OLYMPUS

INSTRUCTIONS



OLYMPUS ENDO-THERAPY

BIOPSY FORCEPS

FB-7U-1 FB-34C/K-1

FB-11K-1 FB-35C-1

FB-13E/K/Q/U-1 FB-36C/K-1

FB-15C/K-1 FB-37K/U-1 FB-19SX/C/K/N-1 FB-38W-1

FB-20C-1 FB-44D-1

FB-21SX/C/K-1 FB-50K/Q/U-1

FB-22C-1

FB-23K-1

FB-24E/K/Q/U-1

FB-25F/K-1

FB-26N-1

FB-28R/U/Y-1

FB-51K-1 FB-52C/K-1

FB-53K/Q/U-1

FB-54K/Q/U-1

FB-55K/Q/U-1

AUTOCLAVABLE

USA: CAUTION: Federal law restricts this device to sale by or on the order of a physician.

CE

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Symbols

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Symbols

The meaning(s) of the symbol(s) shown on the pack and/or this instrument are as follows:



Refer to instructions.

Important Information-Please Read Before Use

Intended Use

Do not use these instruments for any purpose other than their intended uses.

FB-7U-1, FB-11K-1, FB-13E/K/Q/U-1, FB-23K-1, FB-25F/K-1, FB-26N-1, FB-28R/U/Y-1, FB-38W-1, FB-50K/Q/U-1, FB-51K-1, FB-53K/Q/U-1, FB-54K/Q/U-1, FB-55K/Q/U-1

These instruments have been designed to be used with an Olympus endoscope to collect tissue within the digestive tract.

FB-15C/K-1, FB-19SX/C/N-1, FB-21SX/C/K-1, FB-34C/K-1, FB-44D-1, FB-52C/K-1

These instruments have been designed to be used with an Olympus endoscope to collect tissue within the digestive tract, respiratory organs, female reproductive organs and urinary organs.

FB-20C-1, FB-22C-1, FB-24E/K/Q/U-1, FB-35C-1, FB-36C/K-1, FB-37K/U-1,

These instruments have been designed to be used with an Olympus endoscope to collect tissue within the digestive tract and respiratory organs.

Instruction Manual

This instruction manual contains essential informatio using this instrument safely and effectively. Before thoroughly review this manual and the manuals c equipment which will be used during the procedure use the instruments as instructed.

Keep this and all related instruction manuals in a s accessible location.

If you have any questions or comments about information in this manual, please contact Olympus.

User Qualifications

The operator of this instrument must be a physicia medical personnel under the supervision of a physi and must have received sufficient training in clir endoscopic technique. This manual, therefore, does explain or discuss clinical endoscopic procedures.

Instrument Compatibility

Refer to the Tables in Section 2.2, "Specifications confirm that this instrument is compatible with the anci equipment being used. Using incompatible equipment result in patient injury or equipment damage.

Reprocessing and Storage

This instrument was not sterilized before shipment. Before using this instrument for the first time, reprocess it according to the instructions in Chapter 4, "Reprocessing".

After using this instrument, reprocess and store it according to the instructions in Chapter 4, "Reprocessing" and Chapter 5, "Storage". Improper and/or Incomplete reprocessing or storage can present an infection control risk, cause equipment damage or reduce performance.

Repair and Modification

This instrument does not contains user-serviceable parts. Do not disassemble, modify or attempt to repair it; patient or user injury and/or equipment damage can result.

Signal Words

The following signal words are used throughout this manual:

WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices or potential equipment damage.

NOTE

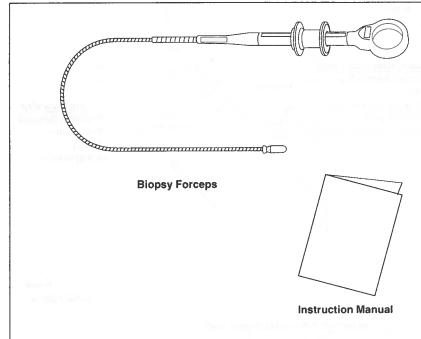
Indicates additional helpful information.

