

LDK 100IT(W) 12-BIT DIGITAL PRODUCTION CAMERA



The Digital 'Companion'

Have you ever encountered a camera that meets everyone's needs while still making good business sense? Now you have! The LDK 100 Series cameras are designed with all of your requirements in mind, regardless of whether you are a producer, camera operator or engineer, making it the ultimate 'companion' for everyone in the digital broadcast world.

Video production, whether in the studio or on location, is teamwork that produces favorable results only if everybody is given the chance to fully exploit his or her skills. No surprise then that we sat together with a large group of respected people in the video industry to find out how to serve everybody with a companion that doesn't limit them in getting the best out of themselves, or, even better, to push their limits.

LDK 100 Series Digital Cameras

The result is a series of camera heads and adapters that allow you to create the ideal tool to do

your job. Feature wise, technology wise, and budget wise, and always with a host of benefits that makes working with the LDK 100 Series cameras a pleasure. All LDK 100 Series Digital Cameras are equipped with the unsurpassed digital technology common to high-end broadcast cameras.

They all feature 12-bit A-to-D conversion and dynamically managed 22-bit digital signal processing. This fully digital path ensures that whatever you shoot is reproduced naturally by applying digital knee, gamma, matrixing and contour, including Dual Skin Contour Circuits with Automatic Skin Tone Selection. On top of this it allows vision engineers to manipulate the picture to suit the ambience of a program or to introduce special effects like sepia or film-like images by using optional Smart-Touch™ software*.

You will experience levels of picture performance and accuracy that are not attainable with 10-bit technology.

- **High-end technology with 12-bit A-to-D and 22-bit DSP**
- **Advanced ergonomics and lightweight yet durable design**
- **Future proof and flexible design**
- **Extensive range of adapters and accessories**
- **Cost-effective yet out-performing IT(W) CCD sensors**
- **Quick and easy set-up of both operational and advanced technical settings**

DVCPRO



Ergonomics that make handheld shooting fun

How often did you or your operators feel exhausted after only a few hours of carrying a portable camera? Pick-up an LDK 100 IT(W) and feel the difference. Not only does it's light weight design make it a favorite, the convenient shape, easily adjustable shoulder pad and optional unique integrated zoom grip also make it possible for operators to fully focus their energy on creative shooting.

A full-fledged member of the LDK Series Camera Family

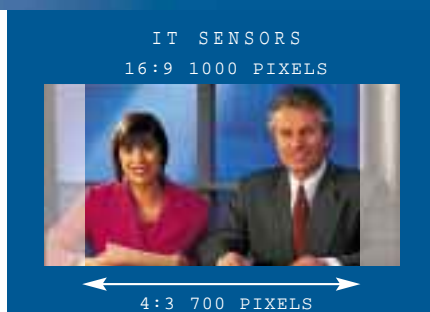
LDK 100 IT(W) users enjoy the benefit of universally applicable accessories that are available for the

entire LDK Series. Whether it is the Camera control system, the range of viewfinders or the SuperXPander large lens adapter, your LDK 100IT(W) is a passport to a world of flexible solutions that meet the requirements of every assignment. Customers with LDK Series cameras already in their studios or mobile facilities enjoy the seamless integration of the LDK 100IT(W) in their existing infrastructure while making optimum use of previous investments. Others will find that the LDK 100IT(W) optimizes the financial effectiveness of their operation by mixing and matching the different 'building blocks' of the LDK 100 Series, including DVCPRO and DVCPRO50 recorders and Betacam SPT™ adapters.

The LDK 100IT(W): your ticket to the future

The modular design of the LDK 100 Series makes your investment future proof over an extended period of time. As your needs change, or technology advances and new recording formats are introduced, you may swiftly adopt your outfit to the 'flavor of the day'. This feature alone is surely invaluable, especially in a time of rapid and unexpected change.





Suited for your applications

Equipped with Ultra Low Smear IT(W) CCDs, the LDK 100IT(W) will feel just perfect in a variety of situations and program styles, from talk shows and regional stations, to news studios and parliamentary studio's. Acquisition in wide screen is performed by the industry standard 'side-panel method' thus getting the maximum out of your camera system.

