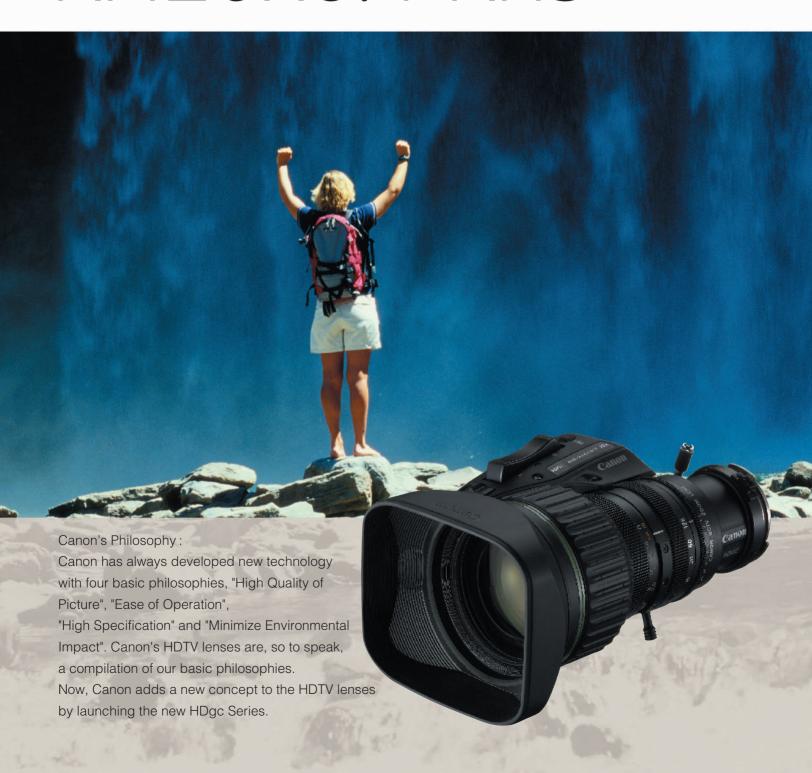
## Canon

# KH20x6.4 KRS 1560





## KH20x6.4 KRS



#### 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.

### **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.

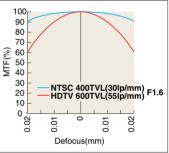
## Optical Performance of HDgc Series Aberration Correction for HDgc Lenses

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** 

#### Other Features of KH20x6.4 KRS

#### **Shuttle Shot Function**

Shuttle Shot is a Canon Exclusive Technology that enhances production capabilities. At the touch of a button, this feature allows the operator to zoom back and forth instantly between any two positions. It can be used to zoom to the telephoto position to check focus and then return instantly to the original position or you can "shuttle" between any two zoom positions at any time.











#### **Compact Design**

The KH20x is smaller in size and lighter in weight compared to the traditional BCTV lenses, which allows ease of use when carried on a shoulder.

#### **Advanced Drive Unit**

The new ergonomically designed drive unit achieves an ideal balance and comfort by having it tilt to an ideal angle. In addition, the size of the unit has been minimized to comfortably fit in the palm of one's hand. Overall, it improves the feeling of unity between the user and the lens. Moreover, the drive unit is equipped with a Shuttle Shot Function while offering a maximum zoom speed of 1.2sec from wide end to tele end.

#### **New Ergonomic Drive Unit**

The new ergonomically designed drive unit achieves an ideal balance and comfort by having it tilt to an angle. In addition, the size of the unit has been minimized to comfortably fit in the palm of one's hand. Overall, it improves the feeling of unity between the user and the lens.

> Maximum Zoom Speed 1.2sec. from wide end to tele end.

> > handling control.





**Enhanced Macro Function** 

Allows from the lens front an M.O.D. of 10mm.

New HDgc Logo

#### **Ecological Design**

The HDgc series has succeeded in reducing the use of harmful and hazardous substances that could pollute the environment.

