

DIGITAL CAMERA LENS

NX Lens-XL1012 SAMSUNG 30mm F2

SERVICE

Manual

DIGITAL CAMERA LENS



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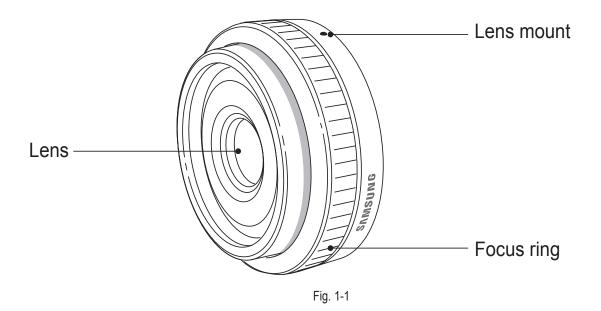
1. Product Specification

1-1 Specifications

Table. 1-1

Lens Name	SAMSUNG 30mm F2
Focus Length	30mm (equivalent to 46.2mm in 35mm format)
Elements in Group	5 groups in 5 elements (1 aspheric lens included)
Angle of View	50.2°
Aperture	F2 (minimum: F22), (Number of Blades: 7, Circular Aperture Diaphragm)
Mount Type	Samsung NX mount
Optical Image Stabilizer	Not Included
Minimum Focus Distance	0.25m~infinity
Maximum Magnification	Approx. 0.16X
Lens Hood	Optional
Filter Size	43mm
Max. Diameter x Length	61.5x21.5mm
Weight	Approx. 85g (without hood)
Operating Temperature	0~40 °C
Operating Humidity	5~85%

1-2 Identification of features



2. Operation Instruction & Installation

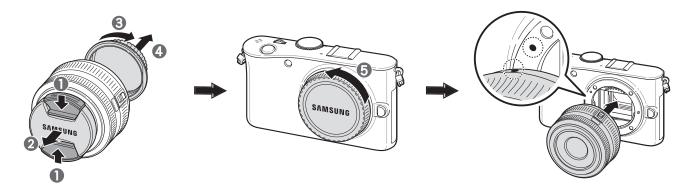
2-1 Install

2-1-1 Attach the lens



■ Before mounting the lens, remove the lens cap, lens mount cover, and body cap.

1) Align the red mark on the lens with the red mark on the camera body.



Flg. 2-1

2) Rotate the lens clockwise until it locks into place.

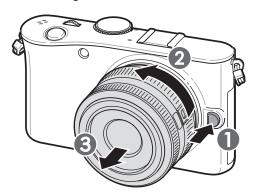


Flg. 2-2

- If you attach a lens with the zoom lock switch, unlock it by rotating the zoom ring counter-clockwise. When the lens is locked, you cannot capture photos and the Lens is locked message appears.
- To lock the lens with the zoom lock switch, turn the zoom ring clockwise while pushing the zoom lock switch..

2-1-2 Remove the lens

- 1) Turn off the camera before removing the lens.
- 2) Rotate the lens clockwise until it locks into place.



