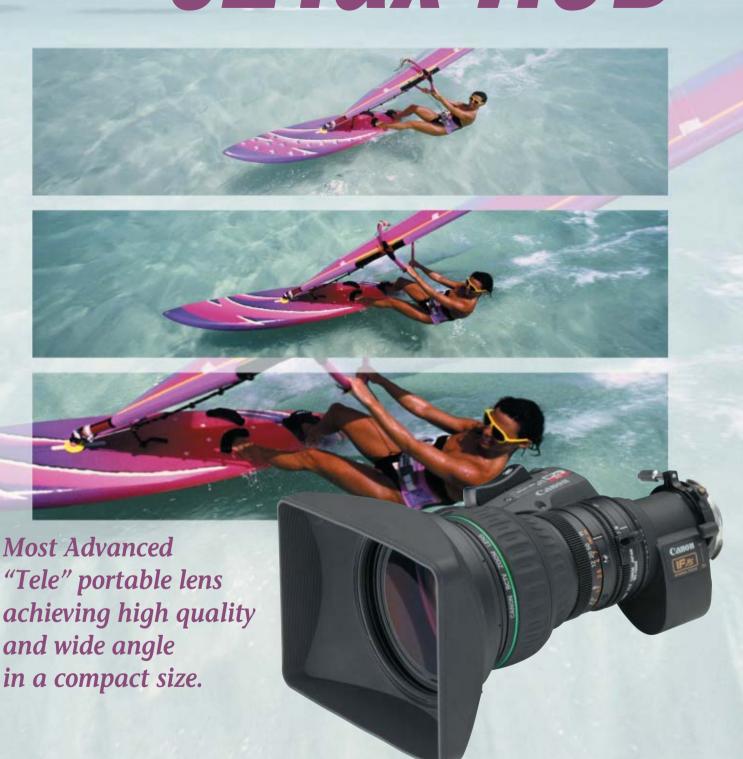
Canon J21ax 7.8B





DIGITAL DRIVE



Most Advanced "Tele" portable lens achieving high quality and wide angle in a compact size. Most Advanced "Tele" angle in a compact size.

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

Canon has always pursued originality with advanced technology meeting user's demands and requirements. **IFX**, which incorporates Canon's Power Optical System featuring the X-Element, is one such innovation and is incorporated within the most advanced "Tele" portable lens with a 21X zoom ratio and an incredible 7.8mm wide angle in a compact size.

X-Element & Power Optical System

Canon has developed breakthrough optical design concepts using a newly developed optical element in the most effective way. We have named this design concept the "Power Optical System" which can achieve higher specifications and quality in a smaller size and lighter weight, using a unique optical "Element" which realizes complete elimination of its aberration. Thanks to the X-Element & Power Optical System, the J21aX7.8B is significantly smaller in size and weight compared to its predecessor offering both more telephoto and a wider angle with improved optical quality.

Digital Drive Unit

Canon's exclusive Digital Drive System provides outstanding operation and 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 memory 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's 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.









A new feature has been added to our "Useful" Digital Drive, called "Zoom Track". It allows the camera operator to adjust the electronic focal length to their desired range by memorizing zoom positions at both the tele and the wide side of the zoom.

Zoom mode select

One of several selectable curves can be chosen which will allow different zoom movement characteristics when operating the rocker

PC connection

Using the Digital communication interface on the lens and an associated Dipswitch, a personal computer can be connected to the lens for operation by remote control. By using optional software, a personal computer system can be used for remote diagnostics of the

Digital demands series

Canon offers a unique digital Zoom Demand, the ZSD-300D and digital Focus Demand, the FPD-400D. The ZSD-300D zoom demand will operate the shuttle shot and frame preset features of the lens. All digital demands connect to the lens via a new one-touch 20-pin connector. All current analog demands are compatible with digital drive lenses.

Studio/Field digital lens demands

By using an adapter cable, it is possible to use the Studio/Field digital lens controllers with the J21aX7.8B.

