FUJIFILM

FUJINON

FUJINON TV LENS
富士能电视镜头
UA18x7.6BERD-S6

富士フイルム株式会社
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BB00040963-300
LP481/652/731-765-S6 3108

FCC REGULATIONS

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION : Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Canadian Radio Interference Regulation

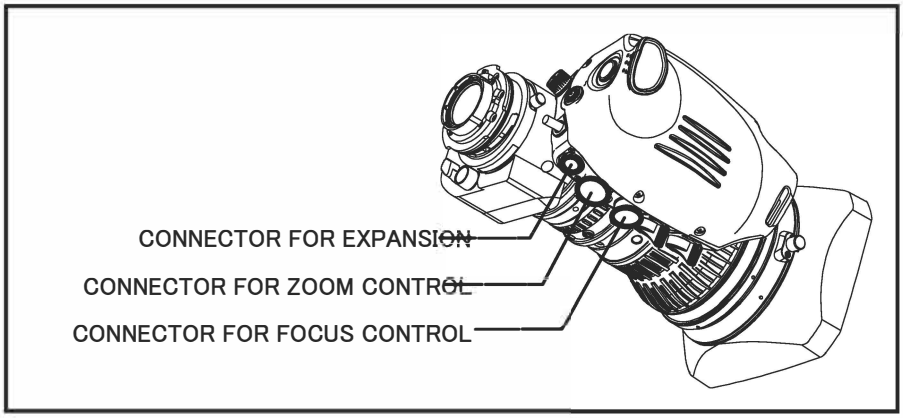
CAN ICES-3(B) / NMB-3(B)
CAUTION : This Class B digital apparatus complies with Canadian ICES-003.

Disposal of Electrical and Electronic Equipment in Private

In the European Union, Norway, Iceland and Liechtenstein:
This symbol on the product, or in the manual, and/or on its packaging indicates that this product shall not be treated as household waste. Instead it should be taken to an applicable collection point for the recycling of electrical and electronic equipment.
By ensuring this product is disposed of correctly, you will help prevent potential negative consequences to the environment and human health, which could otherwise be caused by inappropriate waste handling of this product.

14. CONNECTOR PIN ASSIGNMENTS

The connector pin assignments and functions are listed below.



■ CONNECTOR FOR FOCUS CONTROL

HR10G-10R-12S (HIROSE)

	SIGNAL	
1	+V	(+12V DC)
2	GND	0V
3	COM+V	(7.5V DC)
4	COM	(5.0V DC)
5	COM-V	(2.5V DC)
6	FOCUS DEMAND DETECT	(ANALOG DEMAND=+12V, DIGITAL DEMAND= +5V)
7	FOCUS CONTROL	(Far=7.5V, Near=2.5V)
8	FOCUS POSITION	(Far=2.5V, Near=7.5V)
9	ECU CONTROL SIGNAL	
10	N.C.	
11	N.C.	
12	N.C.	

■ CONNECTOR FOR ZOOM CONTROL

HR10G-10R-12S (HIROSE)

	SIGNAL	
1	+V	(+12V DC)
2	GND	0V
3	COM+V	(7.5V DC)
4	COM	(5.0V DC)
5	COM-V	(2.5V DC)
6	ZOOM DEMAND DETECT	(ANALOG DEMAND=OPEN, DIGITAL DEMAND= +5V)
7	ZOOM CONTROL	(WIDE=7.5V, TELE=2.5V)
8	ZOOM POSITION	(WIDE=2.5V, TELE=7.5V)
9	VTR SW	
10	VTR SW COM	
11	RET SW	
12	RET SW COM	

■ CONNECTOR FOR EXPANSION

HR25-9R-20S (HIROSE)

	SIGNAL	
1	N.C.	
2	GND	0V
3	TxD	(RS-232C)
4	+5V	(1kΩ)
5	DTR	(RS-232C)
6	DSR	(RS-232C)
7	RxD	(RS-232C)
8 ～ 13	N.C.	
14	EXTENDER ANSWER	× 2=L (<0.5V)
15	N.C.	
16	ZOOM(A)	
17	ZOOM(B)	
18	FOCUS(A)	
19	FOCUS(B)	
20	N.C.	

