/00
5" Viewfinder

LDK 6506/09
Top Mount
or
LDK 6506/02
Side Mount



LDK 8191
Extension
length 5 m

LENSES



Angenieux 14 × 7
LDK 6114/10



Canon J 13 × 6.6
LDK 6114/20
J 15 × 7
LDK 6114/21



Fujinon 7 × 5
LDK 6114/30
14 × 6.6
LDK 6114/31
16 × 7
LDK 6114/32

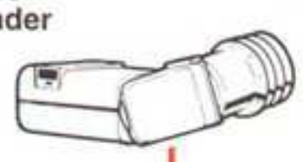


Schneider TV 59.02
LDK 6114/40

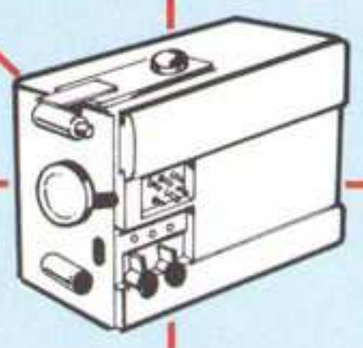
LDK 6505/09
Mounting Bracket



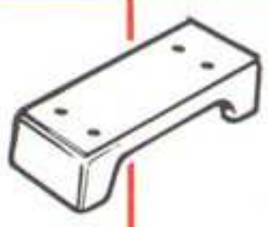
LDK 4304/00
1.5" Viewfinder



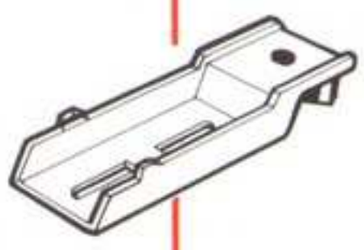
LDK 90



LDK 90/00
Camera Head (50 Hz)
LDK 90/50
Camera Head (60 Hz)



Shoulder Pad
(supplied with camera head)

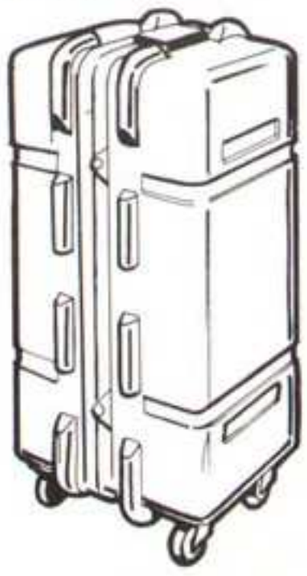


LDK 6508/30
Tripod Adaptor

Tripod Accessories
Remote Control Kits



LDK 6995/90
Transport Case

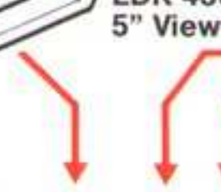


LDK 6999/00 (not shown)
Rain Cover



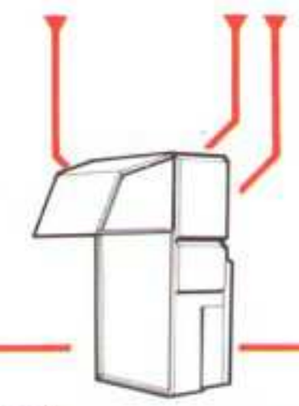
LDK 6503/02
Wedge Plate
– for Sachtler Video 16-18 tripods

Tripods
(on request)



ENG

LDK 4490/xx*
ENG Adaptor



Betacam

LDK 4496/xx*
Betacam Adaptor

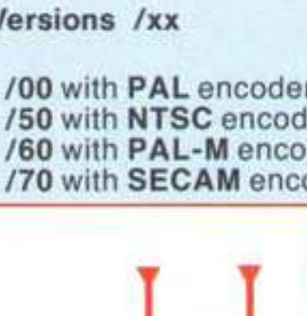
EFP

LDK 4491/xx*
EFP Multicore Adaptor

Multicore camera cable, diam. 11 mm
LDK 8190/01 length **10 m**
LDK 8190/05 length **50 m**
LDK 8190/10 length **100 m**

Max. distance between Camera and RCU is **300 m**





LDK 8115/30 (not shown)
19" Rack Mounting Frame
(for 2 x RCU)

LDK 4377/20
AC Power Supply
(incl. 5 m connection cable)

