

Kodak

Ektapro Slide Projectors

**With Extra Bright
Lamp Module
30% more light**



Innovative presentations: the family of KODAK EKTAPRO Slide Projectors sets new standards for professional presentation. Microprocessor-control, modular design and integration into the world of multi media.

KODAK EKTAPRO Slide Projectors – no-compromise performance

The new KODAK EKTAPRO Slide Projectors are remarkable for their functionality and suitability for all fields of professional presentation.

KODAK EKTAPRO 320 Slide Projector – Your entry into the class of Ektapro Projectors. As all other projectors this basic model offers the Extra Bright Lamp Module and the Random Access feature. With the new lamp module the lightoutput is approx. 30% higher than compared to former models. And with the Random Access feature any slide can be selected individually via the IR remote control.

KODAK EKTAPRO 4020 and 5020 Slide Projector – for professional presenting and your passport to multivision and multimedia. The P-Bus In Interface (RS 232) allows control of the projector via computer. If a lamp should burn out the automatic lamp changer switches in a flash to the second lamp. The EKTAPRO 5020 Slide Projector also has a built-in timer for continuous projections and an autofocus with override function.

KODAK EKTAPRO 7020 – the convenient projector for professional multivision, multimedia and presentation.

The built-in dissolver makes two projector dissolve presentations via remote control possible – without external control units. Also in single projector operations it is possible to fade slides out and in with the Soft Slide Change function. The P-Bus Interface offers the possibility of controlling up to 16 projectors via computer or the connecting of external dissolve units. In the AV Slot dissolve cards can be inserted for the convenient multivision.

KODAK EKTAPRO 9020 – The top of the range model for all AV professional requirements. It offers all technical highlights in one single unit. With the new integrated dissolver you can realise dissolve times of 0,1 to 9,9 seconds as well as several other effects and functions via IR-remote control. Soft Slide Change, parallel operation, autotimer, autofocus with override, automatic zero positioning when slide gate is empty and zero positioning key is set, are further highlights.

Ektapro Slide Projectors



**KODAK EKTAPRO
MASTER/SLAVE Dissolve**



**KODAK Extra Bright
Lamp Module**



Technical data at a glance

KODAK EKTAPRO Projector	320	4020	5020	7020	9020
Random access via Infrared Remote Controls	■	■	■	■	■
Removable Extra Bright twin lamp module with automatic lamp change	-	■	■	■	■
Removable Extra Bright Single Lamp Module	■	-	-	-	-
Standby function	-	■	■	■	■
Slide format 24 x 36/40 x 40 (with special condenser)	■	■	■	■	■
Built-in dissolver for a two projector dissolve	-	-	-	■	■
Soft Slide Change (with single projector)	-	-	-	■	■
Autofocus (with override function)	-	-	■	-	■
Built-in Timer (11 time settings 1 - 60 sec)	-	-	■	-	■
Autotimer (1 to 60 seconds) for self running shows and for parallel operation can be set via IR-remote control	-	-	■	■	■
Remote security mode to block certain functions of the IR-remote during a presentation	-	■	■	■	■
Parallel operation, independant control of the projectors and individual lamp control when two projectors are in operation	-	-	-	■	■
High-Light feature provides up to 20% more light on screen	-	-	-	■	■
Microprocessor control for all functions	■	■	■	■	■
Dual-plane pressure system slide gate	■	■	■	■	■
Stepper motor drive for tray and slide transport	■	■	■	■	■
Round trays for 80 slides	■	■	■	■	■
Round trays for 140 slides	-	■	■	■	■
Compatible with spiral and gear rack mount lenses	■	■	■	■	■
No slide – no light feature	-	■	■	■	■
Economy lamp setting	-	■	■	■	■
Power LED	-	■	■	■	■
Slide change time	0,88 s	0,88 s	0,88 s	0,88 s	0,88 s
Lamp in use control	-	■	■	■	■
Line-up	-	■	■	■	■
System check and tray zeroing on switch on	■	■	■	■	■
8-pin socket for remote control and accessory	■	■	■	■	■
Lamp failure indicators (2 red LED's)	-	■	■	■	■
Zero positioning indicator	-	■	■	■	■
AV-Slot for accessory modules	-	-	-	■	■
P-Bus In for external control	-	■	■	■	■
P-Bus Out with Address Switch to daisy chain up to 16 projectors	-	-	-	■	■
Automatic Zero Reset after last slide	-	-	-	-	■
Projection lamps	EXR 82 V/35 h/300 W FHS 82 V/70 h/300 W EXY 82 V/200 h/250 W				
Height adjustment	> 10°				
Mains voltage: E320: 240 V; E4020, 5020, 7020, 9020:120, 220, 230, 240 V					
Frequency	50/60 Hz				
Power consumption	approx. 380 W				
Dimensions (L x W x H)	340 x 336 x 140 mm				
Weight	approx. 9000 g				
Made in Germany					