Quick and easy setting-up of operational and technical parameters

The LDK 100IT(W) features a host of intelligent automatics too, including continuous auto-black, which gives you perfect black levels and shading without the need for a black balancing control. A specially adjusted

matrix is also provided to help ensure excellent color reproduction when working under fluorescent lights. In addition, the LDK 100IT(W) has 'Intel Inside'. This powerful processor manages the automatics, and video DSPs, as well as the built-in self-diagnostics and self-calibration circuits. As camera software advances and new features become available, software upgrades can easily be downloaded from a PC via the standard serial RS-232 link, even by means of E-mail!

Your personal camera in less than a second

The LDK 100IT(W) makes use of a credit card style Smart Card which stores up to 4 Scene Files and two -so-called - Operator Files. The Operator File contains all operational settings of the camera, such as, viewfinder information, tally settings and zebra, allowing an individual operator to turn any LDK 100IT(W) into his or her preferred camera. Join the family of LDK 100 Series users and experience these benefits and more. Whether you're an operator, engineer, producer or financial controller, you'll see that the LDK 100IT(W) will be the digital 'companion' for everyone in your facility.

TH

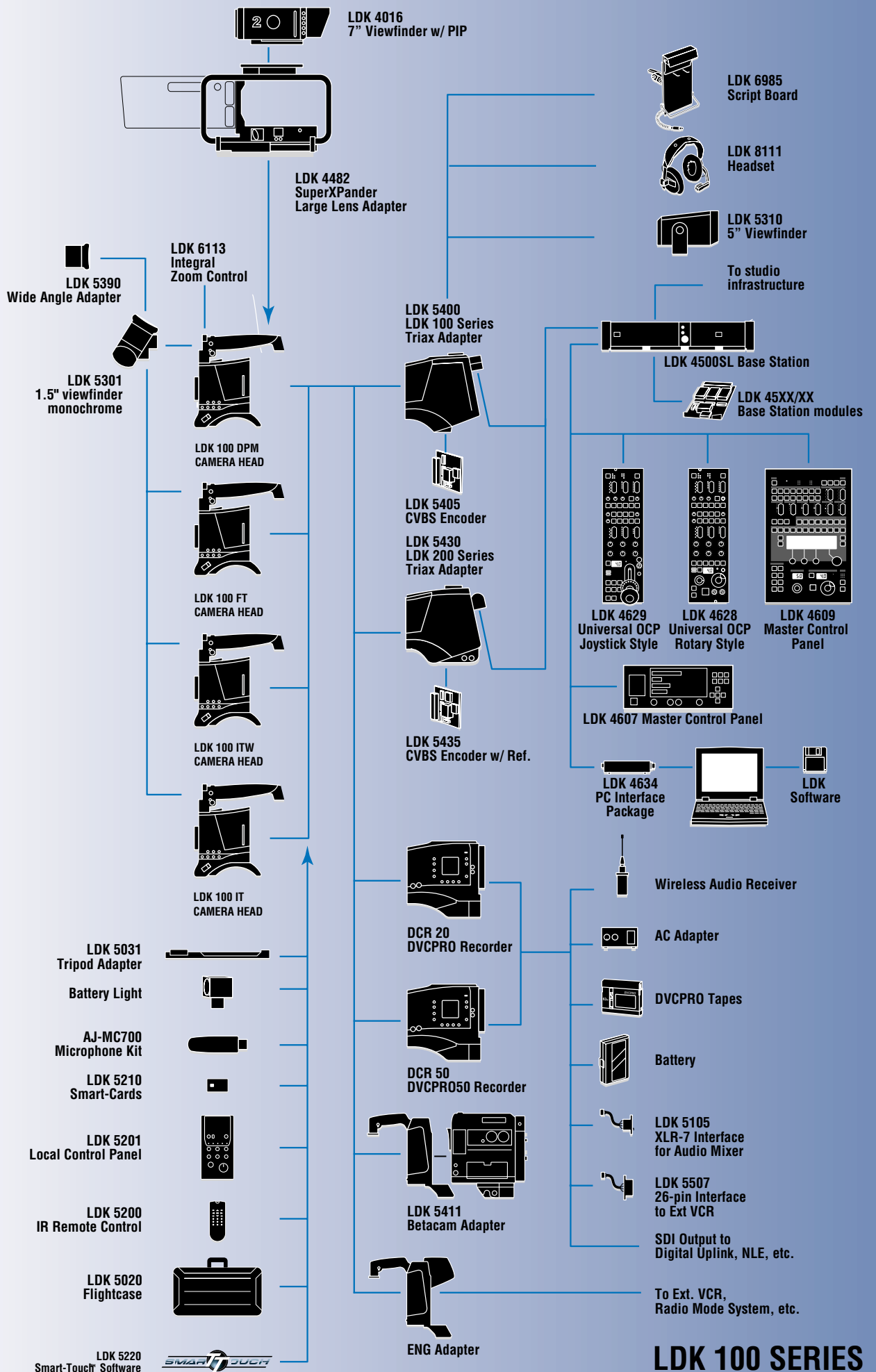


LDK 4500SL Series SlimLine SDTV Camera Base Station

The LDK 4500SL SlimLine Camera Base Station is the perfect interface between the LDK 200 Series cameras and the rest of your system. A heavy-duty base station with state-of-the-art technology has never been available in such a small cabinet – yet it still provides the quality and functionality expected from a broadcast product. The very high level of modularity of this base station guarantees ideal matching with any type of application. Whether you will use it in a studio or for mobile field production. A dedicated brochure of the LDK 4500SL series basestation is available from your sales representation.