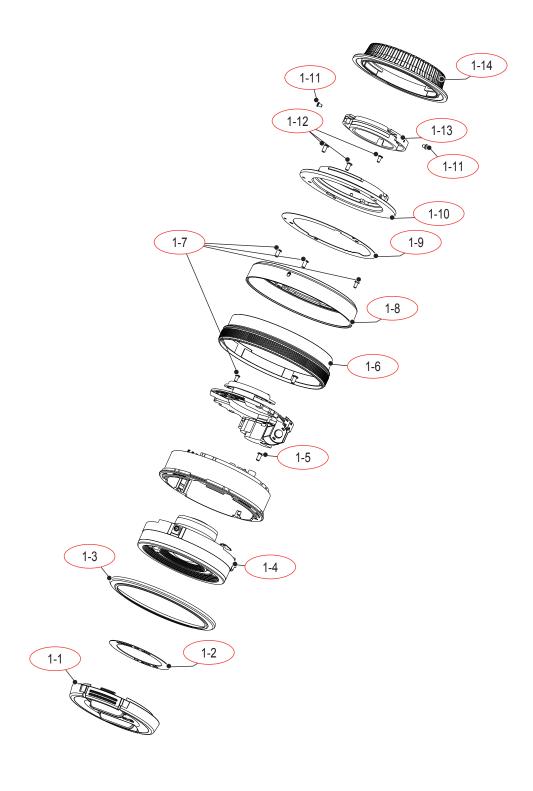
Flg. 2-3

⚠ Caution

- Samsung is not responsible for damage caused by using another manufacturer's lenses.
- When not using the lens, attach the lens cap and lens mount cover to protect the lens from dust and scratches.
- Do not attach or remove lenses in dusty, dirty areas. Dust and foreign particles can damage the lens or the camera.
- Do not touch the inside of the camera mount. Dust and foreign particles can damage the lens.
- When not using a lens, attach the body cap.

3. Exploded View and Parts List

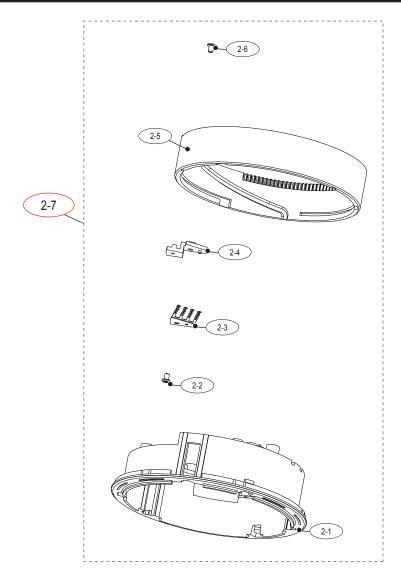
3-1 (XL1012: 30mm F2) TOTAL ASSEMBLY



Exploded View and Parts List

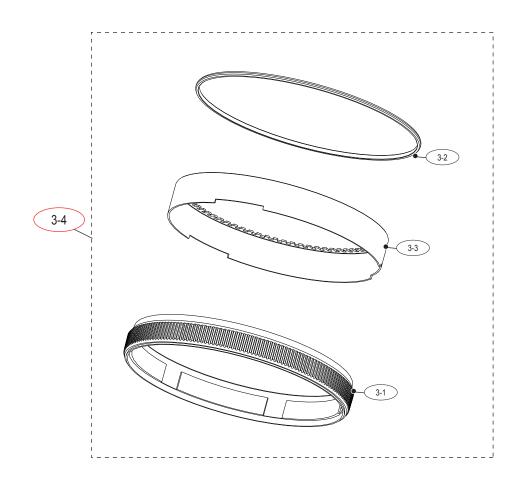
Loc. No	Parts No.	Description	Q ty	Available	Remark
1-1	AD97-18381A	LENS CAP ASS'Y	1	0	
1-2	AD64-02627A	FRONT DECO PANEL	1	0	
1-3	AD64-02628A	DECO RING-OUTER COVER	1	0	
1-4	AD97-17956A	BARREL ASSY-LENS	1	0	
1-5	6003-001706	1430 SCREW	1	0	
1-6	AD92-00967A	LENS MAIN PCB ASSY	1	0	
1-7	6003-001706	1430 SCREW	7	0	
1-8	AD97-21233B	BARREL ASSY-MAIN	1	0	
	AD61-04101A	PUNT AD PLATE A	1	0	
1-9	AD61-04102A	PUNT AD PLATE B	1	0	
	AD61-04103A	PUNT AD PLATE C	1	0	
1-10	AD61-04115A	MOUNT	1	0	
1-11	6003-001714	1420 SCREW	3	0	
1-12	6003-001653	1735 SCREW	3	0	
1-13	AD63-03988A	MOUNT COVER	1	0	
1-14	AD63-03989A	MOUNT CAP	1	0	