Chapter 1 Checking the Packag Contents

1.1 Checking the Package Contents

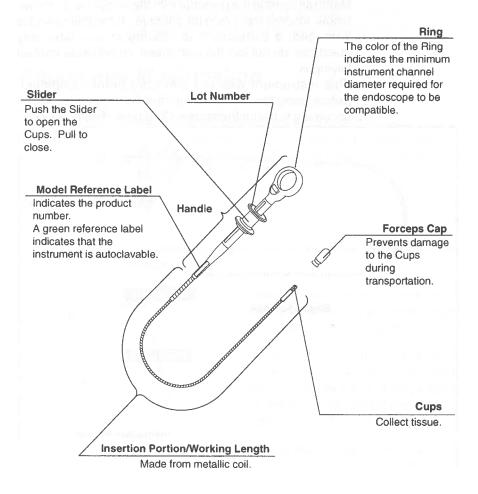
Match all items in the package with the components shbelow. Inspect each item for damage. If the instrume damaged, a component is missing or you have questions, do not use the instrument; immediately cor Olympus.

This instrument was not sterilized before shipm Before using this instrument for the first time, reproce according to the instructions in Chapter 4, "Reprocessi

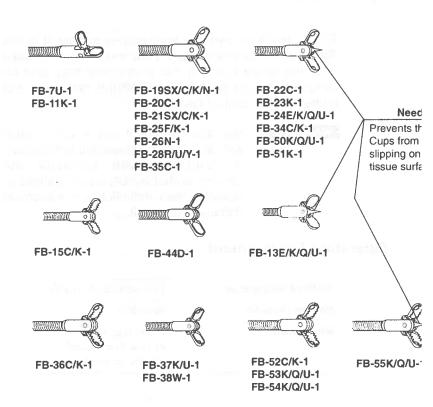


Chapter 2 Instrument Nomenclature and Specifications

2.1 Nomenclature and Functions



Distal End



2.2 Specifications

The compatible Olympus endoscopes are listed in the Tables on the following pages. New endoscopes released after the introduction of this instrument may also be compatible for use in combination with this instrument. For further details, contact Olympus.

WARNING

Use this instrument only in combination with products recommended by Olympus. If combined with products not recommended by Olympus, patient or operator injury, malfunction or equipment damage may result.

Operating Environment

Ambient Temperature	10 to 40°C (50 to 104°F)
Relative Humidity	30 to 85%
Air Pressure	700 to 1060 hPa
	(0.71 to 1.08 kgf/cm ²)
	(10.1 to 15.4 psia)

Specifications

Model		FB-7U-1	FB-11K-
		Alligate	or Type
Shape of the		Q	
Cups			
		13	
Maximum			
Insertion		a :	2.4
Portion		= Junimi	
Diameter (mm)	en e	17.00	
Working Length (mm)		2300	1550
With Needle		N	0
Fenestrated Cups		N	0
	(Tightle)	Working	Working
		length less	length less
		than 1850 mm;	than 1100 n
	Model and	EF, GIF, OGF,	EF, GIF, O
	Length	GF, GTF, JF,	GF, GTF, C
Compatible		TJF, SIF	(Exclude I-,
Olympus		(SIF-10 only),	L-length), C
Endoscopes		CF, PCF, OSF	
(All of these		ø 2.8, ø 3.2	ø 2.8, ø 3
parameters		(Yellow)	(Yellow)
should be met.)	Channel	ø 3.7, ø 4.2,	ø 3.7, ø
	Inner	ø6	(Orange
	Diameter	(Orange)	` "
	(mm)	ø 5.5	
	(Color Code)	(Pink)	

Model		FB-13E-1	FB-13K-1	
inei -		Standard Type		
Shape of the Cups				
Maximum Insertion Portion		ø 3.4		
Diameter (mm)		Highs will the		
Working Length (mm)		1200	1550	
With Needle	dint	Y	ES	
Fenestrated Cups		edit auti	10	
Compatible Olympus Endoscopes	Model and Length	Working length less than 750 mm;	Working length less than 1100 mm; GIF	
(All of these parameters should be met.)	Channel Inner Diameter (mm) (Color Code)	Ø 3.7 (Orange)	ø 3.7, ø 6 (Orange)	

