

# KJ10ex4.5B IRSE

# Canon's Philosophy:

Canon has always developed new technology with four basic philosophies, "High Quality of Picture", "Ease of Operation", "High Specification" and "Minimize Environmental Impact". Canon's HDTV lenses are, so to speak, a compilation of our basic philosophies. Now, Canon adds a new concept to the HDTV lenses by launching the new HDgc Series.



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# **Canon's New HDgc Series**



# **Concept of HDgc Series**

Corresponding to the popularity of digital High Definition broadcasting and diversity of HDTV equipment, Canon has added a new series to its HDTV lens line up, the HDgc series. The new HDgc series supports the emergence of an important new generation of cost-effective HD acquisition systems. Adopting the advantages created by Canon's unique technology, the new HDgc lenses exhibit high MTF, high resolution and high contrast from the center of the image to its extreme edges, meanwhile maintaining its compact size and weight.

Another important policy of Canon's is not to pollute the earth and the HDgc series succeeded in excluding harmful substances such as cadmium, PBBS, PBDPE or mercury from the mechanical parts, and at the same time incorporating lead free glass and reducing the amount of hazardous substances used in electrical parts.

Meet Canon's new HDgc series lenses, a compilation of Canon's advanced technologies.

### **Optical Performance of HDgc Series**

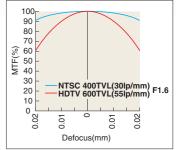
#### Aberration Correction for HDgc Lenses

In the HDTV system the pixel size is about half. Therefore, the spread of a point image caused by a spherical aberration, coma etc. should be diminished to about half. The MTF varies as the focus changes and even if the image is slightly out of focus, the MTF is greatly influenced as shown in Graph 1. HDgc greatly contributes to correcting and minimizing these aberrations at the same time maintaining high MTF throughout the edge of the picture.

#### **Special Optical Elements**

With the goal of minimizing chromatic aberration, the HDgc series lenses utilizes special elements including an artificially re-crystalized element, "Fluorite", with extraordinary dispersion characteristics and the newly developed "Hi-UD" (high index ultra low dispersion) glass. Canon has succeeded in the practical use of special elements along with advanced design techniques like "separate achromatism".





<Graph 1>



#### **Hi-UD Glass**

# **Enhanced Digital Drive**

The KJ10ex4.5B carries Canon's original Enhanced Digital Drive, a drive unit equipped with an information display and a digital function selector so that the user can customize the enhanced digital functions much more easily and precisely. The new design enables the user to fully bring out the digital functions.

# **Main Features**

**Shuttle Shot :** By memorizing any two focal lengths, the digital drive can automatically "shuttle" between the two points, moving in either direction.

**Framing Preset :** An angle of view can be preset in either of two memories and the lens will zoom to that position by pushing a simple button. During a

performance, framing preset will reproduce the zoom position decided upon at the rehearsal. It is easy to repeat the same zoom as often as you like at the highest speed or in a preset zoom speed.

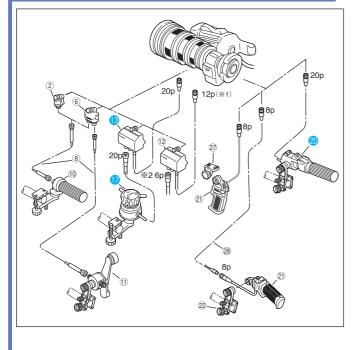
**Speed Preset :** A specific zoom speed can be preset in memory and it is possible to repeat the zoom speed as often as you like by pushing a simple button.

#### (Display Image)





# LENS CONTROLLERS



#	Unit	Description	CODE
2	FFM-100	Flex Focus Module	1824A015
6	FFM-200	Flex Dual Module	1824A013
8	FC-40	Flex Cable	1824A010
10	FFC-200	Flex Focus Controller	1824A014
$\bigcirc$	FZC-100	Flex Zoom Controller	1824A021
12	FPM-420	Focus Positional Servo Module	1824A026
13	FPM-420D	Focus Positional Servo Module	1824A129
	FPD-400D	Focus Positional Demand	1824A124
20	ZSD-300D	Zoom Demand	1824A123
21	ZSG-200M	Zoom Servo Grip	1824A069
22	CR-10	Clamper	1824A007
Ð	ZGA-500	Grip Adapter	0043T088
28	EC-80	Zoom Extension Cable (8P)	1824A009
29	CC-0620	Conv. Cable (6pM-20pF)	1824A128
33	CC-2012	Conv. Cable (20pM-12pF)	1824A126

(※1) @CC-2012 conversion cable is necessary to connect between IRSE Digital Drive Lens and FPM-420. (#2)@CC-0620 conversion cable is necessary to connect between FPM-420, FPM-500 or IAS Analog Drive Lens and FPD-400D.

#### **OPTICAL ACCESSORIES** TYPE MODEL UV/127P0.75 1823A083 Ultra Violet CL/127P0.75 1823A093 Clear CRS/127P0.75 1823A085 Cross Screen SNW/127P0.75 1823A087 Snow Cross SNY/127P0.75 1823A088 Sunny Cross PL/127P0.75 1823A090 Polarized Light KJ10ex4.5B IRSE SFT/127P0.75 1823A089 **FILTERS** Softon Lens ND8(12.5%Transmittance) ND8/127P0.75 1823A086 U٧ CRS SNY SFT 1 The filters are to be attached to the threaded hood unit U ND CLEAR SNW PL Hood Unit

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