3-2 (XL1012: 30mm F2) FIX CAM BARREL ASSEMBLY

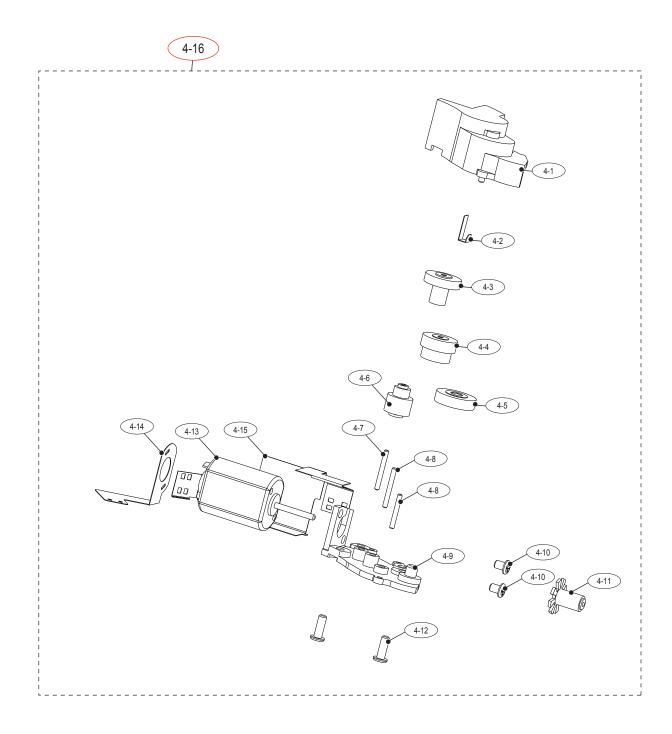


Loc. No	Parts No.	Description	Q ty	Available	Remark
2-1	AD67-01173A	FIX BARREL	1	Х	
2-2	AD67-01171A	CAM BARREL	1	Х	
2-3	6003-001714	1420 SCREW	1	Х	
2-4	AD61-04104A	AF BRUSH	1	Х	
2-5	AD61-04099A	BRUSH BODY	1	Х	
2-6	6003-001714	1420 SCREW	1	Х	
2-7	AD97-17954A	BARREL ASSY-FIX CAM	1	0	

3-3 (XL1012: 30mm F2) FOCUS RING BARREL ASSEBLY



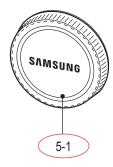
Loc. No	Parts No.	Description	Q ty	Available	Remark
3-1	AD63-03996A	FOCUS GRIP	1	Х	
3-2	AD64-02638B	BLUE RING	1	Х	
3-3	AD66-00681A	FOCUS LEVER	1	Х	
3-4	AD97-21234A	BARREL ASSY-FOCUS RIING	1	0	

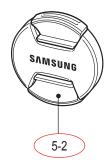


Exploded View and Parts List

Loc. No	Parts No.	Description	Q ty	Available	Remark
4-1	AD63-03987A	AF MODULE COVER	1	Х	
4-2	AD61-04146A	AF MODULE SPRING	1	Х	
4-3	AD66-00676A	AF GEAR B	1	Х	
4-4	AD66-00677A	AF GEAR C	1	Х	
4-5	AD66-00678A	AF GEAR D	1	Х	
4-6	AD66-00675A	AF GEAR A	1	Х	
4-7	AD66-00683A	AF SHAFT C	1	Х	
4-8	AD66-00682A	AF SHAFT A	2	Х	
4-9	AD61-04097A	AF MODULE BASE	1	Х	
4-10	6001-002168	1420 SCREW	2	Х	
4-11	AD66-00679A	WORM GEAR	1	Х	
4-12	6003-001706	1430 SCREW	2	Х	
4-13	AD31-00082A	DC MOTOR	1	Х	
4-14	AD41-01307A	MOTOR FPCB	1	Х	
4-15	AD41-01306A	PI FPCB	1	Х	
4-16	AD97-18164A	MOTOR ASSY	1	0	

3-5 PACKING ITEMS





Loc. No	Parts No.	Description	Q ty	Available	Remark
5-1	AD63-03989A	COVER-MOUNT CAP	1	0	
5-2	AD97-18381A	ASSY-LENS CAP_XL1015	1	0	

4. Disassembly and reassembly

4-1 30mm Lens Disassembly

♠ Precaution for disassembly/reassembly

- 1. Set up the repair table where the anti-static mat is installed to disassemble and reassemble the camera.
- 2. When handling the key PCB of the camera, wear the anti-static band on the wrist to prevent any error from static electricity.
- 3. When handling key parts, be careful of the following.