LDK 4377/30
AC Power Supply
(without battery charger)
incl. 5 m connection cable



LDK 4493/00
Remote Control Unit



RCU



BBT-5 /-1
– 1/2" ca
– Oxide t

BCB 1
Standa



BCB 1

BBT-5M /-10M /-20M /-30M
– 1/2" cassettes for Betacam SP
– Metal tape



BCB 5

BCB 5
Betacam

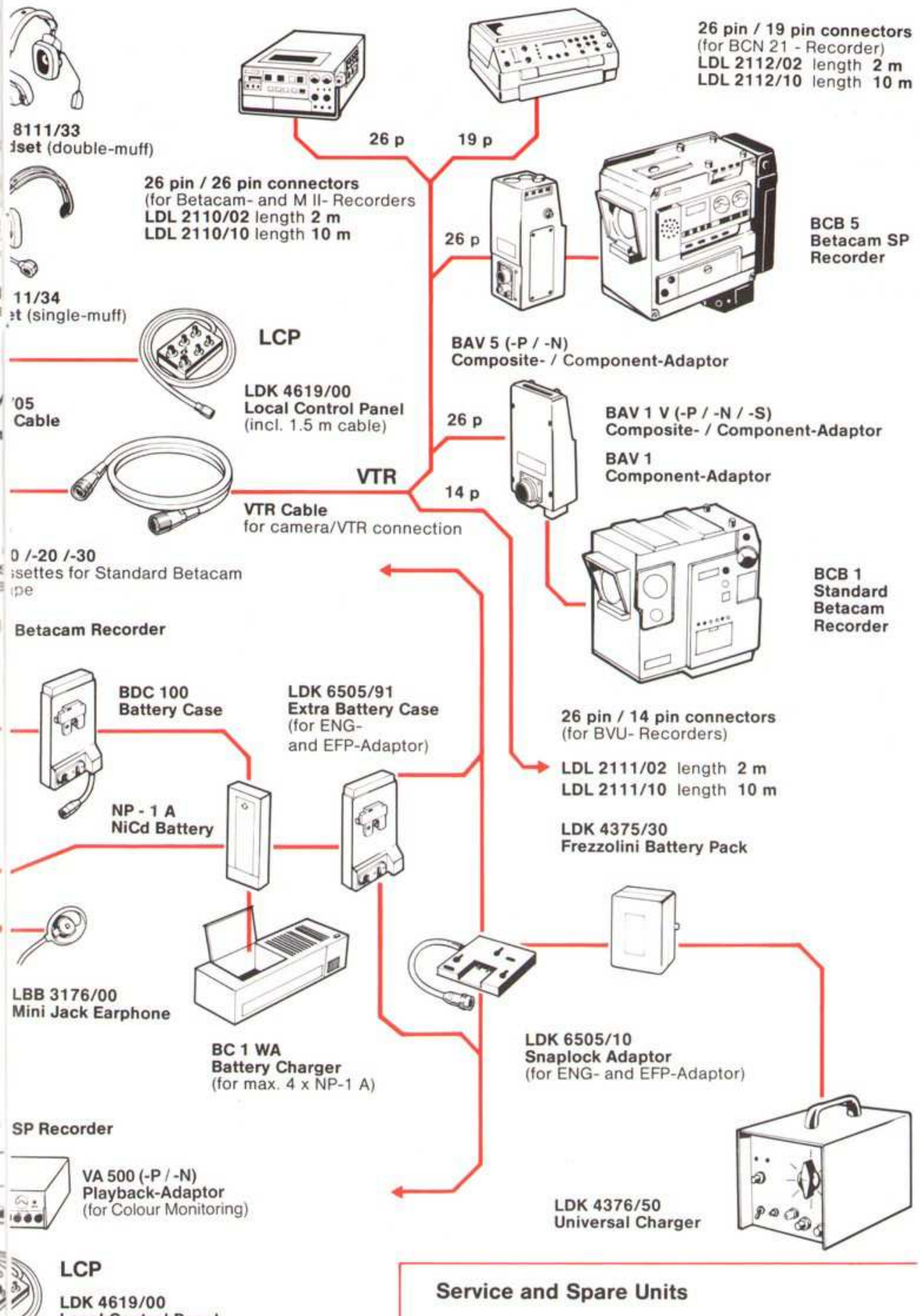


***Versions /xx**

– **/00** with **PAL** encoder & genlock
– **/50** with **NTSC** encoder & genlock
– **/60** with **PAL-M** encoder & genlock
– **/70** with **SECAM** encoder & genlock

LDK 90

INTRODUCTION
CONTENTS



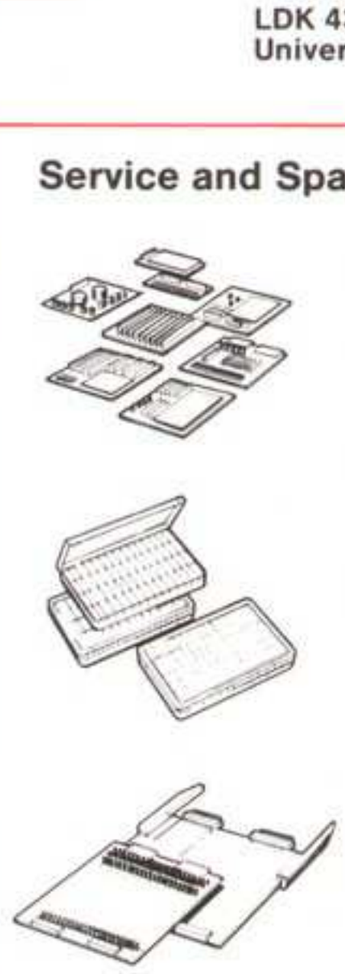
The **BTS LDK 90** is the cameramans choice for an ergonomic, light weight portable camera system with **CCD - FT** (Frame Transfer) image sensors, that stands for top quality pictures.

- CCD-FT with 604 (PAL) or 610 (NTSC) pixels for high resolution.
- Quick fit adaptors allow the camera to be used in ENG, EFP (multicore) or as a camera recorder.
- Frame transfer CCD image sensors and optical system are cemented together this gives accurate and stable impeccable registration.
- No geometric distortion, no burn in, no lag, no smear and no comet tailing, no magnetic influence and no microphonics.
- Microprocessor control of automatics and operational functions.
- Electronic colour temperature control.
- Dynamic Contrast Control (DCC) provides in excess of 500 % over peak white of contrast handling without loss of detail.
- Momentary iris with spot measurement.

Service and Spare Units

LDK 90 System Spare Boards
LDK 8680/xx*
– For LDK 90 with ENG adaptor
LDK 8681/00
– For Remote Control Unit (RCU) and EFP adaptor
LDK 8682/xx*
– For Betacam adaptor

LDK 90 Spare Component Kit
LDK 8604/90
– For LDK 90 System



LDK 90 Service Extenders
LDK 4830/10
Service Extenders Camera Set

CONTENTS

Introduction	3
LDK 90 CCD Portable Camera System	4
Camera Head and Adaptors	5
Camera Recorder Systems	6/7
Viewfinders and Accessories	8
Lenses	9
Power Supply and Battery Systems	10
Audio and Intercom	11
Remote Control Units	12/13
Cables and Connectors	14
Camera Accessories	15
Service and Spare Units	16
System Configurations	17
Typenumber Index	18/19

LDK 90 CCD Portable Camera System

APPLICATIONS



870159-61

LDK 90 - for ENG

- Ergonomics for ease-of-use
- Free look over camera
- Very wide automatic white balance range with two memory settings. Two preset colour temperature settings: Studio (3200 K) and Daylight (5600 K)
- 1.5" viewfinder with indicators around picture area of all operational parameters
- Low power consumption
- EBU/SMPTE video recorder connection