For more information on this or any other KODAK PRESENTATION TECHNOLOGIES Product, check the Internet at www.kodak.com/go/projectors/ or call

- in UK-01908-615515
- other countries - call in Germany-0049-7161-3000-540

Dealer Address

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Professional Accessories



Only with the proper accessories will your slide show look like a professional presentation. KODAK EKTAPRO accessories are designed to be practical and provide optimum operation.

Remote Control

The highly practical KODAK EKTAPRO Remote Control Systems allow you to choose between infrared and cable control.

The KODAK EKTAPRO IR Remote System RA:

consists of a transmitter and receiver. It controls the standby, transport, focusing and individual slide selection (RA) functions. When controlling models 7020/9020 you can also carry out additional commands such as entering dissolve times, reset etc. via the keypad. Switching of the IR channel allows the use of two independent control systems for two projectors in one room. The receiver is attached to the remote control socket of the projector and is supplied with power by the projector. Maximum range is at least 30 m.

CAT. No. 712 1072

The KODAK EKTAPRO IR Remote System RA/LP:

has the same functions as the Remote System RA, but in addition has a built-in Laser Pointer for superior presentations. By using the red laser dot you can give special emphasis to any part of the image on the screen.

CAT. No. 712 1064

The KODAK EKTAPRO IR Remote Receiver RA:

is an extra receiver for each additional projector which is to be operated in parallel with the IR remote control.

CAT No. 712 8606

KODAK EKTAPRO Cable Remote (4m): is the classic, economy-priced projector control with a 4 m cable for standby, transport, and focusing functions. No operating costs. Batteries not required, as power supply is via the projector.

CAT No. 712 1080

KODAK EKTAPRO Remote Extension Cable (8m):

can be used with EKTAPRO Cable Remote and the IR remote control systems. Up to three extension cables can be used with the remote extension cable (a distance of 28 metres). When connected to an IR receiver, projector and receiver can be separated from each other by up to 8 metres.

CAT No. 712 5925



The Illumination System

KODAK EKTAPRO Extra Bright Lamp Modules are very easy to use and are a guarantee of extra safety during your important presentations. A major advantage is that the lamp, mirror and condenser are already aligned for optimum operation with one another. The lamp modules offer 30% more light output compared to former standard modules.

KODAK EKTAPRO Single Extra Bright Lamp Module with 82V/300W/35h lamp.

CAT. No. 718 4351

The KODAK EKTAPRO Extra Bright Two-Lamp Module

with two 82V/300W/35h lamps. An automatic lamp changeover feature is integrated into the module. It can be used in KODAK EKTAPRO Slide Projector models 4010, 4020, 5000, 5020, 7000, 7010, 7020, 9000, 9010 and 9020. If the projector lamp fails, there is automatic switchover to a second lamp via the appropriate mirror system. The lamps stay in their

positions, and optimum adjustment is therefore guaranteed even after the lamp changeover. The „lamp changeover“ is completed in less than 0.3 s.