<Table 4-1>

Part	Precaution
F PCB Type When assembling the F PCB to the CONNECTOR with a pin set, be careful not to cause dent tears on the PCB.	
When handling the parts, be careful not to leave any fingerprints. Use the pin set with soft tips. When cleaning the parts with alcohol, be careful not to cause any stains. Do the repair work in a dust free environment.	
PCB Type Always use the anti-static mat and wrist band, as the parts can be damaged from static elegation from the hand.	
CONTACT Type	Be careful of damage of deformation of parts from the pin set.

No.	Disassembly image	Disassembly description
1		Remove 3 Screws.
2		Remove 3 Screws.
3		Disassemble the Mount Cover.

No.	Disassembly image	Disassembly description
4	THE PART OF THE PA	Remove 2 Screws.
5		Disassemble the Mount
6		PDisassemble the punt AD Plate

No.	Disassembly image	Disassembly description
7	THE STATE OF THE S	Remove 3Screws.
8		Disassemble the Main Barrel Assy.
9		Disassemble the Focus Ring Assy.

No.	Disassembly image	Disassembly description
10	CALL SYNOD PRESENTED TO STATE OF THE STATE	Remove 2 Screws, 2 Connectors.
11		Remove 2 Screws.
12		Remove Main PCB Assy.

No.	Disassembly image	Disassembly description
13		Take apart the CAM BARREL that turns counter-clockwise.
14		Disassemble the CAM Barrel.
15		Remove 4 Screws.

No.	Disassembly image	Disassembly description
16		Disassemble the 2ND Lens Barrel Assy.
17		Remove 2 Screws.
18	Auscung NX Lens At 2 somm see	Disassemble the Front Deco Panel.

No.	Disassembly image	Disassembly description
19		Remove 2 Screws.
20		Disassemble the Filtering.
21		Remove OUTER COVER DECO RING.

No.	Disassembly image	Disassembly description
22		Remove OUTER COVER DECO RING.
23		Remove LENS BARREL ASSY.

4-2 30mm Lens assembly

No.	Assembly image	Assembly description
1		Assemble the (a), (b). At that time, give an attention to Lens Barrel Assy position, as same image. Caution: (b),(c) position
2		Assembled the LENS BARREL ASSY and FIX BARREL. Caution: (a),(b) position
3		Bonding the OUTER COVER DECO RING.

No.	Assembly image	Assembly description
4		Assembled the OUTER COVER DECO RING.
5		(a) and (b) position from Filtering
6		Assembled the Filtering.

No.	Assembly image	Assembly description
7		FRONT DECO PANEL picture of the (a) position According to the assembly. (Be careful about the location of "b".)
8	SEMASUNG NX LENG	Assembled the FRONT DECO PANEL.
9		Pictures like "a" and "b" according to the location 2ND LENS BARREL ASSY the assembly.

No.	Assembly image	Assembly description
10		Assembled the 2ND LENS BARREL ASSY.
11		As shown in the location of the LENS BARREL ASSY "a, b" according to the assembly (Be careful about the location of "c".)
12		Clockwise as shown assembled.

No.	Assembly image	Assembly description
13		This is the assembled state of the Cam barrel assembly.
14		Assembled the 2 Screws, AF MODULE ASSY.
15	CALLIVIOUS COURSE CO	MAIN PCB ASSY on the screw 2 and the connector 2 Assembly.

No.	Assembly image	Assembly description
16		2 position of PI, as shown in the FOCUS RING ASSY carefully assembled.
17	THE STATE OF THE S	Assembled the 3Screws.
18		Assemble to the "b" of the PUNT AD PLATE by matching the point "a" as shown in the figure.

No.	Assembly image	Assembly description
19		This is the assembled state of the PUNT AD PLATE.
20		MOUNT shown to assemble. (Be careful about the location of "b", "c".)
21		MOUNT of the 3 screws assembly.

No.	Assembly image	Assembly description
22		CONTACT ASSY of the 2 screws assembly.
23		Pictures like "a" are assembled according to the MOUNT COVER.
24		MOUNT of the 3 screws assembly.

No.	Assembly image	Assembly description
25		Assembly is completed



Area	Web Site
Europe, MENA, CIS, Africa	https://gspn1.samsungcsportal.com
E.Asia, W.Asia, China, Japan	https://gspn2.samsungcsportal.com
N.America, S.America	https://gspn3.samsungcsportal.com

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