870159-08

LDK 90 - for EFP multicore

- Ergonomically ideal for hand-held use
- Up to 300 meter cable length
- Choice of 1.5" or 5" viewfinders
- Full bandwidth R, G, B monitoring and Composite outputs
- Complete remote control for unattended operation
- Instant ENG use with EBU/SMPTE video recorder connection



870159-60

LDK 90 - for Betacam

- Ergonomically ideal for ease-of-use, free look over camera
- Perfect balance of weight on shoulder
- Low weight
- Choice of 1.5" or 5" viewfinders
- Composite output and genlock
- Connection for optional local control panel (LCP)
- Suited for standard and Betacam-SP recorders

LDK 90 CCD Portable Camera System

CAMERA HEAD AND ADAPTORS



870159-27

LDK 90/xx Camera Head

- Due to CCD image sensors no ageing and no deterioration in picture quality
- High sensitivity and stability due to CCD image sensors, Quartz filter and f 1.4 optical prism
- High and low gain selection
- Low power consumption
- Menu panel with extra operational controls
- Very wide automatic white balance range with two memory settings. Two preset colour temperature settings (3200 K and 5600 K)
- Microprocessor controlled automatic iris
- Weatherproof and RFI protected
- Includes: Operational-/ Maintenance-manual
  Shoulderpad
  Camera numbers

Versions /xx

- **/00 50 Hz**
- **/50 60 Hz**



870159-35

LDK 4490/xx ENG Adaptor

- Y, P_R, P_B (Y, U, V) component video outputs for new generation video tape recorders (such as 1/2″)
- Composite output for conventional recorders (such as 3/4″ and 1″)
- 26 pole SMPTE/EBU VTR connector
- Connection for optional local control panel (LCP)
- Handgrip (not shown) can support professional microphones
- Headphone and earphone connections



870159-42

LDK 4496/xx BETACAM Adaptor

- Interface between camera and Betacam recorders
- Composite output and genlock input
- Connection for optional local control panel (LCP)
- Handgrip (not shown) can support professional microphones
- Earphone connection
- Suited for standard and Betacam SP recorders

LDK 4495/xx M II Adaptor

- Interface between camera and M II recorder



870159-35 A

LDK 4491/xx
EFP Multicore Adaptor

- Multicore cable remote control up to 300 meters
- Instant ENG use when multicore cable is removed
- Composite output and genlock input
- Handgrip (not shown) can support professional microphones
- Headset connection

Versions /xx

- **/00** with **PAL** encoder & genlock
- **/50** with **NTSC** encoder & genlock
- **/60** with **PAL-M** encoder & genlock
- **/70** with **SECAM** encoder & genlock

Camera Recorder Systems

BETACAM 1/2"
CAMERA RECORDER BCB 5
CAMERA RECORDER BCB 1



870159-58

BCB 5 Betacam SP Recorder
- Latest development on-camera recorder systems
- 4-channel audio
- Superior picture quality
- Built-in Time Code Generator/Reader
- Playback in to camera viewfinder
- Automatic Back Space Editing

BAV 5 (-P / -N) (not shown)
Composite- / Component-Adaptor
- Camera operation with BCB 5 separated from the camera

VA 500 (-P / -N) (not shown)
Playback Adaptor
- Colour Monitoring for BCB 5 Betacam recorder



87-28919-R

BCB 1 Standard Betacam Recorder
- Worldwide accepted on-camera recorder system
- 2-channel audio with Dolby C
- Built-in Time Code Generator
- Automatic Back Space Editing

BAV 1 (not shown)
Component-Adaptor
- Camera operation with BCB 1 separated from the camera

BAV 1 V (-P / -N / -S) (not shown)
Composite- / Component-Adaptor
- Camera operation with BCB 1 separated from the camera



870159-20



870159-68

BBT-5 /-10 /-20 /-30
- 1/2" cassettes for standard Betacam
- Oxide tape

BBT-5M /-10M /-20M /-30M
- 1/2" cassettes for Betacam SP
- Metal tape

BBT-5 CL (not shown)
Cleaning Tape

For more information see Betacam brochure

Recorder Systems and Editing

BETACAM 1/2"
FIELD RECORDER/PLAYER
STUDIO POST PRODUCTION EDITING

Field Applications



281049 D

BCB 25 (not shown)
Betacam Field Recorder/Player
- Composite and Component I/O
- 2-channel audio with Dolby C
- Search Mode facilities
- Built-in Time Code Gen./Reader
- Back Space Editing
- Recorded pictures can be played back immediately
- Compact and lightweight. 8.4 kg including battery and cassette

BCB 21 (not shown)
Betacam Field Player
- Composite Video Output
- 2-channel audio with Dolby C
- Search Mode facilities
- Optional Time Code Reader
- Compact and lightweight. 7.6 kg including battery and cassette

BCB 35
Betacam SP Field Recorder/Player
- Composite and Component I/O
- 4-channel audio
- Frame accurate back space editing
- Search Mode facilities
- Built-in Time Code Gen./Reader
- Metal-/Oxide tape cassette
- Compact and lightweight. 8.7 kg including battery and cassette

For more information see Betacam brochure

Studio Applications



281050 D

BCB 40 (not shown)
Betacam Studio Recorder/Player
- Built-in Editing. Insert, Assemble for Video, Audio 1/2 and Time Code
- Auto Preview/Review
- High Speed Picture Search
- Built-in Time Code Gen./Reader (SMPTE/EBU). Independant Time Code Track. Reinsertion possible
- RS-422 serial interface (9-pin) for BBE 900 editing system
- 36-pin parallel interface for simple remote control applications
- DUB/Component Input/Output
- 2-channel audio with Dolby C
- Built-in Time Base Corrector
- U-matic H dub-output

BCB 10 (not shown)
Betacam Studio Player
- High Speed Picture Search
- Built-in Time Code Reader (SMPT/EBU)
- Built-in Time Base Corrector