Model		FB-13Q-1	FB-13U-
		Stand	ard Type
Shape of the Cups		C	
Maximum Insertion Portion Diameter (mm)	IMUII	123/146 1 123/146 1	3.4
Working Length (mm)	, Elphoni	1950	2300
With Needle		and through	/ES
Fenestrated Cups		and the second	NO
Compatible Olympus Endoscopes	Model and Length	Working length less than 1500 mm; GIF, TJF, CF (I-length only)	Working length less than 1850 r GIF, TJF, C
(All of these parameters should be met.)	Channel Inner Diameter (mm) (Color Code)	(Or	ø 4.2, ø 6 range) i 5.5 Pink)

Model		FB-15C-1	FB-15K-1
		Alligat	or Jaws
Shape of the Cups			
Maximum Insertion Portion Diameter (mm)	7-11-	Ø	1.8
Working Length (mm)		1050	1550
With Needle	FILE	1	Ю
Fenestrated Cups			10
entighted	horself =	Working length less than 600 mm; CHF, BF, ENF,	Working length less than 1100 mm; EF, GIF, OGF,
Compatible	Model and Length	CYF, HYF. OSF	GF, GTF, CHF,
Olympus Endoscopes (All of these	omit and	on finani	I-, L-length), OSF, BF, ENF, CYF, HYF
parameters should be met.)	Channel Inner Diameter (mm) (Color Code)	ø 2, ø 2.2 (Blue) ø 2.6 (Green) ø 2.8, ø 3.2 (Yellow)	ø 2, ø 2.2 (Blue) ø 2.6 (Green) ø 2.8, ø 3.2 (Yellow) ø 3.7, ø 6
			(Orange)

Model		FB-19SX-1	FB-19
***************************************		Standa	rd Type
Shape of the Cups		A minimum	
Maximum		and the second	
Insertion Portion Diameter (mm)		Ø	1.8
Working Length (mm)		700	105
With Needle		N	10
Fenestrated Cups		Y	ES
Compatible Olympus Endoscopes (All of these	Model and Length	Working length less than 400 mm; CHF, OSF (OSF-2-35 only), ENF, CYF, HYF	Working length le than 600 CHF, OS ENF, CY HYF
parameters should be met.)	Channel inner Diameter (mm) (Color Code)	ø 2, ø 2.2 (Blue) ø 2.6 (Green)	ø 2, ø (Blu ø 2. (Gree ø 2.8, e

Model		FB-19K-1	FB-19N-1	
		Standard Type		
Shape of the Cups		Commence of the second		
Maximum Insertion Portion Diameter (mm)		METHORIA MET	1.8	
Working Length (mm)	ntonesi	1550	1800	
With Needle	oligie	N N	10	
Fenestrated Cups	l'er	ugad) Yi	ES	
2 190. 2 190. 2 191.	Model and Length	Working length less than 1100 mm; EF, GIF, OGF, GF, CHF, CF (Exclude I-, L-length), OSF, BF, ENF, CYF, HYF	Working length less than 1350 mm; EF, GIF, OGF, GF, GTF, JF, TJF, CHF, CF (Exclude L-length), OSF, BF, ENF, CYF, HYF	
(All of these parameters should be met.)	Channel Inner Diameter (mm) (Color Code)	Ø 2, Ø 2.2 (Blue) Ø 2.6 (Green) Ø 2.8, Ø 3.2 (Yellow) Ø 3.7, Ø 6 (Orange)	ø 2, ø 2.2 (Blue) ø 2.6 (Green) ø 2.8, ø 3.2 (Yellow) ø 3.7, ø 4.2, ø 6 (Orange) ø 5.5 (Pink)	

Model		FB-20C-1	FB-21S
		Standa	ard Type
Shape of the Cups			
Maximum Insertion Portion Diameter (mm)		ø 2.2	ø 1.8
Working Length (mm)	Man	1050	700
With Needle	4511		VO
Fenestrated Cups	10.	our 7	ES
to the second second	Model and Length	Working length less than 600 mm; CHF, OSF, BF	Working length les than 400 CHF, OS (OSF-2-3 only), EN CYF, HY
should be met.)	Channel Inner Diameter (mm) (Color Code)	ø 2.6 (Green) ø 2.8, ø 3.2 (Yellow)	ø 2, ø (Blue ø 2. (Gree