17. OPTIONAL ACCESSORIES

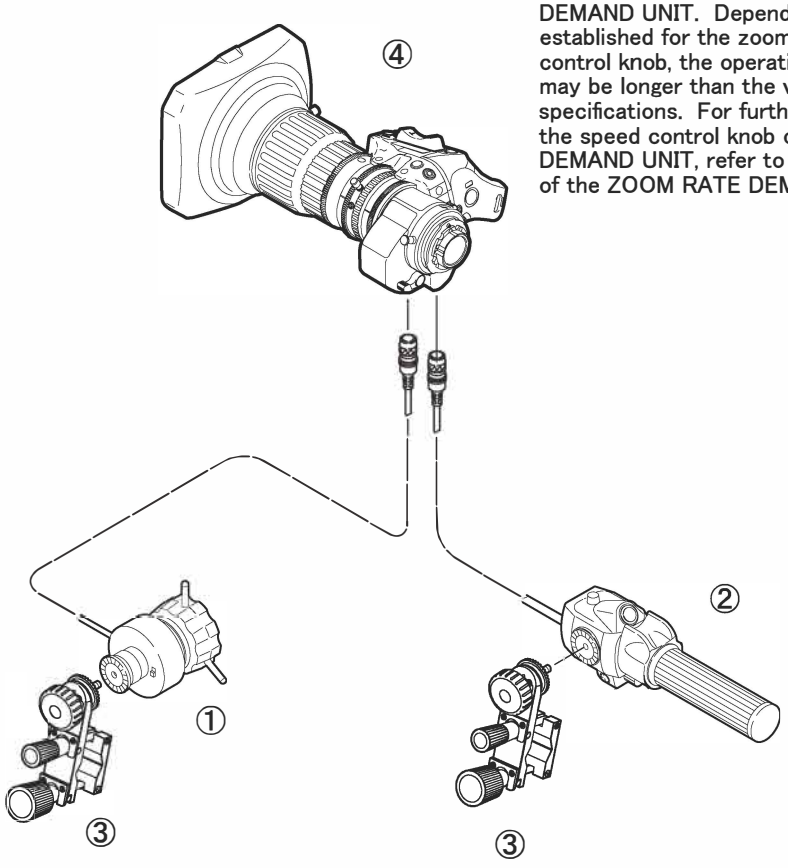
17.1 All Servo System – 1 (Digital Focus,Digital Zoom)

	ACCESSORY NAME	MODEL	REMARKS	
①	Focus Position Demand Unit	EPD-41A-D02	Control unit for focus operation.	Operation angle of the knob is two turns.
		(EPD-41A-D01)		(Operation angle of the knob is one turn.)
②	Zoom Rate Demand Unit	ERD-40A-D01	Control unit for zoom operation and preset operation.	
③	Mounting Clamp	MCA-37	Used with EPD and ERD for their installation.	
④	Lens			

Configuration

All Servo System – 1

Note: The speed of the zoom achieved by operating the ZOOM RATE DEMAND UNIT is the speed that reflects both the setting established for the zoom maximum speed control knob of the drive unit and the setting established for the Speed Control Knob of the ZOOM RATE DEMAND UNIT. Depending on the setting established for the zoom maximum speed control knob, the operation time of the servo may be longer than the value given in the specifications. For further details concerning the speed control knob of the ZOOM RATE DEMAND UNIT, refer to the operation manual of the ZOOM RATE DEMAND UNIT.



ITEM \ LENS	UA18x7.6BERD-S6	UA23x7.6BERD-S6
Application	2/3" Format Color Camera (Prism Optical System)	
Focal Length	7.6 ～ 137 mm [15.2 ～ 274 mm] *	7.6 ～ 175 mm [15.2 ～ 350 mm] *
Zoom Ratio	18 ×	23 ×
Extender Magnification	2 ×	
Maximum Relative Aperture (F No.)	F1.8 (7.6 ～ 102 mm) ～ F2.4 (137 mm) [F3.6 ～ F4.8] *	F1.8 (7.6 ～ 119 mm) ～ F2.65 (175 mm) [F3.6 ～ F5.3] *
Iris Range	F1.8 ～ F16, Closed	
Image Format (H × V)	9.59 × 5.39 mm (ϕ 11.0 mm) Aspect Ratio 16 : 9	
Flange Focal Length (IN AIR)	48 mm (Adjustable Range: ± 0.2 mm)	
Back Focal Length (IN AIR)	40.51 mm	40.47 mm
Minimum Object Distance (from front of Lens)	0.6 m (0.05 m in Macro Operation)	0.8 m (0.04 m in Macro Operation)
Field Angle (H × V) WIDE	64.5° × 39.0° [35.0° × 20.1°] *	64.5° × 39.0° [35.0° × 20.1°] *
Field Angle (H × V) TELE	4.0° × 2.3° [2.0° × 1.1°] *	3.1° × 1.8° [1.6° × 0.9°] *
Object Area at M.O.D. (H × V) WIDE	696 mm × 392 mm [362 mm × 204mm] *	915 mm × 514 mm [473 mm × 266mm] *
Object Area at M.O.D. (H × V) TELE	41 mm × 23 mm [21 mm × 12mm] *	41 mm × 23 mm [21 mm × 12mm] *
Front Diameter	ϕ 85 mm	ϕ 100 mm
Full Length	204 mm	221.4 mm
Filter Screw	M82 × 0.75 (Mounted on the flens)	M95 × 1 (Mounted on the flens) M107 × 1 (Mounted on the lens hood)
Iris Control	Servo or Manual (Operation angle : 76°)	
Zoom Control	Servo (Operation Time: 0.7 ～ 70 s) or Manual (Operation angle : 90°)	
Focus Control	Manual (Including Motor for Servo Control) (Operation angle : 144.5°)	
Mount	Bayonet Mount	
Current Consumption (at 12V DC, Approx.)	75 mA (Quiescent)	
	625 mA (Maximum)	
Mass (without Lens Hood, Approx.)	1.74 kg	1.95 kg