BCB 15 (not shown)
Betacam Studio Player with DT*
- Dynamic Tracking (DT) mode
- High Speed Picture Search
- Built-in Time Base Corrector
- Built-in Time Code Reader (SMPTE/EBU)

*DT = Dynamic Tracking

Studio Post Production Editing



281048-R

BBE 900
Automatic Editing Control Unit
- Up to four VTRs can be controlled
- Switcher or video/audio mixers can be controlled from the system
- 2 Auxiliary sources can be assigned to access (live camera, black, colour bars)
- Multiple Source Selection for simultaneous control
- Time Code or Control Track pulses can be read in any combination and selected independently for each machine
- Battery Backup protects EDL (Edit Decision List) in case of power failure

BCB 75
Betacam SP Studio Rec./Player
- Built-in Editing. Insert, Assemble for Video, Audio 1/2 and Time Code
- Dynamic Tracking (DT) mode
- 4-channel audio
- Built-in Time Base Corrector
- Built-in Time Code Gen./Reader
- Built-in character generator (TC in video)
- Built-in two machine editing capability
- Built-in self-diagnostics

For more information see Betacam brochure

LDK 90 Accessories

VIEWFINDERS
PORTABLE LIGHT
ADDITIONAL ACCESSORIES



870159-37

LDK 4309/00 5" Viewfinder
- Large tilt range
- "On air" light on top
- Electrical connection is identical to that of 1.5" viewfinder

LDK 6506/09 Top Mount
- For tripod use fitting on top of the camera

LDK 6506/02 Side Mount
- For tripod use fitting on side of the camera



870159-33

LDK 6992/02 Sunhood
- For 5" viewfinder



870159-08 A

LDK 4304/00 1.5" Viewfinder
- For portable camera operation
- Diopter adjustment
- Mounts directly onto a sliding rail
- Viewfinder position is adjustable in three directions for individual preference
- Eye-piece tiltable over 180 degrees



870159-36

Portable Light Set (12 V)
- Available as single or double bulb from Anton Bauer

C-ULS-S
- Single Ultra set

C-ULS-D
- Double Ultra set



870159-32

LDK 6505/09 Mounting Bracket
- For several accessories (e.g. portable light, microphones)
- Can be mounted on ENG, EFP and Betacam adaptors



870159-7 A

Shoulder Pad
- Supplied with camera head
- Can be mounted on the camer bottom for correct balance of any camera / adaptor/ recorder combination



870159-67

LDK 6503/02 Wedge Plate (not shown)
- For Sachtler Video 16-18 tripod

LDK 6508/30 Tripod Adaptor
- Is to be used if shoulder pad is mounted on the camera bottom
- Otherwise the camera can be mounted directly to the wedge plate

LDK 90 Accessories

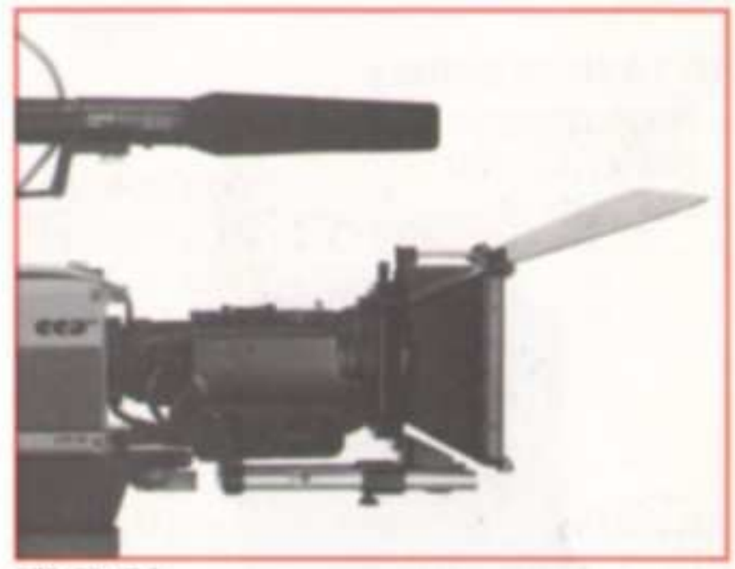
LENSES
ADDITIONAL ACCESSORIES



850254-32



870159-39



870159-17 A

Matte Box

- The LDK 90 is prepared to accept the matte box system of Grosziel Film-Technik GmbH, München

Sample selection of 1/2" lenses for LDK 90

Manufacturer	Schneider	Fujinon			Canon		Angenieux
Manufacturers type	TV 59.02	7 × 5	14 × 6.6	16 × 7	J 13 × 6.6	J 15 × 7	14 × 7
BTS type number (lens only)	**LDK 6114/40**	**LDK 6114/30**	**LDK 6114/31**	**LDK 6114/32**	**LDK 6114/20**	**LDK 6114/21**	**LDK 6114/10**
Focal length (mm)	6.5-91	5-35	6.6-92	7-112	6.6-86	7-105	7-98
Zoom ratio	14 ×	7 ×	14 ×	16 ×	13 ×	15 ×	14 ×
Range extender	2 ×	—	2 ×	—	2 ×	—	2 ×
Max. aperture f	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Min. Obj. distance (m)	0.8	0.3	0.8	0.95	0.8	1.0	0.87
Weight (kg)	1.8	1.6	1.39	1.36	1.45	1.5	1.4
Tripod Accessories*	1 + 2	1	1 + 2	1 + 2	1 + 2	1 + 2	1
Macro	yes	—	yes	yes	—	—	yes

* Tripod Accessories:
1. Remote control kit for manual focus and servo zoom (semi servo)
2. Remote control kit for servo focus and servo zoom (full servo)

This table is only a guide to recommended lenses for the LDK 90

LDK 90 Accessories

BATTERY SYSTEMS
AC POWER SUPPLY



870159-31

NP 1A NiCd Battery
- Rechargeable NiCd battery (12 V - 1.7 Ah)