CAT. No. 718 4369

KODAK EKTAPRO Heatfilters

Only for use with Extra Bright Lamp Module! A heatfilter should be inserted if for any reasons the slide temperature and/or lightoutput must be brought down (e.g. to match same values as with former models).

KODAK EKTAPRO Standard Heatfilter

CAT. No. 717 7140

KODAK EKTAPRO Heatfilter +10

CAT. No. 717 7157

KODAK EKTAPRO 4x4 Condenser Kit

A special condenser for the projection of 40x40 mm slides and replaces the already built-in standard condenser (not for use with zoom lenses and KODAK EKTAPRO SELECT 36mm FF Lens!).

CAT. No. 714 4967



KODAK EKTAPRO Projection Lamps
For your EKTAPRO Slide Projector you can choose between three different projection lamps to meet your projection needs:

EXR 82V/300W/35h	CAT. No. 145 2259
FHS 82V/300W/70h	CAT. No. 147 7678
EXY 82V/250W/200h	CAT. No. 145 2143

KODAK EKTAPRO Twin Socket Adapter

This twin socket adaptor allows you to connect an extra projector in parallel and at the same time connect to the EKTAPRO Cable Remote.

CAT. No. 712 5909

KODAK EKTAPRO Twin Socket Connecting Cable (2m)

For use with KODAK EKTAPRO Twin Socket! This cable links two KODAK EKTAPRO Projectors together for parallel projection.

CAT. No. 712 5917

KODAK Slide Projection FF Lenses

For colour fidelity and a precision presentation, choose KODAK Slide Projection FF Lenses: standard lenses of the highest quality with zoom or functional fixed focus. Or you can opt for precision lenses from the KODAK EKTAPRO SELECT range which will meet the most exacting requirements. In a metal housing, each lens has individual focal length information

accurate to 0.1 mm. For safe carrying and practical storage they are delivered in plastic system boxes. In either case the highly accurate gear rack in the lens barrel provides the additional advantage of greater precision. Technical data on KODAK Projection Lenses can be found in a separate data sheet.

KODAK EKTAPRO Lens Support

Gives maximum hold to heavy lenses (especially zoom lenses). It is ideal in fixed installations where lens positions should be kept. Supports smooth operation of focus/autofocus when heavy lenses are used.

CAT. No. 715 1335

KODAK EKTAPRO Dissolve Cable (1 m)

You can connect a second projector with a P-Bus-in interface to an EKTAPRO 7020 or 9020 Projector for dissolving. Commands are given by the IR remote control. (No other equipment necessary!)

CAT. No. 715 3992

Ektapro Slide Projectors



KODAK EKTAPRO Carrying Case

Sturdy hard case for projector, lens, slide tray, remote control and power cable, black color. The less weight case has separate bag in the top and is stackable.

CAT. No. 718 1993



KODAK EKTAPRO Slide Trays

For KODAK EKTAPRO Slide Projectors the proven round trays are now available in two capacities.

KODAK EKTAPRO 80 Slide Tray:
with transparent cover for 80 slides.

CAT. No. 712 8580

KODAK CAROUSEL TRANSVUE 140 Slide Tray:
for 140 slides in cardboard mounts (max. 1.6 mm).
(Not for use with KODAK EKTAPRO 320 Slide Projector)

CAT. No. 899 5193

Dealer Address:

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Slide Projection Lenses



Professional Sharpness – introducing a complete new series of projector lenses. Standard lenses of highest quality, in zoom or popular, fixed focal length configurations, or precision lenses of the EKTAPRO SELECT family for your most demanding needs. Both versions offer enhanced convenience due to rack focus.

Enhanced Sharpness

KODAK Slide Projection Lenses are designed for the professional. A choice of specifications to meet all presentation needs and budgets.