Model		FB-21C-1	FB-21K-1
		Standa	rd Type
Shape of the Cups			
Maximum Insertion Portion Diameter (mm)	LIMIT		1.8
Working Length (mm)	Фин	1050	1550
With Needle	FII	THINK N	10
Fenestrated Cups		Y	ES
	Model and Length	Working length less than 600 mm; CHF, OSF, BF, ENF, CYF, HYF	Working length less than 1100 mm. EF, GIF, OGF, GF, GTF, CHF, CF (Exclude
Compatible Olympus Endoscopes (All of these			i-, L-length), OSF, BF, ENF, CYF, HYF
parameters should be met.)	Channel Inner Diameter (mm) (Color Code)	ø 2, ø 2.2 (Blue) ø 2.6 (Green) ø 2.8, ø 3.2 (Yellow)	ø 2, ø 2.2 (Blue) ø 2.6 (Green) ø 2.8, ø 3.2 (Yellow) ø 3.7, ø 6 (Orange)

Model		FB-22C-1	FB-23K
		Standard Type	
Shape of the Cups			
Maximum Insertion Portion Diameter (mm)		ø 2.2	ø 2.4
Working Length (mm)	Time	1050	1550
With Needle			/ES
Fenestrated Cups		midany f	⁄ES
Compatible Olympus Endoscopes (All of these parameters	Model and Length	Working length less than 600 mm; CHF, OSF, BF	Working length les than 1100 EF, GIF, C GF, GTF, CF (Exclu I-, L-length OSF
should be met.)	Channel Inner Diameter (mm) (Color Code)	ø 2.6 (Green) ø 2.8, ø 3.2 (Yellow)	ø 2.8, ø (Yellov ø 3.7, ø (Orang

Model		FB-24E-1	FB-24K-1	
		Standard Type		
Shape of the Cups				
Maximum Insertion Portion Diameter (mm)		- H - H - H - H - H - H - H - H - H - H	2.4	
Working Length (mm)	T perce	1200	1550	
With Needle	-y	-W SWS YI	ES	
Fenestrated Cups	11	YI STUTE	ES	
Compatible Olympus Endoscopes (All of these parameters	Model and Length	Working length less than 750 mm; EF, CF (S-length only), OSF, BF	Working length less than 1100 mm; EF, GIF, OGF, GF, GTF, CF (Exclude I-, L-length), OSF, BF	
should be met.)	Channel Inner Diameter (mm) (Color Code)	ø 2.8, ø 3.2 (Yellow)	ø 2.8, ø 3.2 (Yellow) ø 3.7, ø 6 (Orange)	

Model		FB-24Q-1	FB-24U
		Standa	rd Type
Shape of the			
Cups) ununununun	
Maximum			
Insertion Portion Diameter (mm)		Ø :	2.4
Working Length (mm)	Apuna	1950	2300
With Needle		Y	ES
Fenestrated Cups		Y	ES
		Working	Working
		length less	length les
		than 1500 mm;	than 1850 EF, GIF, C
	Model and	EF, GIF, OGF, GF, GTF, JF,	GF, GTF,
	Length	TJF, CF	TJF, SIF
Compatible		(Exclude	(SIF-10 o
Olympus Endoscopes		L-length),	CF, PCF,
(All of these		PCF (I-length	BF
parameters		only), OSF, BF	
should be met.)	I I I I I I I I I I I I I I I I I I I	ø 2.8	, ø 3.2
	Channel Inner	(Ye	llow)
	Diameter	•	4.2, Ø 6
	(mm)	•	ange)
	(Color Code)	_	5.5
		(P	ink)

1111, 84	Model		FB-25F-1	FB-25K-1	
		Standard Type			
	Shape of the Cups	- II			
	Maximum		nunmindh		
	Insertion Portion Diameter (mm)		Ø	2.4	
	Working Length (mm)	Toronto	1250	1550	
	With Needle	n Ibi		NO	
	Fenestrated Cups		III (TENTE)	res	
	Compatible Olympus Endoscopes	Model and Length	Working length less than 800 mm; EF, CF (S-length only), OSF	Working length less than 1100 mm; EF, GIF, OGF, GF, GTF, CF (Exclude I-,	
	(All of these		Turne (vd)	L-length), OSF	
	parameters should be met.)	Channel Inner Diameter (mm) (Color Code)	ø 2.8, ø 3.2 (Yellow)	ø 2.8, ø 3.2 (Yellow) ø 3.7, ø 6 (Orange)	