870159-44 R

BDC 100 Battery Case
- Extra battery case for NP 1A
  - For BCB 1 Betacam only

LDK 6505/91 (not shown)
- Extra battery case for NP 1A
- For ENG / EFP adaptors only



870159-45

BC 1WA Battery Charger
- Battery charger for up to four NP 1A NiCd batteries



870159-43

LDK 4375/30 Battery Pack
- Frezzolini battery pack (14.4 V - 4 Ah)



870159-50

LDK 6505/10 Snaplock Adaptor
- For Frezzolini / Bauer battery pack with 4 pole XLR connector
- For ENG-/EFP adaptors only



870159-40

LDK 4376/50 Universal Charger
- Universal Fast / Slow charger for Frezzolini packs



870159-41 R

LDK 4377/20 AC Power Supply
- AC Power supply (15.5 V - 5A)
- Built-in overnight battery charger for 4x NP 1A NiCd batteries
- One auxillary connector

LDK 4377/30 (not shown)
AC Power Supply
- Without built-in battery charger

LDK 90 Accessories

AUDIO & INTERCOM



870159-49

LDK 8330/00
AKG Condensor Microphone

- Condensor microphone with 9-53 V phantom powering
- Including windscreen, mounting adaptor and cable



870159-32

LDK 6505/09 Mounting Bracket

- For several accessories (e.g. portable light, microphones)
- Can be mounted on ENG, EFP and Betacam adaptors



870159-48

LDK 8331/00
Philips Electret Microphone

- Back Plate Electret microphone with 11-52 V phantom powering
- Including windscreen, mounting adaptor and cable



870159-47

LDK 8111/33 Headset

- Headset, double-muff, with 6 mm RTS-connector
- For intercom application



870159-46

LDK 8111/34 Headset

- Headset, single-muff, with 6 mm RTS-connector
- For intercom application



870159-34

LBB 3176/00
Mini Jack Earphone

- Mini jack earphone with 3.5 mm connector
- For sound control

Remote Control Unit

EFP APPLICATION



870159-30

LDK 4493/00
Remote Control Unit (RCU)

- Powering and full remote control of camera via 19-pole multicore cable up to 300 m
- All controls on front
- Optional compact Local Control Panel (LCP) for operational functions
- Intercom with camera and 4-wire or 2-wire party line to studio systems



870159-29

LDK 4493/00
Remote Control Unit (rear)

- OUTPUTS:
  R, G, B (optional: Y, P_R, P_B component video)
  Composite
  Mon / Test
  Audio
  Waveform Monitor (WFM)

- INPUTS:
  Genlock (loop through)
  Audio
  Aux Video (loop through)

- CONNECTIONS for:
  Local Control Panel (LCP)
  Intercom (4-wire, 2-wire)
  Tally

LDK 8115/30 (not shown)
Rack Mounting Frame

- 19" frame for two LDK 4493/00 Remote Control Units (RCUs)

Remote Control Unit

LOCAL CONTROL APPLICATION
REMOTE CONTROL OVERVIEW



870159-52

LDK 4619/00
Local Control Panel (LCP)

- CONTROLS for:
  - Iris
  - Master Black
  - Gain and black levels for red and blue
  - Auto / Manual iris
  - Auto iris override
- Including connection cable (1.5 m)

Remote Control Overview



ENG-Adaptor



or

LDK 8191/05
Extension cable (5.0 m)



Local Control Panel (LCP)
incl. 1.5 m connection cable



Betacam-Adaptor



EFP-Adaptor



LDK 8190/xx
Multicore camera cable (max. 300 m)



Remote Control Unit (RCU)

Cables and Connectors

MULTICORE CABLES AND CONNECTORS
REMOTE CONTROL EXTENSION CABLE
VTR CABLES

Multicore camera cable, diam. 11 mm
19 core, with 19 pin connector
for camera / Remote Control Unit (RCU) connection

LDK 8190/01 length **10 m**
LDK 8190/05 length **50 m**
LDK 8190/10 length **100 m**

Note
Max. distance between Camera and RCU is **300 m**



870203-20-03 A

Remote Control extension cable
(not shown)
for Local Control Panel (LCP)

LDK 8191/05 length **5 m**



870159-51

19 pin Connectors for 19 core cables in LDK 90 system



870203-20-02

Panel Plugs

LDK 8205/10 (male)
LDK 8205/11 (female)

Panel Plugs with clamp
(not shown)

LDK 8205/20 (male)
LDK 8205/21 (female)

Cable Plugs
(not shown)

LDK 8205/00 (male)
LDK 8205/01 (female)

VTR cable
for camera / VTR connection

26 pin / 26 pin connectors
(for Betacam- and MII- recorders)

LDL 2110/02 length **2 m**
LDL 2110/10 length **10 m**

26 pin / 14 pin connectors
(for BVU-recorders)

LDL 2111/02 length **2 m**
LDL 2111/10 length **10 m**

26 pin / 19 pin connectors
(for BCN 21-recorders)

LDL 2112/02 length **2 m**
LDL 2112/10 length **10 m**

Camera Accessories

TRANSPORT CASE
CARRYING BAG
RAIN COVER



870159-63

LDK 6995/90 Transport case
- For any camera adaptor / recorder combination and accessories

LDK 6999/00 Rain cover
(not shown)
- For any camera adaptor / recorder combination

