Canon

DIGITAL DRIVE

IFXs DD

J16a x8B

IFXS DIGITAL DRIVE DD Another Breakthrough Innovation

J16ax 8B

IFXS : The "**XS**" comes from "Excess" and the new generation lens series, **IFXS** exceeds conventional lens specifications and concepts with breakthrough technology.

Since the introduction of the first **IFXS** lens (J21ax 7.8B) in 1998, Canon's new design concept "Power Optical System" featuring "**X-Element**" realizing superior specifications within a smaller and more compact size, has become widely accepted in the broadcast industry. Now, Canon proudly announces the latest addition to the **IFXS** series, the J16ax 8B featuring the new breakthrough technology.

X-Element & POWER OPTICAL SYSTEM

Canon has developed a breakthrough optical design concept using a newly developed optical element in the most effective way. We have named the new design concept the "Power Optical System" which can achieve higher specifications and quality in a smaller size and lighter weight, using the new optical "**X-Element**" which corrects colour aberration to a much lower level than with conventional optical elements and layouts.
Using these innovative technologies, the length is 13.3mm shorter and the weight is 70g lighter than the previous model the wide angle is 8mm, M.O.D. is 0.6m.

Digital Drive

Today, Canon is taking that experience and adapting it to our line of portable SDTV and HDTV lenses with "Useful" digital features, we call the new technology "Digital Drive".
In addition to the useful tools that the new Digital Drive provides, this new drive unit also improves several basic functions of portable lenses.

Ergonomic Design and Ease of Use

It may seem that all of the added functions made available by Digital Drive will cause confusion to the cameraperson. On the contrary, the digital functions have become "Useful" by having only one memory button on the drive unit.