Join the family of LDK 100 Series users and experience all these benefits and more. Whether you're an operator, engineer, producer or financial controller, you'll agree that LDK 100IT(W) has made top-class 'tools' affordable.





LDK 100 SERIES CAMERA SYSTEM

TECHNICAL SPECIFICATIONS

GENERAL

Power requirements	Triax powered or DC 12V
Power consumption	20 W (incl. optional viewfinder and triax adaptor)
Operating temperature	-20°C to 45°C (-4°F to 113°F)
Storage temperature	-20°C to 60°C (-4°F to 140°F)
Weight	4.9 kg (including viewfinder and triax adaptor)
Triax cable length	RGB transmission max. 3000 m with 14mm cable (9900ft with 0,55" cable)
Digital quantization	12 bits A/D
Digital signal	processing 18 MHz and 36 MHz, >22 bits accuracy
Exposure control	down to 1/2000 sec
Clean scanning	NTSC: 60.1 - 151.0 Hz PAL: 50.1 - 103.0 Hz
Optical system	F1.4 with quartz filter
Optical filters	clear, 1/4 ND, 1/16 ND, 1/64 ND
Vertical Resolution	NTSC: 400 TV lines (450 TV lines in EVR) PAL: 480 TV lines (530 TV lines in EVR) (EVR = Extended Vertical Resolution mode)
Registration	<0.05% (all zones, without lens)
Dynamic Range	500% (Typical)

CAMERA SECTION LDK 100 IT

Pick-up device	3 x 2/3" Interline Transfer CCD, 4:3
Aspect Ratio	4:3
Picture elements	NTSC: 813 (H) x 503 (V) PAL: 813 (H) x 585 (V)
Smear	-120 dB (typical)
Sensitivity	2000 lux at F11 (typical)
Minimum illumination	approx. 0.25 lux (F1.4 lens, +42 dB gain)
Modulation depth	50 % typical at 5 MHz (equals Hor. Resolution of 700 TV lines)
S/N ratio	NTSC: 63 dB (typical) PAL: 61 dB (typical)
Gain	-6 dB to +42 dB in 3 dB steps (user defined presets)