Service and Spare Units

SPARE BOARDS
SERVICE EXTENDERS
COMPONENT KIT

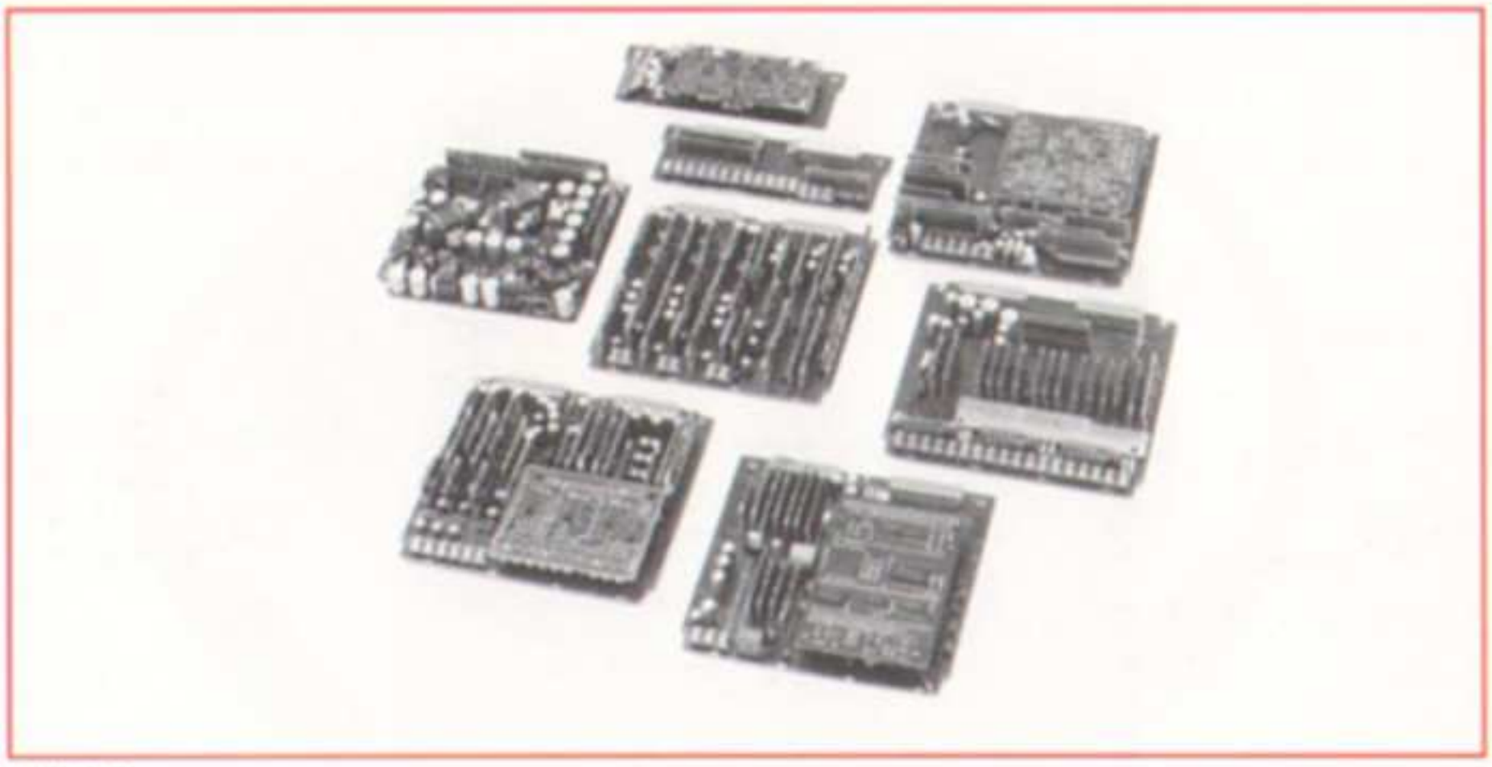
LDK 90 System Spare Boards

LDK 8680/xx *
- For LDK 90 with ENG adaptor

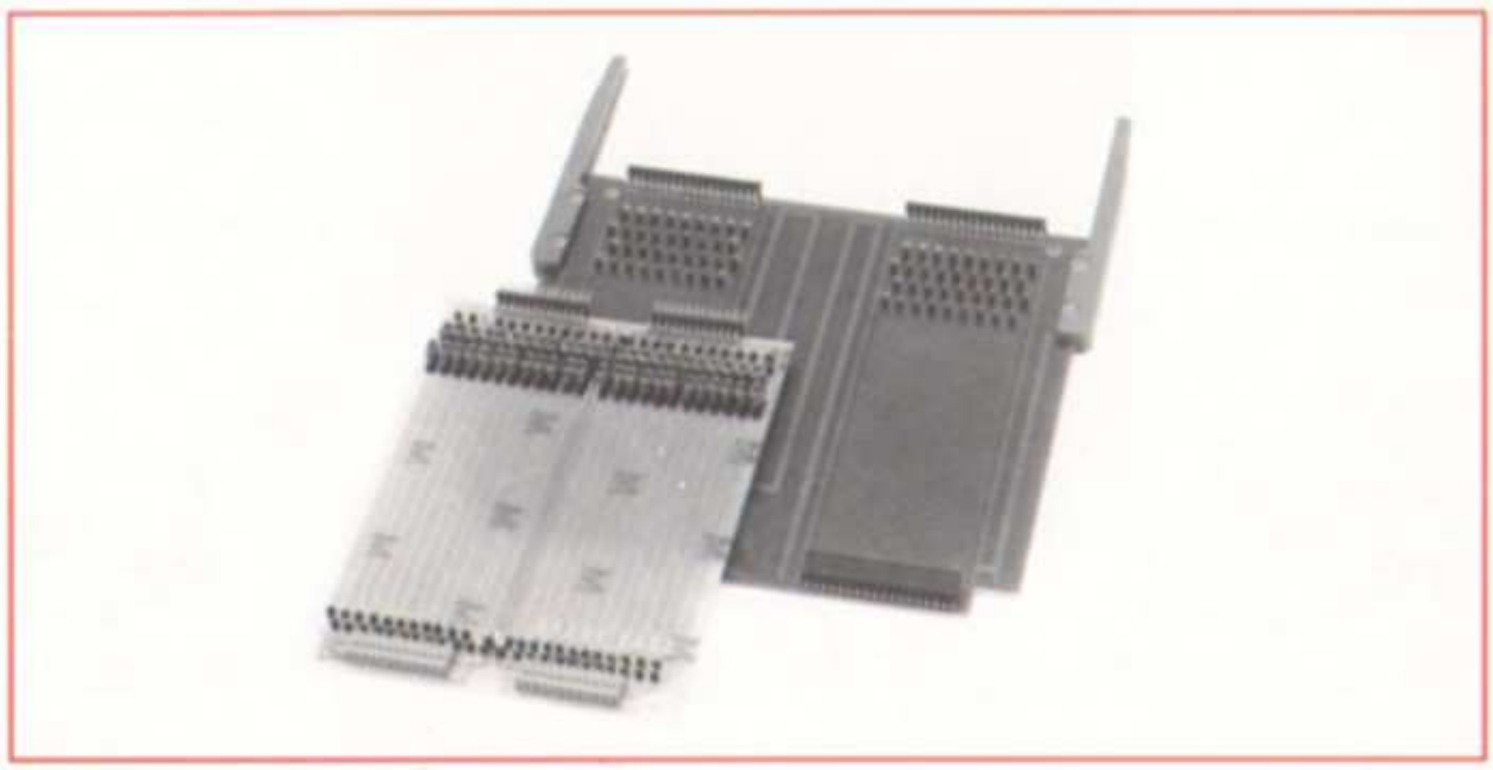
LDK 8681/00
- For Remote Control Unit (RCU) and EFP adaptor