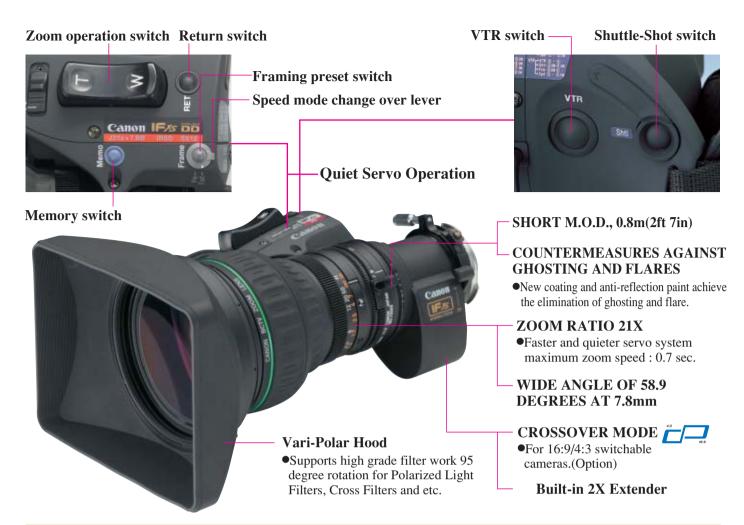
CROSSOVER

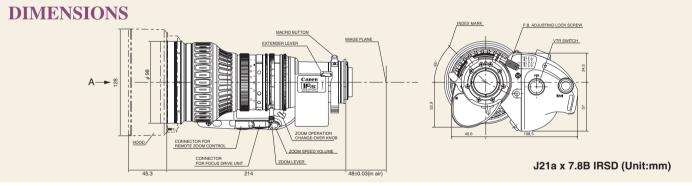
(Dual Aspect ratio Switching System)

The J21aX7.8B is available with the crossover option in two versions, the J21aX7.8B WRSD/WASD with 2X extender and the J21aX7.8B VRSD/VASD without 2X extender for switchable cameras.

Accessories

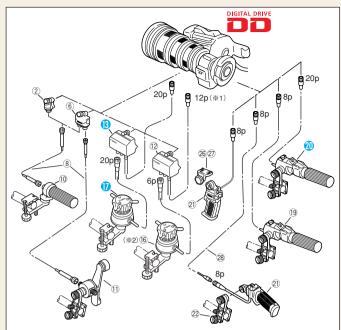
- 1. Optical Accessories: 127mm Filters
- 2. Operation Accessories: Digital zoom demand ZSD-300D and digital zoom focus demand FPD-400D are available to remote the digital functions for EFP applications.





SPECIFICATIONS							
	NORN	IAL4:3	16:9		SWITCHABLE 4:3		
Image Format	8.8×6.6 mm; $\phi 11.0$ mm		9.6 x 5.4mm; φ 11.0mm		7.2×5.4 mm ; $\phi 9.0$ mm		
Built-in Extender	1.0X	2.0X	1.0X	2.0X	1.0X	1.2X	2.4X
Zoom Ratio							
Range of Focal length	7.8 - 164mm	15.6 - 328mm	7.8 - 164mm	15.6 - 328mm	6.45 - 136mm	7.8 - 164mm	15.6 - 328mm
Maximum Relative Aperture	1:1.8 at 7.8~121mm 1:2.45 at 164mm	1:3.6 at 15.6~241mm 1:4.9 at 328mm	1:1.8 at 7.8~121mm 1:2.45 at 164mm	1:3.6 at 15.6~241mm 1:4.9 at 328mm	1:1.8 at 6.45~119mm 1:2.05 at 136mm	1:1.8 at 7.8~121mm 1:2.45 at 164mm	1:3.6 at 15.6~241mm 1:4.9 at 328mm
Angular Field of View	58.9°x45.9° at 7.8mm 3.1°x2.3° at 164mm	31.5°x23.9° at 15.6mm 1.5°x1.2° at 328mm	63.2°x38.2° at 7.8mm 3.4°x1.9° at 164mm	34.2°x19.6° at 15.6mm 1.7°x0.9° at 328mm	58.9°x45.9° at 6.45mm 3.1°x2.3° at 136mm	49.6°x38.1° at 7.8mm 2.5°x1.9° at 164mm	26.0°x19.6° at 15.6mm 1.3°x0.9° at 328mm
Minimum object Distance(M.O.D.)	0.8m(10mm with Macro)						
Object Dimensions at M.O.D.	79.6x59.7cm at 7.8mm 3.9x2.9cm at 164mm	40.8x30.6cm at 15.6mm 2.0x1.5cm at 328mm	86.3x48.5cm at 7.8mm 4.2x2.4cm at 164mm	44.5x25.0cm at 15.6mm 2.2x1.2cm at 328mm	79.6x59.7cm at 6.45mm 3.9x2.9cm at 136mm	65.4x49.1cm at 7.8mm 3.2x2.4cm at 164mm	33.4x25.1cm at 15.6mm 1.6x1.2cm at 328mm
Size(IRSD)	157.5(W)x106(H)x214(L)mm						
Approx.Mass (IRSD/IASD)	1.65kg(3.63lbs)/1.75kg(3.86lbs)						
IRSD/IASD					VRSD/VASD —		
					WRSD/WASD		