#### **HDTV Optical Performance**

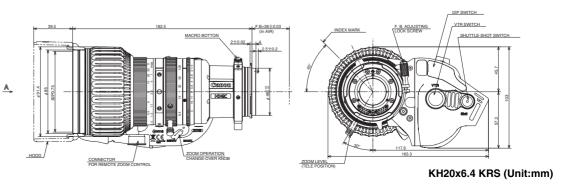
- Reduced Chromatic AberrationsHigh and Flat MTF
- Countermeasures Against Ghosting and Flares

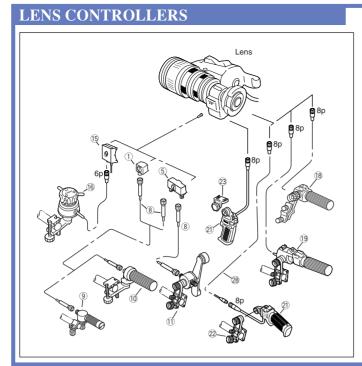
#### **SPECIFICATIONS**

#### **KH20x6.4 KRS**

	16:9
Zoom Ratio	20X
Range of Focal Length	6.4 – 128mm
Maximum Relative Aperture	1:1.4 at 6.4 – 89.6mm 1:2.0 at 128mm
Angular Field of View	57.1° x 34.1° 3.1° x 1.8°
Minimum object Distance (M.O.D.)	0.9m (10mm with Macro)
Object Demensions at M.O.D.	89.8 x 50.5cm at 6.4mm 4.6 x 2.6cm at 128mm
Approx. Size	W x H x L = 163.3 x 103 x 182.5 mm
Approx. Mass	1.27Kg

#### **DIMENSIONS**





#	Unit	Description	CODE		
(1)	FM-12	Flex Focus Module	1824A012		
(5)	FM-70	Flex Dual Module 0002T071			
8	FC-40	Flex Cable 1824A010			
9	FFC-15	Flex Focus Controller 1824A024			
10	FFC-200	Flex Zoom Controller 1824A014			
11)	FZC-100	Flex Zoom Controller 1824A02			
15)	FPM-77	Focus Positional Servo Module 1824A02			
16	FPD-400	Focus Positional Demand 1824A01			
18	ZSD-15M II	Zoom Demand 1824A07			
19	ZSD-300M	Zoom Demand         1824A0           Zoom Servo Grip         1824A0			
21)	ZSG-200M				
22	CR-10	Clamper 1824A00			
23	GA-70	Grip Adapter 0018T531			
28	EC-80	Zoom Extension Cable (8P) 1824A009			

OPTICAL AC	CESSOR	RIES				
Close-Up Lenses: 105CL-UP900H  Teleside Converter 1.5X: T15-II  Wide Converter: W80-IIIB  Wide Attachment 0.75X:		Hood Rubber Hood: Cap: Hood: Rubber Hood: Filters(82mm): Sky / UV / ND8 / Stt / Crs / Snw / Sny / PL Wide Converter: W80Y-85 Adapter	<b>&gt;</b>	KH20x6.4 KRS		Dust Cap
WA-75II Fish-Eye Attachment: FEA-IIIB		<u> </u>		Standard • Lens • Hood Ur • Dust Ca, • Operation	nit(Hood p.	Cap,Rubber Hood.)

MODEL	CODE			
82CL-UP800H	1823A041			
82CL-UP1300H	1823A042			
Teleside Con T15-II	1823A005			
Teleside Con T15HD*	1823A098			
Wide Con W80-IIIB	1823A006			
Wide Con W80HD*	1823A094			
Wide Attach WA-75II	1823A008			
Wide Attach WA75HD*	1823A095			
Fish-Eye FEA-IIIB	1824A011			
Adaptor8511	1824A002			
UV / 82mm	1823A030			
Sky / 82mm	1823A031			
Crs / 82mm	1823A032			
Sny / 82mm	1823A033			
Snw / 82mm	1823A034			
ND4 / 82mm	1823A035			
ND8 / 82mm	1823A036			
Sft / 82mm	1823A037			
PL / 82mm	1823A038			
W80Y-85	1823A009			

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Specifications subject to change without notice