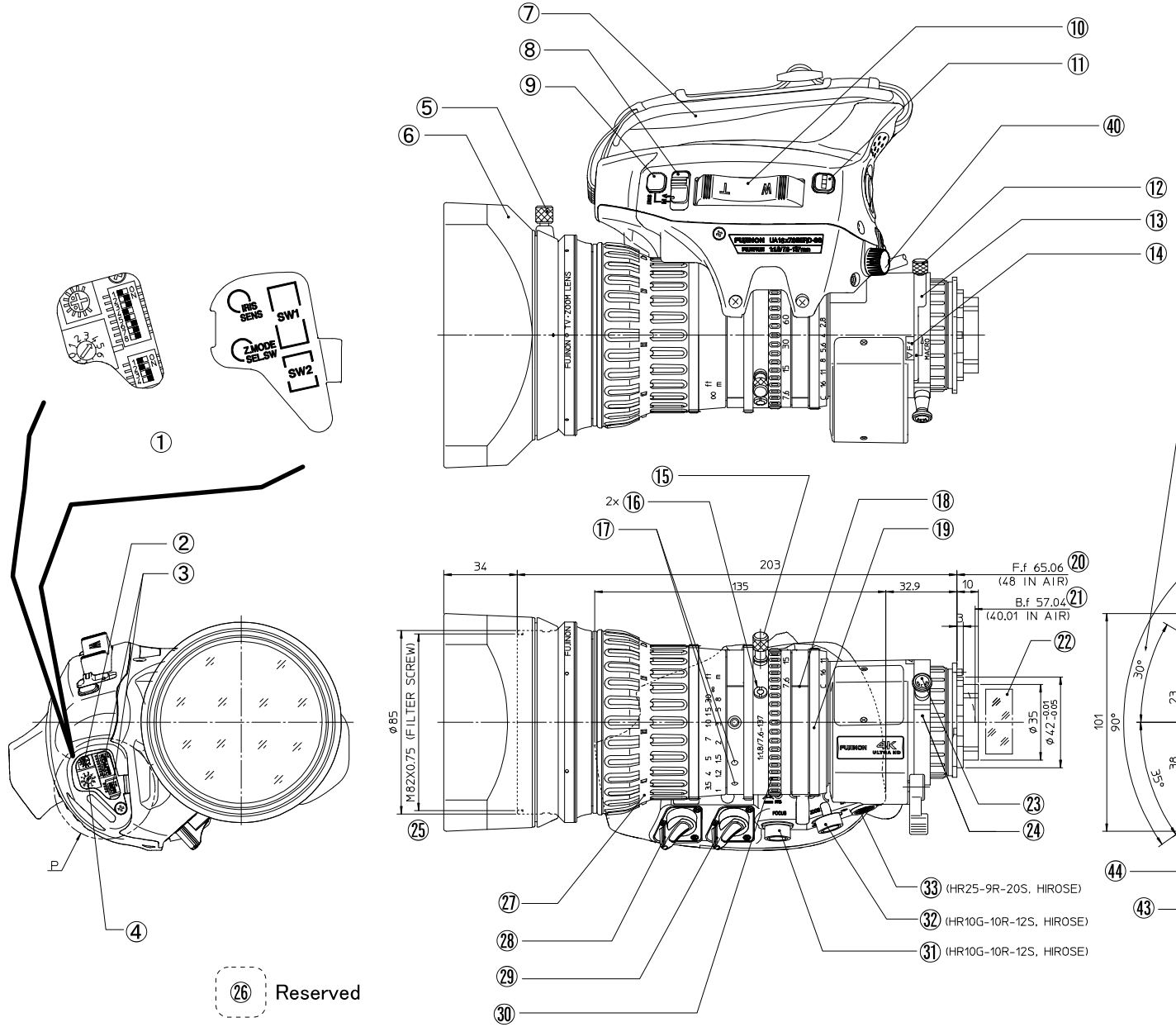
Note. The values in the brackets are given when the 2 × range extender is used.