KODAK Slide Projection FF Lenses

The cost effective alternative for professional slide presentation: Three fixed focal length lenses are available. They offer single coating with gear rack focussing. Three different zoom lenses provide enhanced flexibility for presentations on the move.

KODAK EKTAPRO SELECT Projection FF Lenses

Brilliant optical quality for the most demanding requirements: multi-coating, metal housing, high contrast and precision manufacture are the characteristics of this series. Each lens has individual focal length information accurate to 0.1 mm.

This means the tolerances on the 93 mm lens are a mere ± 0.5 mm. All KODAK EKTAPRO SELECT FF Lenses are supplied in plastic system boxes for safe transport and practical storage.

Specifications

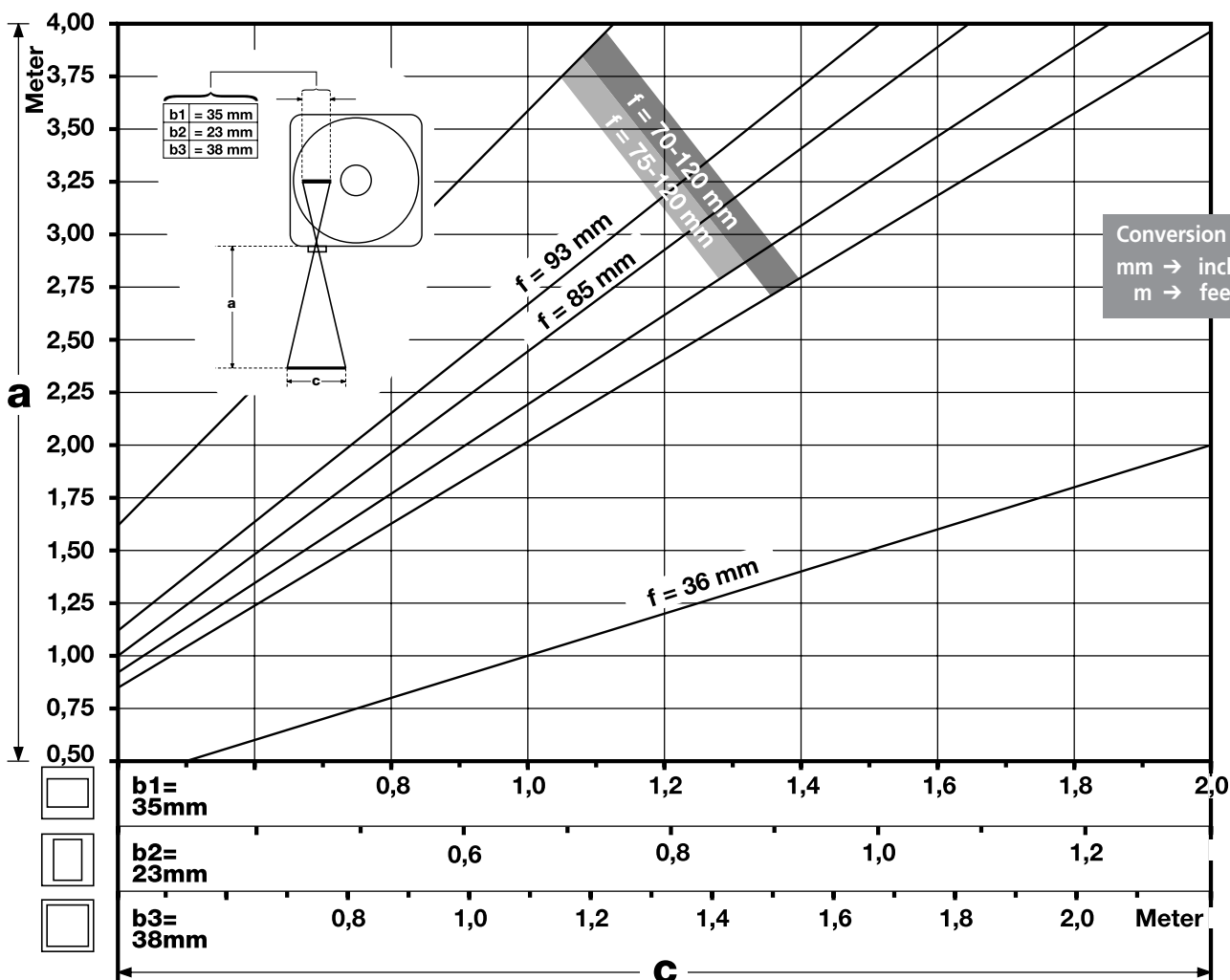
KODAK Slide Projection FF Lenses

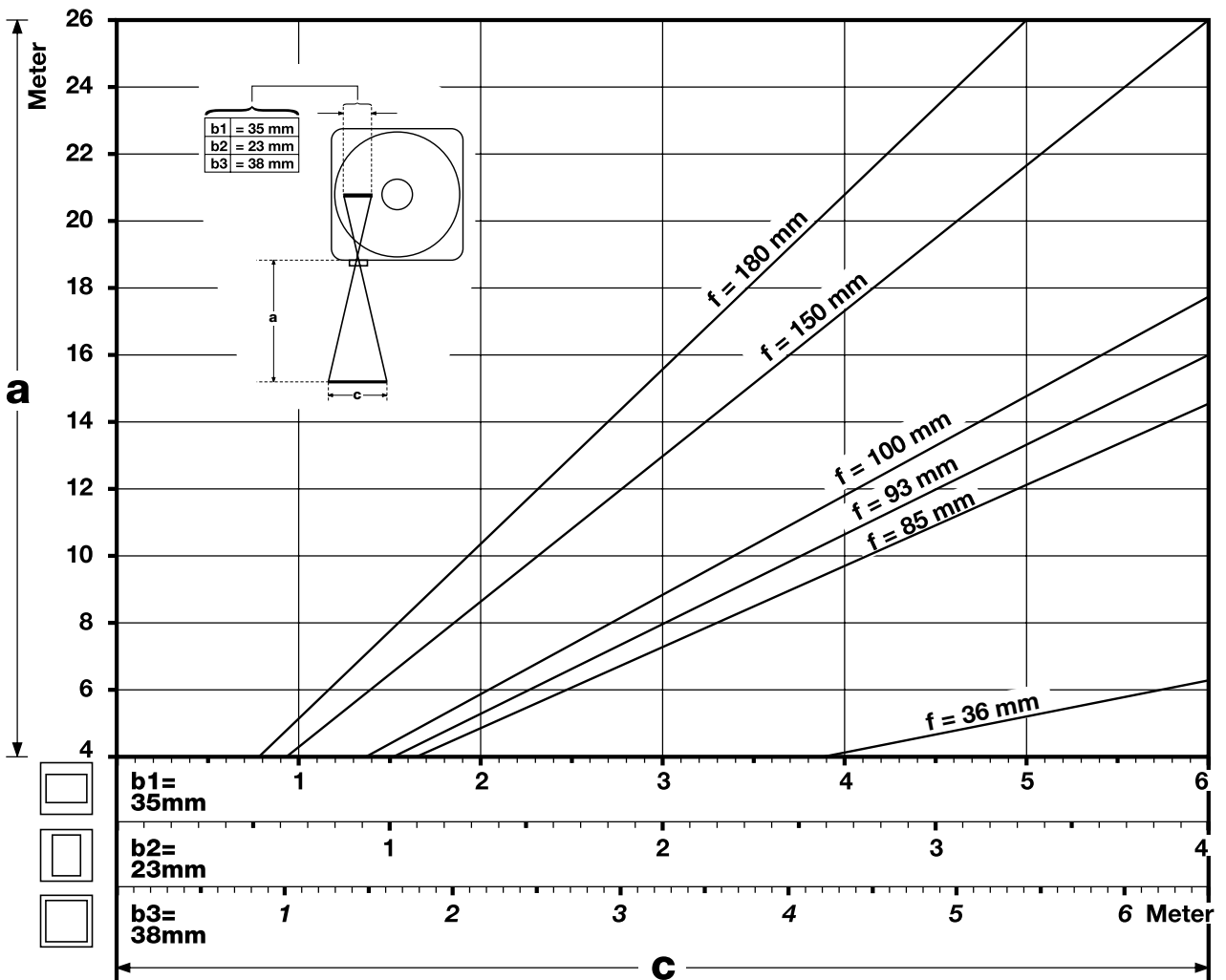
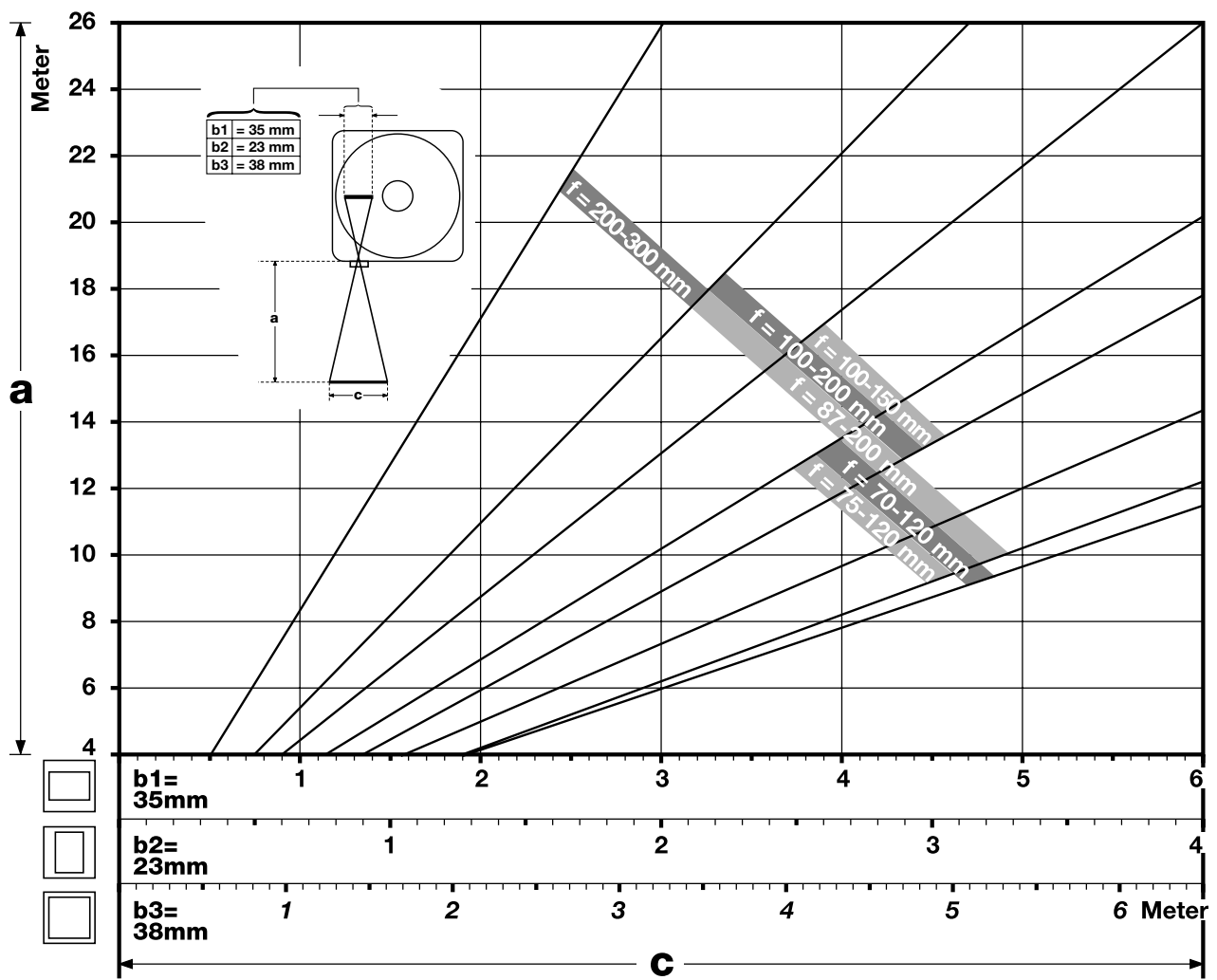
KODAK EKTAPRO SELECT FF Projection Lenses