CAMERA SECTION LDK 110 ITW

Pick-up device	3 x 2/3" Interline Transfer CCD, switchable 16:9 and 4:3
Aspect Ratio	NTSC: 1038 (H) x 504 (V)
Picture elements	PAL: 1038 (H) x 594 (V)
Smear	-125 dB (typical)
Sensitivity	2000 lux at F11 (typical) in both 16:9 and 4:3 mode

Minimum illumination	approx. 0.5 lux (F1.4 lens, +36 dB gain)
Modulation depth	16:9 mode 70 % typical at 5 MHz (equals Hor. Resolution of 700 TV lines in both 4:3 and 16:9) 4:3 mode 50 % typical at 5 MHz (equals Hor. Resolution of 700 TV lines in both 4:3 and 16:9)
S/N ratio	NTSC: > typical 63 dB in both 16:9 and 4:3 mode PAL: > typical 61 dB in both 16:9 and 4:3 mode
Gain	-6 dB to +36 dB in 3 dB steps (user defined presets) 5" viewfinder (optional)

1.5" VIEWFINDER (optional)

CRT	1.5" monochrome
Resolution	>600 TV lines (center)
Features	Controls for Brightness, Contrast, Zebra and Dioptry indicators for Tally, Gain, Col. Yemp., Battery, Tape End and Filters.

INPUTS with LDK 5400 Triax adapter

Front mic	1 x XLR 3, balanced, +48 V
Mic	1 x XLR 3, balanced, +48 V selectable (1 Ch. to Base Station)
DC-12 V	XLR 4
Control input	9 pin, RS-232 compatible

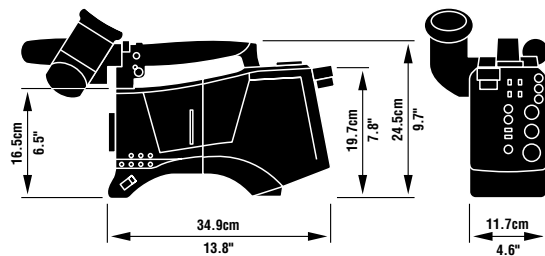
OUTPUTS with LDK 5400 Triax adapter

Triax Option	Fischer/ARD/Lemo/Trilock
Video (CVBS)	BNC (1.0 Vp-p, 75 Ohm), using optional encoder LDK 5405
Viewfinder	20 pin
Monitor (Y)	BNC (1.0 Vp-p, 75 Ohm), viewfinder signal or ext. video (from base station)
Script light	12 V, 0.25 A, 3 pin Fisher
Lens	12 pin
Head set	option XLR 5, Tuchel (intercom channels ENG/PROD/PROGR)

SUPPLIED ACCESSORIES

1.5" viewfinder (optional)
User manual
Owner Card (1x)
User Card (2x)
Rain cover
Smart Touch™ (optional)

**For more information on Accessories, Smart Touch™ and Triax Basestation see separate brochures: Camera and Camcorder Accessories, Smart Touch™ and LDK 4500SL SlimLine Basestation.*



For more information contact:

Thomson multimedia Broadcast Solutions

EUROPE

Kapittelweg 10,
4827 HG Breda,
The Netherlands
Tel: +31 76 572 11 00
Fax: +31 76 572 11 08

NORTH AMERICA

2255 N. Ontario Street
Suite 150
Burbank, CA 91504
Tel: +1 818 729 7700
Fax: +1 818 729 7710
Toll-free: +1 800 962 4287

FAR EAST

8 Jurong Town Hill Road
30-01/06 The JTC Summit
Singapore 609434
Tel: +65 379 1333
Fax: +65 379 1422

SOUTH AMERICA

Av. Queiroz Filho 87
05319-000 São Paulo SP
Brazil
Tel: +55 11 3024 3440
Fax: +55 11 3024 3441

AUSTRALIA

745 Springvale Road
Mulgrave, Victoria 3170
Australia
Tel: +61 3 9271 3666
Fax: +61 3 9271 3577

Or your local Thomson office

Website:
www.thomsonbroadcast.com

Information subject to change without notice
Printed in the Netherlands
3122 787 33400