Model		FB-26N-1	FB-28R-
		Stand	ard Type
Shape of the Cups			
Maximum			
Insertion Portion Diameter (mm)		agrandi agrandi	2.4
Working Length (mm)	filipanel	1800	2050
With Needle	1111	HILL HILLSE N	0
Fenestrated Cups	11=	oeneme ² YI	ES
Compatible Olympus Endoscopes (All of these	Model and Length	Working length less than 1350 mm; EF, GIF, OGF, GF, GTF, JF, TJF, CF (Exclude L-length), PCF (I-length only), OSF	Working length less than 1600 EF, GIF, O GF, GTF, C TJF, CF (Exclude L-length), (I-length o OSF
parameters should be met.)	Channel Inner Diameter (mm) (Color Code)	ø 2.8 (Ye ø 3.7, ø (Ora	, ø 3.2 llow) ø 4.2, ø 6 ange) 5.5 ink)

Model		FB-28U-1	FB-28Y-1	
		Standard Type		
Shape of the				
Cups		DitoTI	0	
Maximum		Inereige 1		
Insertion		edulinenii 0	2.4	
Portion		Mary I I		
Diameter (mm)				
Working Length (mm)		2300	2700	
With Needle	02.8	NO NO		
Fenestrated Cups		YES		
		Working	Working	
		length less	length less	
		than 1850 mm;	than 2250 mm;	
		EF, GIF, OGF,	EF, GIF, OGF,	
	Model and	GF, GTF, JF,	GF, GTF, JF,	
O a mana di la la	Length	TJF, CF, PCF,	TJF, CF, PCF,	
Compatible		SIF	SIF, OSF	
Olympus Endoscopes		(SIF-10 only),	,	
(All of these		OSF		
parameters		THE POST OF		
should be met.)			, ø 3.2	
Should be filet.)	Channel	•	llow)	
	Inner	ø 3.7, ø	4.2, Ø 6	
	Diameter	(Ora	ange)	
	(mm)	Ø	5.5	
	(Color Code)	(P	ink)	

Model		FB-34C-1	FB-34K
		Stand	ard Type
Shape of the Cups		a.a. 1940-195	
Maximum Insertion Portion Diameter (mm)		TOWNSON OF THE PROPERTY OF T	1.8
Working Length (mm)	Win-	1050	1550
With Needle	ulti	-814 -41(kg)	/ES
Fenestrated Cups	bi	invertible mana	/ES
.mu	end? 'ems	Working length less than 600 mm; CHF, OSF, BF,	Working length les than 1100 EF, GIF, 0
	Model and Length	ENF, CYF,	GF, GTF, CF (Exclu
Compatible Olympus Endoscopes (All of these			I-,L-lengtl OSF, BF, CYF, HYF
(All of these parameters should be met.)	Channel Inner	ø 2, ø 2.2 (Blue) ø 2.6 (Green)	ø 2, ø 3 (Blue ø 2.6 (Gree
	Diameter (mm) (Color Code)	ø 2.8, ø 3.2 (Yellow)	ø 2.8, ø (Yellov ø 3.7, ((Orang
	Other		BF-1T20/30 (T20/30

Model			FB-35C-1
		St	andard Type
Shape of the Cups		nima m.efr 6	
Maximum		m-mlassi	
Insertion Portion Diameter (mm)			ø 2.4
Working Length (mm)		Sections	1050
With Needle	8.3	neil now	NO
Fenestrated Cups		Istinime I Cost	YES
Compatible Olympus	Model and Length	Workin	g length less than 600 mm; OSF, BF
Endoscopes (All of these parameters should be met.)	Channel Inner Diameter (mm) (Color Code)	CHILDRED	ø 2.8, ø 3.2 (Yellow)

Model		FB-36C-1	FB-36K
			tor Jaws
Shape of the Cups		6	
Maximum Insertion Portion Diameter (mm)	11.7	munices o	2.4
Working Length (mm)	Ingris.	1050	1550
With Needle	171-20030119-		NO
Fenestrated Cups	= 1	Pullipative Y	ES
Compatible Olympus Endoscopes (All of these parameters	Model and Length	Working length less than 600 mm; OSF, BF	Working length less than 1100 r EF, GIF, Or GF, GTF, CF (Excluded) I-, L-length OSF, BF
should be met.)	Channel Inner Diameter (mm) (Color Code)	ø 2.8, ø 3.2 (Yellow)	ø 2.8, ø 3 (Yellow ø 3.7, ø (Orange