KODAK Slide Projection FF Lenses	75-120mm Zoom	100-150mm Zoom	100-200mm Zoom	85 mm*	180 mm*
Coating	C	C	C	C	C
Length	117 mm	153 mm	185 mm	125 mm	190 mm
Fronttube Ø	69 mm	65 mm	73 mm	73 mm	63 mm
Weight	210 g	310 g	450 g	108 g	205 g
Aperture	f/3.5	f/3.5	f/3.5	f/2.8	f/3.5
Elements	7	7	9	3	3
Field angle	32° - 20°	24° - 16°	24° - 12°	27°	13°
CAT No	847 0346	143 3432	712 5743	712 5503	712 5529

KODAK EKTAPRO SELECT FF Projection Lenses	75-120mm Zoom	87-200 mm Zoom	200-300mm Zoom	36 mm	93 mm*	150 mm*
Coating	MC	MC	MC	MC	MC	MC
Length	150 mm	177 mm	226 mm	125 mm	125 mm	146 mm
Fronttube Ø	61 mm	70 mm	87,5 mm	78 mm	78 mm	73 mm
Weight	580 g	700 g	910 g	457 g	320 g	605 g
Aperture	f/2.8	f/3.5	f/3.0	f/2.8	f/2.5	f/2.8
Elements	8	9	9	7	5	5
Field angle	32° - 20°	28° - 12°	12° - 8°	62°	25°	15°
CAT No	712 5479	712 5487	712 5495	712 5446	712 5453	712 5461

*) 4x4 (Superslide) projection possible with EKTAPRO Projectors (special condenser necessary, CAT No. 714 4967)





Ektapro Slide Projectors

KODAK EKTAPRO Lens Support (CAT 715 1335)

- gives maximum hold to heavy lenses (especially to Zoom lenses)
- is ideal in fixed installations where lens positions should be kept
- supports smooth operation of focus/autofocus when heavy lenses are used



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Kodak

Dissolve Presentations

With Ektapro 7020/9020 Projectors



Professional dissolve effects without additional units – the new dimension in successful presentation with KODAK EKTAPRO 7020/9020 Slide Projectors

For perfect synchronization with numerous effects and 99 different dissolve times you no longer need additional dissolve units: two KODAK EKTAPRO Slide Projectors, a dissolve cable and a remote control are sufficient.

For a long time now dissolve technology has been a permanent part of professional slide shows. The visual impact of a presentation where images from subsequent slides merge smoothly into each other considerably enhances the success and power of persuasion of the show. However, the technical expenditure is mostly very high combined with complicated wiring of additional control units.

With KODAK EKTAPRO 7020 and 9020 Slide Projectors dissolving has never been easier: You simply connect two projectors with the KODAK EKTAPRO Dissolve Cable and immediately via the IR-remote control you can set your dissolve commands.

In any case the second projector can be a KODAK EKTAPRO 4010, 4020, 5000, 5020, 7000, 7010, 7020, 9000, 9010 or a 9020.

If you present with only one KODAK EKTAPRO 7020 or 9020 Slide Projector: then you can fade slides out and in and thus perform a Soft Slide Change.