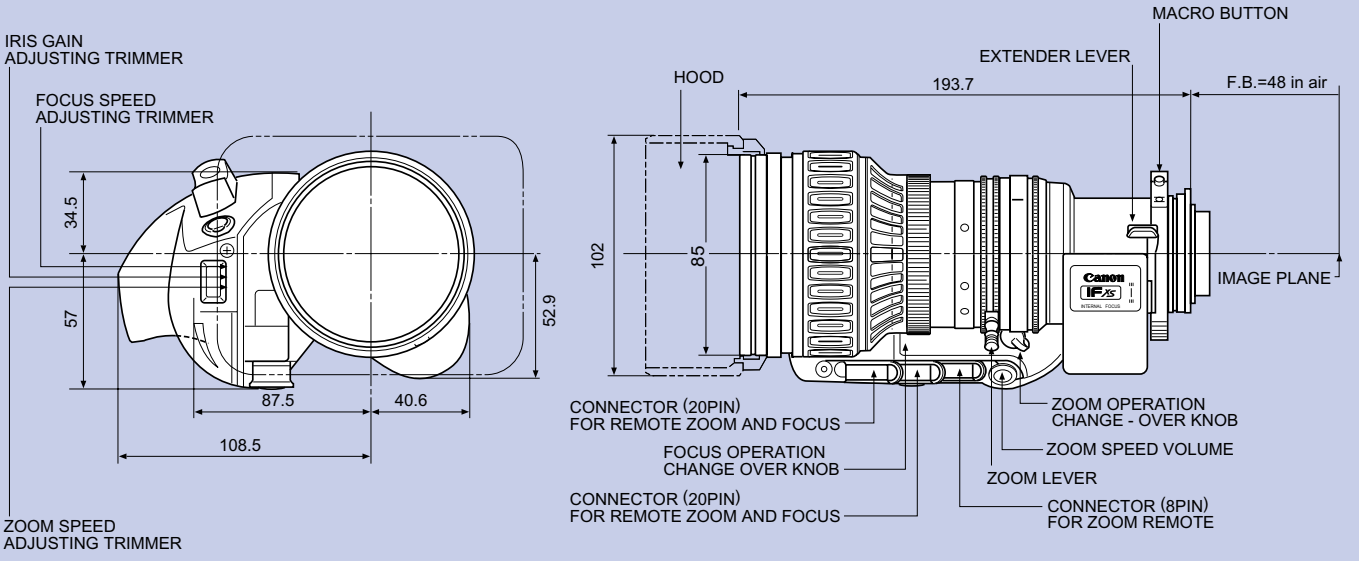
New Digital Drive Demand Series

In addtion, Canon is introducing a new D-Series Zoom Demand, the ZSD-300D. The new demand will be able to operate the Shuttle Shot (Shtl) and Frame Preset (Frame) functions. The ZSD-300D will be connected to the lens via a new one-touch 20-pin connecter. All current analog controllers are compatible with Digital Drive lenses.

Studio/Field Lens Demands*

By using a conversion cable, it is possible to use the Studio/Field digital lens controllers on Digital Drive portable lenses while maintaining the useful Digital Drive functions. (There is some limitation to the new digital functions)

*Only when IASD lens type is used



J16ax 8B IASD/IRSD

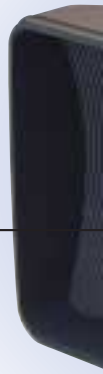
(Unit:mm)

IFXS

POWER OPTICAL SYSTEM
Featuring X-Element

INTERNAL FOCUSING SYSTEM
• The lastest IF system provides high MTF and optical quality.

RUBBER GRIP ON FOCUS RING
• Cameraman friendly design of the focusing operation.



Hi-UD GLASS
(High Index Ultra low Dispersion Glass)
• Dramatically reduces longitudinal and lateral chromatic aberration.

HIGH MTF
• Computer design to upgrade current 5MHz contrast to 6MHz.

SHORT M.O.D., 0.6m (2ft)

MINIMIZED VARIATION OF ABERRATIONS WHILE FOCUSING

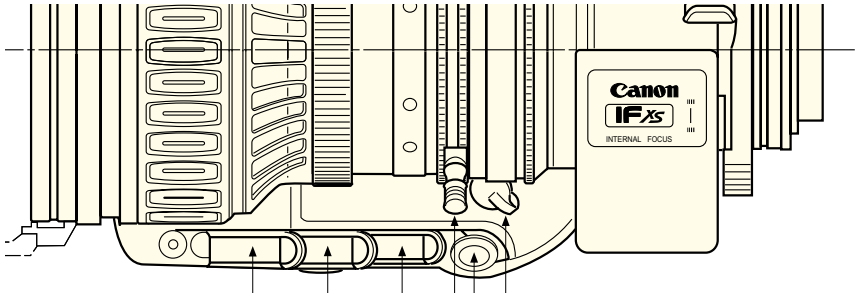
MINIMIZED DISTORTION

REDUCED LONGITUDINAL AND LATERAL CHROMATIC ABERRATION

COUNTERMEASURES AGAINST GHOSTING AND FLARES
• New coating and anti-reflection paint achieve the elimination of ghosting and flare.

IASD/WASD/VASD

J16ax 8B is also avaialble with IASD grip. Fully equipped with a built-in motor for focus servo operation. The IASD system is not limited to work on tripods in the studio.Canon has succeeded in a remarkable reduction of 30% of the electrical parts used in the grip by producing a customized IC. Focus motor and other required components are packed in the original size and ergonomical design.



DIGITAL DRIVE

MACRO
• 5cm

4:3 16:9
CROSSOVER
CANON TV ZOOM LENS

CROSSOVER TYPE
OPTIONALLY AVAILABLE
(WASD,VASD)

BUILT - IN 2X EXTENDER
• 256mm at tele side with 2X extender.

ZOOM RATIO 16X
• Faster and quieter servo system

WIDE ANGLE OF 57.6 DEGREES AT 8mm

LENGTH 193.7mm

WEIGHT IRSDNRSU 1.33kg
(IRS/VRS Type)
• Lightest weight in it's class

BETTER VIEWING OF IRIS SCALE
• Miniaturized built - in extender provides better viewing of scale of iris as well as that of zoom and focus.