LDK 8682/xx *
- For Betacam adaptor

*** Version /xx**
- **/00** with **PAL** encoder & genlock
- **/50** with **NTSC** encoder & genlock
- **/60** with **PAL-M** encoder & genlock
- **/70** with **SECAM** encoder & genlock



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870159-65



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LDK 90 Service Extenders

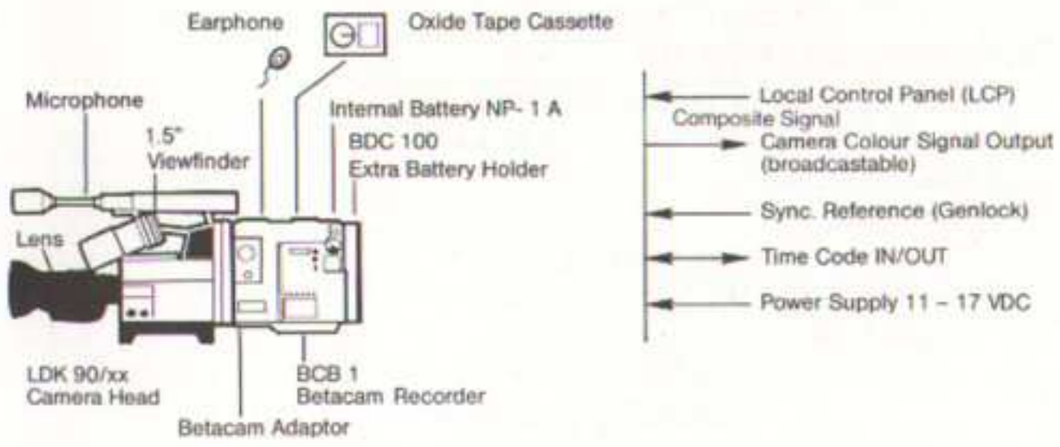
LDK 4830/10
Service Extenders Camera Set

LDK 90 Spare Component Kit

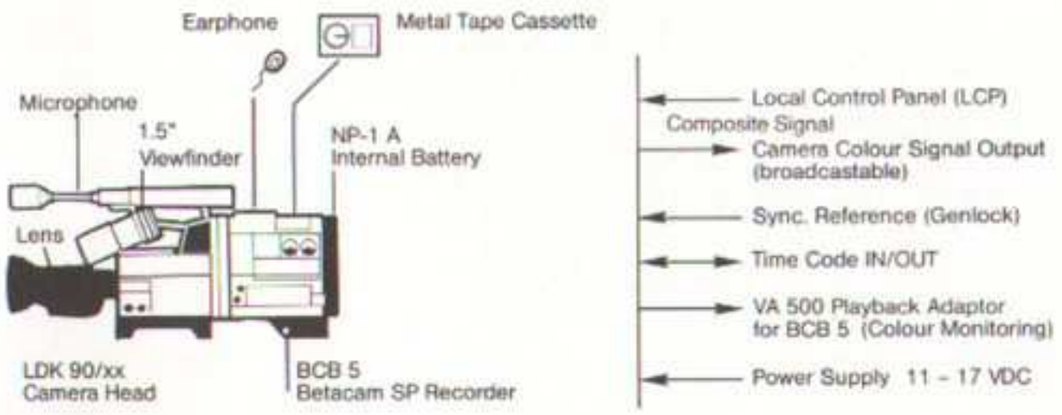
LDK 8604/90
- For LDK 90 System

LDK 90 MODES OF OPERATION (EXAMPLES)