各部の名称 / Nmaes of Parts / 部件名称

①	P : スイッチ詳細図	P : SWITCH DETAIL	P : 选择开关 详细图
②	アイリス感度調整トリマ	IRIS SENSITIVITY ADJUSTING TRIMMER	光圈灵敏度调节钮
③	機能＆モード切替スイッチ	FUNCTION & MODE SELECT SWITCHES	功能和模式选择开关
④	ズームモード切替スイッチ	ZOOM MODE SELECT SWITCH	变焦模式选择钮
⑤	レンズフード取付つまみ	LENS HOOD ATTACHING KNOB	镜头遮光罩安装旋钮
⑥	レンズフード	LENS HOOD	镜头遮光罩
⑦	バンド	HAND BAND	手带
⑧	アイリスモード切替スイッチ	IRIS MODE SELECT SWITCH	光圈模式选择开关
⑨	アイリスモーメンタリスイッチ	IRIS MOMENTARY SWITCH	光圈手动 / 自动切换开关
⑩	ズームシーソーコントロールレバー	ZOOM SEESAW CONTROL LEVER	压板式变焦控制杆
⑪	リターンスイッチ	RETURN SWITCH	回放开关
⑫	F.f 固定つまみ	F.f LOCKING KNOB	镜座距锁定旋钮
⑬	F.f 調整リング	F.f ADJ. RING	镜座距调节环
⑭	F.f 指標	F.f BASE MARK	镜座距指标
⑮	ズームレバー取付ねじ （2ヵ所）	THREADED HOLES FOR ZOOM LEVER （2 PLACES）	变焦控制杆螺孔（2 个）
⑯	モジュール取付ねじ（2 ヵ所）	THREADED HOLE FOR ZOOM SERVO MODULE （2 PLACES）	变焦控制模块螺孔（2 个）
⑰	モジュール位置決め穴（2ヵ所）	MODULE POSITIONING HOLE (2 PLACES)	模块定位孔（2 个）
⑱	指標線	INDEX LINE	指标线
⑲	アイリスリング	IRIS RING	光圈环
⑳	フランジバック（F.f）	FLANGE FOCAL LENGTH (F.f)	镜座距 （F.f）
㉑	バックフォーカス（B.f）	BACK FOCAL LENGTH (B.f)	后焦距 （B.f）
㉒	光学ガラス	GLASS ELEMENTS	镜玻璃镜片

㉓	マクロレバー	MACRO LEVER	微距拍摄控制杆
㉔	マクロリング	MACRO RING	微距拍摄控制环
㉕	フィルタ取付ねじ（フード）	FILTER SCREW (ON HOOD)	滤镜螺丝（遮光罩）
㉖	予備（空き）	Reserved (blank)	保留 (空)
㉗	フォーカスリング	FOCUS RING	聚焦环
㉘	フォーカスサーボ / マニュアル切替つまみ	FOCUS SERVO/MANUAL SELECT KNOB	聚焦伺服 / 手动切换旋钮
㉙	ズームサーボ / マニュアル切替スイッチ	ZOOM SERVO / MANUAL SELECT KNOB	变焦伺服 / 手动选择旋钮
㉚	ズームリング	ZOOM RING	变焦环
㉛	フォーカスコントロール用コネクタ	CONNECTOR FOR FOCUS CONTROL	聚焦控制连接器
㉜	ズームコントロール用コネクタ	CONNECTOR FOR ZOOM CONTROL	变焦控制连接器
㉝	拡張用コネクタ	CONNECTOR FOR EXPANSION	扩展插口
㉞	カメラ用ケーブル	CABLE TO CAMERA	摄像机连线
㉟	指標線角度	ANGLE OF INDEX LINE	指标线角度
㊱	ズームレバー	ZOOM LEVER	变焦控制杆
㊲	マウント	MOUNT	支座
㊳	位置決めピン	POSITIONING PIN	定位锁栓
㊴	ズームレバーホルダ	ZOOM LEVER HOLDER	变焦控制杆基座
㊵	ズーム最大スピード調節つまみ	ZOOM MAXIMUM SPEED CONTROL KNOB	最大变焦速度控制旋钮
㊶	VTR スイッチ	VTR SWITCH	VTR 开关
㊷	クイックズーム＆オートクルージングズームスイッチ	QUICKZOOM & AUTO CRUISING ZOOM SWITCH	快速变焦和自动导航变焦开关
㊸	エクステンダ切替レバー	EXTENDER SELECT LEVER	倍率镜选择杆
㊹	指標点	INDEX MARK	指标点

（特別に表記がある場合を除いて）単位：mm
(UNLESS OTHERWISE SPECIFIED) UNIT : mm
（另有规定除外）单位：毫米



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Outline Drawing
UA18 X 7.6BERD-S6 Fig.4