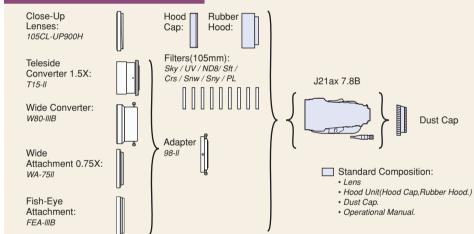
CONTROL ACCESSORIES



#	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
1	FZC-100	Flex Zoom Controller		1824A021
12	FPM-420	Focus Positional Servo Module		1824A026
B	FPM-420D	Focus Positional Servo Module		1824A129
14)	FPM-500	Focus Positional Servo Module		1824A027
16	FPD-400	Focus Positional Demand		1824A018
D	FPD-400D	Focus Positional Demand		1824A124
19	ZSD-300A*/M	Zoom Demand		1824A066
	(A or M types,	depends on applicable camera)	М	1824A067
20	ZSD-300D	Zoom Demand		1824A123
21)	ZSG-200A*/M	Zoom Servo Grip		1824A068
	(A or M types,	depends on applicable camera)		1824A069
22	CR-10	Clamper		1824A007
26	ZGA-400**	Grip Adapter		
28	EC-80	Zoom Extension Cable (8P)		1824A009
32	CC-2006	Conv. Cable (20pM-6pF)		1824A125
33	CC-2012	Conv. Cable (20pM-12pF)		1824A126

(**1) 3 CC-2012 conversion cable is necessary to connect between IRSD Digital Drive Lens and FPM-420. (%2) @ CC-2006 conversion cable is necessary to connect between IASD Digital Drive Lens and FPD-400.

OPTICAL ACCESSORIES



CODE
1823A043
1823A005
1823A006
1823A008
1823A011
1824A004
1823A022
1823A021
1823A023
1823A024
1823A025
1823A027
1823A026
1823A020
1823A028

*Filters with 105mmP1 are to be used for Hood Unit except for UV/94P1 which is to be used for Lens Barre/Thread.

North & South America

Canon USA, Inc.

Broadcast and Communications Div. (Headquarters) 400 Sylvan Avenue Englewood Cliffs, N.J. 07632 Tel:(201)816-2900/(800)321-4388 Fax:(201)816-2909 Email:bctv@cusa.canon.com http://www.canonbroadcast.com/

100 Park Blvd. Itasca, IL 60143 Tel:(630)250-6231 Fax:(630)250-0399

5625 Oakbrook Pkwy. Norcross, GA 30093 Tel:(770)849-7895 Fax:(770)849-7888

Los Angeles 15955 Alton Parkway Irvine, CA 92718 Tel:(949)753-4330 Fax:(949)753-4337

Dallas

3200 Regent Blvd. Irving, TX 75063 Tel:(972)409-8871 Fax:(972)409-8869 Latin America

Tel:(954)349-6975 Fax:(201)816-2909

Canada

Canon Canada, Inc.

Optics Division 6390 Dixie Road Mississauga, Ontario Canada, L5T 1P7
Tel:(905)795-2012 Fax:(905)795-2140

Europe/Africa/Middle East

The Netherlands Headquarters

Canon Europa N.V. TV Products Department Bovenkekerweg 59-61

1185 XB Amstelveen Tel:+31(0)20-5458905 Fax:+31(0)20-5458203 Email:tvprod@canon-europa.com http://www.canon-europa.com/tv-products

Canon Australia Pty. Ltd.

Optical Products Division 1 Thomas Holt Drive, North Ryde, NSW 2113 Tel:+61(0)2-9805-2000 Fax:+61(0)2-9805-2444

Canon Singapore Pte. Ltd / Broadcast Equipment Dept.

No.1 Jalan Kilang Tim r #03-01 Pacific Tech Centre Singapore 159303 Tel:+65 6276-6864 Fax:+65 6271-4226

Japan

Canon Inc.(Broadcast Equipment Group)

20-2, Kiyohara-Kogyo-Danchi, Utsunomiya-shi

Tochigi-ken, 321-3292

Tel:+81(0)28-667-8669 Fax:+81(0)28-667-8672

http://www.canon.com/bctv/