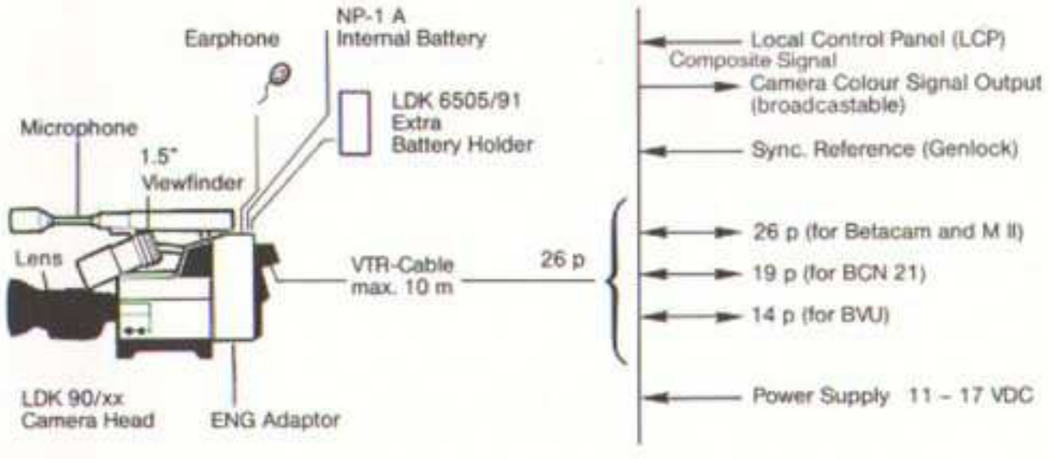
1. ENG-Betacam (BCB 1) Recorder Mode



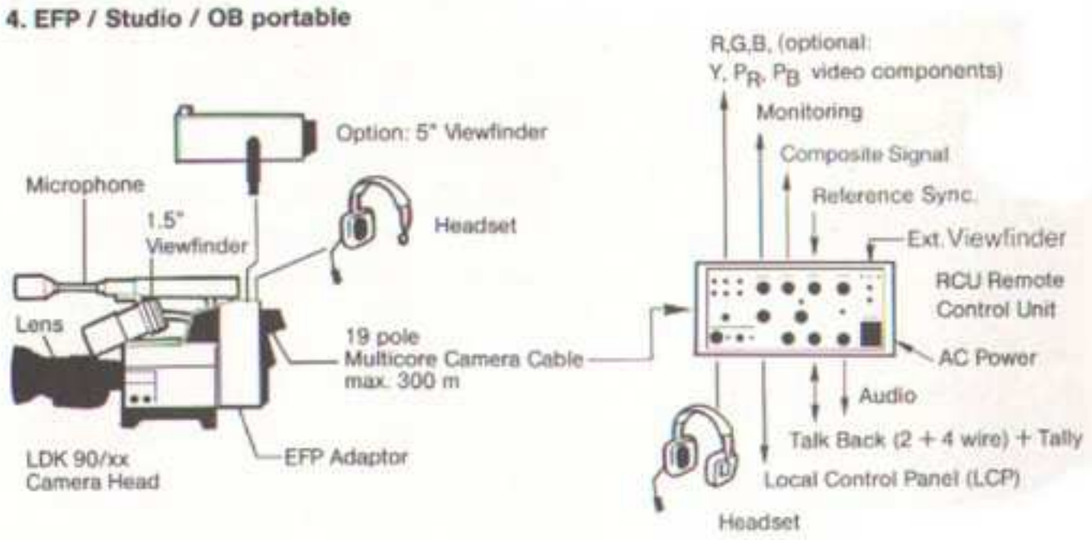
2. ENG-Betacam SP (BCB 5) Recorder Mode



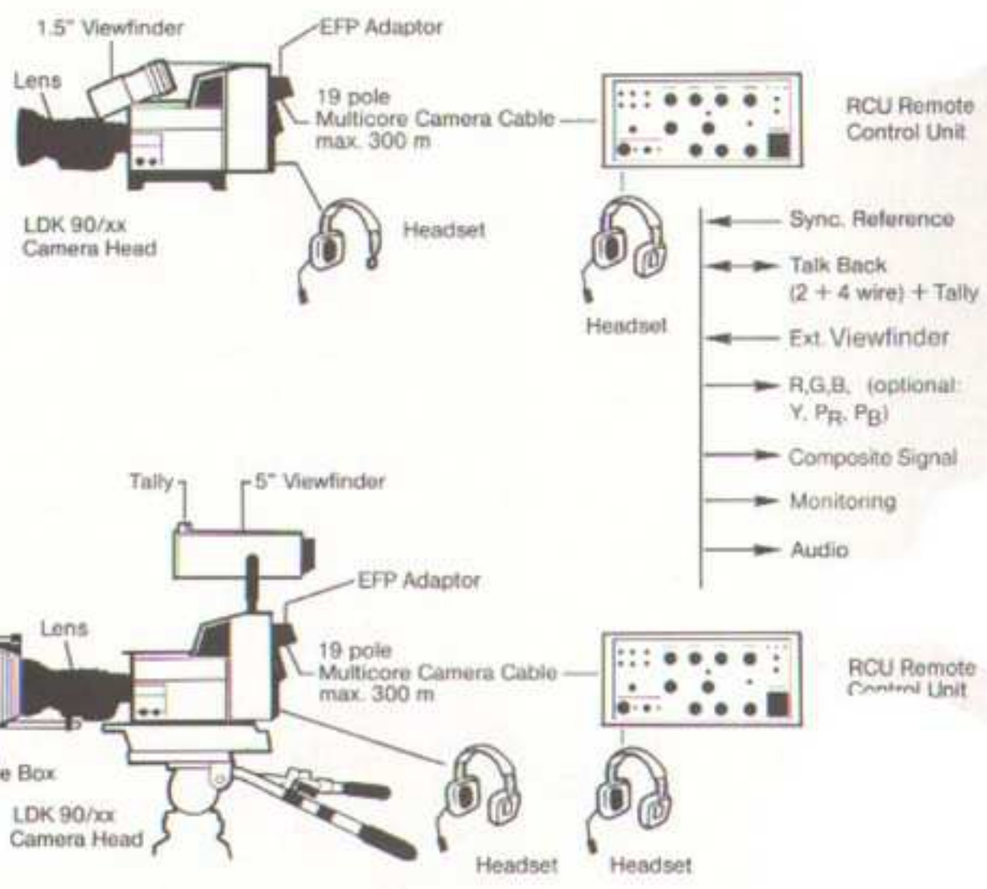
3. ENG with separate VTR



4. EFP / Studio / OB portable



5. EFP / Studio / OB Multicamera configuration



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BAV 1 VN	Composite- / Component adaptor NTSC	06
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BAV 5 N	Component- / Composite adaptor NTSC	06
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BBT 5 CL	Betacam cleaning tape	06
BBT 5M/10M	Betacam metal tape cassette	06
BBT 20M/30M	Betacam metal tape cassette	06
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BCB 1 PS	Standard Betacam recorder PAL / SECAM	06
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BCB 10 S	Betacam Studio Player SECAM	07
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