As you can see: it couldn't be simpler, faster or more convenient...

The commands at a glance

Function	Code
Setting dissolve times (Soft Slide Change in single projection)	801 - 899
Alternate (Crossfading without slide change)	777
Freeze	789
Random Access	0 - 160
Auto-Timer	600 - 660
Parallel Projection Mode	970
Individual lamp control of the MASTER	770
Individual lamp control of the SLAVE	707
Independant Projector Control Mode	980
Reactivating of the dissolve mode	990
Reset	999
Remote Security Mode	989

Dissolve Presentations with Ektapro 7020/9020 Projectors



This is how you install your projectors

You simply connect the P-Bus-In Interface of your two projectors via the KODAK EKTAPRO Dissolve Cable (accessory). One of the two projectors receives the commands for dissolving and effects from an IR-Remote Control. This projector must be a KODAK EKTAPRO 7020 or a 9020 and is called the MASTER. The odd numbered slides are positioned in the tray on the MASTER projector.

The second projector called SLAVE, is controlled by the first projector. As a SLAVE projector you can use any KODAK EKTAPRO model with P-Bus-In Interface. A built-in timer has to be switched off. The even numbered slides are positioned in the tray on the SLAVE projector.

This is how you start your presentation

When you switch the projectors on they automatically go into dissolve mode. The slides are alternately faded in and out, the tray transport follows in the dark phase. The projector which is fading up can be focused via the remote control. The commands in the dissolve mode:

- **Programming dissolve times**

Keycode <800...899> + <>*

The dissolve times can be entered directly in steps of 0,1 seconds. The command <800> corresponds to a dissolve time of 0 seconds (hard cut), the command <899> corresponds to 9,9 seconds. The input remains valid until a new entry is entered. (In a single projection the slides are faded out and in.)

- **Dissolving without Slide Change (Alternate)**

Keycode <777> + <>*

In accordance with the set dissolve time.

- **Freeze**

Keycode <789> + <>*

Dissolves or Crossfading can be stopped at any time via this command. By repeating the entry of the code the command is deleted.

- **Random Access**

Keycode <0...160> + <>*

Direct access to a certain slide by entering the slide number. In 2-projector operation the actual slide number is not the compartment number in the tray rather the position number within the show. If the picture number <0> is selected both projectors return to the zero position.

- **Auto-Timer**

Keycode <600...660> + <>*

Slide projection time for automatic running dissolve presentations, settable in steps of 1 to 60 seconds. By entering <600> the Auto-Timer is switched off.

Further modes

- **Parallel Projection**

Keycode <970> + <>*

Both projectors carry out the same functions. With keycode <666> you also can focus the SLAVE via the remote control.

- **Individual Lamp control**

Keycode MASTER <770>+<>, SLAVE <707>+<*>*

The lamp is faded in and out, a slide change does not follow. This is also possible with single projector operation.

- **Independant Projector control**

Keycode <980> + <>*

With a two projector presentation it is possible to control the slide transport independant from each other. The transport keys on the remote handset control the MASTER, and the focus keys the SLAVE. The time depends on the last set dissolve time. Afterwards, the tray remains in its position. Focusing is possible via the focus keys of the projector.

- **Reactivating the dissolve mode**

Keycode <990> + <>*

With this command you change back from parallel projection or individual projector control to the two projector dissolve mode.

- **Reset**

Keycode <999> + <>*

This is the equivalent to a new switching on of the projectors, the trays are put back to the zero position.

- **Remote security mode (blocking of program key)**

Keycode <989> + <>*

The remote control is secured in such a way, that when the transport key is pressed »forwards«, only one dissolve is carried out. Multiple transport caused by pressing the key too long is not possible. The transport step backwards is only carried out when the »reverse« key has been pressed for at least 2 seconds. The focus keys are also blocked and prevent adjustment of the focus by mistake.

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