Superior specifications with smaller and compact size

J21ax7.8B — Length/Weight
M.O.D. : 0.8m
Zoom Ratio : 21x
Wide end : 7.8mm
Tele end : 164mm
214mm/1.65kg

J15ax8B (Previous model) — Length/Weight
M.O.D. : 0.65m
Zoom Ratio : 15x
Wide end : 8mm
Tele end : 120mm
207mm/1.4kg

IFxs
J16ax8B — Length/Weight
M.O.D. : 0.6mm
Zoom Ratio : 16x
Wide end : 8mm
Tele end : 128mm
193.7mm/1.33kg

The Feature of Digital Drive

Shuttle Shot

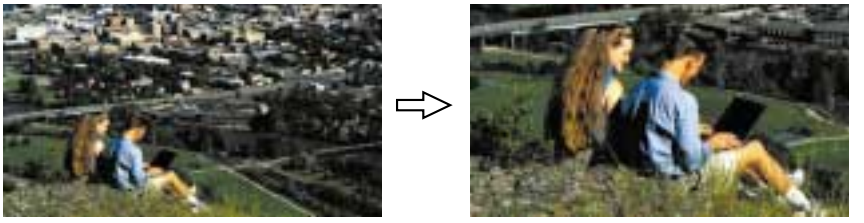
By memorizing any two focal lengths, the Digital Drive can automatically "shuttle" between the two points at its highest speed, moving in either direction.

Speed Preset

A specific zoom speed can be preset in the memory and it is posssible to repeat the zoom speed as often as you like by pushing a simple button. This is useful when a production requires the same zoom speed repeatedly, such as an interview program.

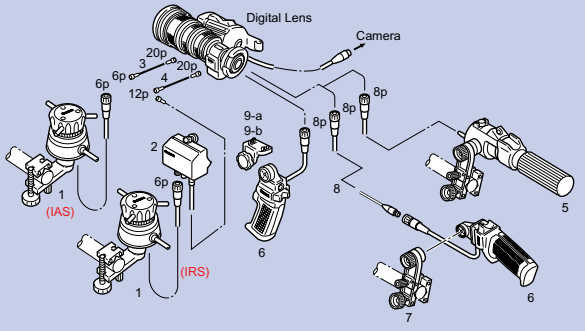
Framing Preset

An Angle of view can be preset in the memory and the lens will zoom to that position by simply pushing a button. During a performance, framing preset will reproduce the zoom as often as you like at the highest speed or in a preset zoom speed.



FULL SERVO CONTROL SYSTEM FOR DIGITAL

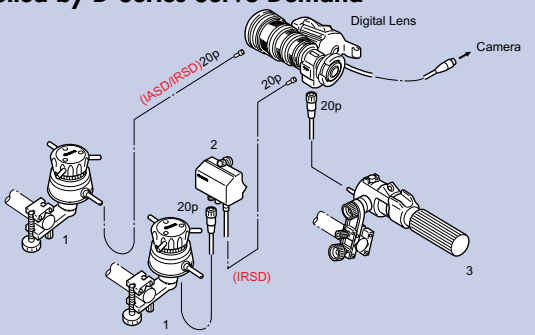
Controlled by Analogue Servo Demand



No.	DESCRIPTION		CODE
1	**Focus Positional Servo Demand**	FPD-400	BG2-2552
2	**Focus Positional Module**	FPM-420	BG2-3366
3	**Conversion Cable 20p-6p**	CC-2006	
4	**Conversion Cable 20p-12p**	CC-2012	
5	**Zoom Servo Demand**	ZSD-300M	BG2-2556
6	**Zoom Servo Grip**	ZSG-200M	BG2-2596
7	**Clamper**	CR-10	BG2-0613
8	**Extension Cable**	EC-80	BG2-0239
9-a	**Grip Adapter(For J21aX/HJ18XII)**	ZGA-400	
9-b	**Grip Adapter(For Others)**	ZGA-500	

FULL SERVO CONTROL SYSTEM FOR DIGITAL

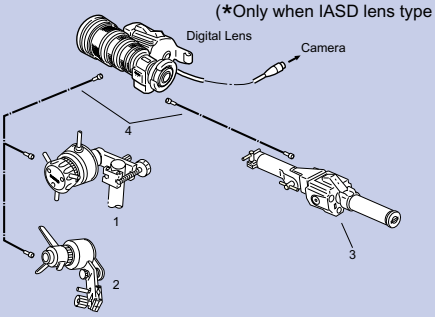
Controlled by D-Series Servo Demand



No.	DESCRIPTION		CODE
1	D-Series Focus Positional Servo Demand	FPD-400D	BG2-7698
2	D-Series Focus Positional module	FPM-420D	BG2-7699
3	D-Series Zoom Servo Demand	ZSD-300D	BG2-7697

Controlled by Digital Servo Demand of Box type lens

(*Only when IASD lens type is used)



No.	DESCRIPTION		CODE
1	Digital Focus Positional Servo Demand	FDJ-D02	BG2-5018
2	Digital Focus Positional Servo Demand	FDJ-D12	BG2-5019
3	Digital Zoom Servo Demand	ZDJ-D01	BG2-5121
4	Conversion Cable(18p-20p)	BDC-10	

SPECIFICATIONS

Applicable Camera		J16ax8B IRSD/IASD/For 2/3" Camera			
Lens Type		J16ax8B IRSD/IASD/WRSD/WASD/VRSD/VASD		WRSD/WASD	
Camera Mode Type		NORMAL 4:3	16:9	SWITCHABLE 4:3	
Zoom Ratio		16x			
Range of Focal Length	1.0x 2.0x	8~128mm 16~256mm	8~128mm 16~256mm	1.0x 2.4x	6.6~105.6mm 16~256mm
Maximum Relative Aperture	1.0x	1:1.8 at 8~105mm 1:2.2 at 128mm	1:1.8 at 8~105mm 1:2.2 at 128mm	1.0x	1:1.8 at 6.6~105.6mm
	2.0x	1:3.6 at 16~210mm 1:4.4 at 256mm	1:3.6 at 16~210mm 1:4.4 at 256mm	2.4x	1:3.6 at 16~210mm 1:4.4 at 256mm
Angular Field of View	1.0x	57.6°×44.8° at 8mm 3.9°×3.0° at 128mm	61.9°×37.3° at 8mm 4.3°×2.4° at 128mm	1.0x	57.6°×44.8° at 6.6mm 3.9°×3.0° at 105.6mm
	2.0x	30.8°×23.3° at 16mm 2.0°×1.5° at 256mm	33.4°×19.2° at 16mm 2.2°×1.2° at 256mm	2.4x	25.4°×19.2° at 16mm 1.6°×1.2° at 256mm
Minimum Object Distance(M.O.D)		0.6m(50mm with Macro)			
Object Dimensions at M.O.D	1.0x	57.3×43.0cm at 8mm 3.7×2.8cm at 128mm	62.4×35.2cm at 8mm 4.1×2.3cm at 128mm	1.0x	57.3×43.0cm at 6.6mm 3.7×2.8cm at 105.6mm
	2.0x	29.4×22.1cm at 16mm 1.9×1.4cm at 256mm	32.1×18.1cm at 16mm 2.1×1.2cm at 256mm	2.4x	24.1×18.1cm at 16mm 1.6×1.2cm at 256mm
Size W x H x L		IRSD/IASD/VRSD/VASD: 151×99.5×193.7mm(B4), WRSD/WASD: 158.5×116.5×193.7mm(B4) IRSD/IASD/VRSD/VASD: 151×99.5×191.5mm(B3), WRSD/WASD: 158.5×116.5×191.5mm(B3)			
Weight(Approx.)		IRSD/VRSD:1.33kg(2.93lbs), IASD/VASD:1.43kg(3.15lbs), WRSD:1.58kg(3.48lbs), WASD:1.68kg(3.7lbs)			

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