Model	odel FB-37K-1 FB-3			
		Rat Tooth		
Shape of the Cups				
Maximum Insertion Portion Diameter (mm)	илы	#Hammandd # 2.4		
Working Length (mm)	TEV.	1550	2300	
With Needle	į ili	N	10	
Fenestrated Cups	No.	YES		
Compatible Olympus Endoscopes (All of these	Model and Length	Working length less than 1100 mm; EF, GIF, OGF, GF, GTF, CF (Exclude I-, L-length), OSF, BF	Working length less than 1850 mm EF, GIF, OGF, GF, GTF, JF, TJF, SIF (SIF-10 only), CF, PCF, OSF BF	
parameters should be met.)	Channel Inner Diameter (mm) (Color Code)	ø 2.8, ø 3.2 (Yellow) ø 3.7, ø 6 (Orange)	 Ø 2.8, Ø 3.2 (Yellow) Ø 3.7, Ø 4.2, Ø 6 (Orange) Ø 5.5 (Pink) 	

Model		FB-38W-1
		Rat Tooth
Shape of the Cups		
Maximum		
Insertion Portion		ø 1.5
Diameter (mm)		
Working Length (mm)	e I _{le} i en i	2500
With Needle		NO
Fenestrated Cups		YES
alu T	Model and	Working length less the
Compatible		2050 mm;
Olympus	Length	CHF
Endoscopes	Channel	ø 1.7
(All of these	Inner	(Violet)
parameters	Diameter	
should be met.)	(mm)	
	(Color Code)	

Model	FB-44D-1
	Standard Type
Shape of the Cups	
Maximum	Area of all Landon
Insertion Portion Diameter (mm)	Ø 1.15
Working Length (mm)	HIGHER SECRETARY 1150
With Needle	NO NO
Fenestrated Cups	lente de sere y NO
Commediale	Working length less that 700 mm; Length CHF, BF, URF, HYF
(All of these parameters should be met.)	Channel Ø 1.2, Ø 1.5 Inner (Not color coded) Diameter (mm) (Color Code)

Model		FB-50K-1	FB-50Q-1
Shape of the Cups	197*	0	ard Type
Maximum Insertion Portion Diameter (mm)	Sr=n	marand marand marand marandi	3.1
Working Length (mm)	dina	1550	1950
With Needle		net day Y	ES
Fenestrated Cups		Y AND Y	ES
Compatible Olympus	Model and Length	Working length less than 1100 mm; GIF	Working length less than 1500 m GIF, CF (I-length onl
parameters should be met.)	Channel Inner Diameter (mm) (Color Code)	ø 3.7, ø 6 (Orange)	ø 3.7, ø 4.2 ø 6 (Orange) ø 5.5 (Pink)

Model		FB-50U-1	FB-51K-1	
		Standa	rd Type	
Shape of the Cups		The same of the sa		
Maximum				
Insertion Portion		ø 3.1	ø 5.1	
Diameter (mm)				
Working Length (mm)	[= =]	2300	1550	
With Needle		dbeer and YES		
Fenestrated Cups		YI YI	ES	
Compatible Olympus	Model and Length	Working length less than 1850 mm; GIF, TJF, CF	Working length less than 1100 mm; GIF-XT30 only	
Endoscopes (All of these parameters should be met.)	Channel Inner Diameter (mm) (Color Code)	ø 3.7, ø 4.2, ø 6 (Orange) ø 5.5 (Pink)	ø 6 (Orange)	

Model		FB-52C-1	FB-52K-	
troot min E()		Rat tooth with alligator jav (Swinging type)		
Shape of the Cups				
Maximum Insertion Portion Diameter (mm)	iom	CONTINUED OF THE PROPERTY OF T	1.8	
Working Length (mm)	dipos	1050	1550	
With Needle	eits	NO		
Fenestrated Cups	10	YI MINES	ES	
Compatible Olympus Endoscopes (All of these	Model and Length	Working length less than 600 mm; CHF, BF, ENF, CYF, HYF, OSF	Working length less than 1100 n EF, GIF, OC GF, GTF, C CF (Exclud- i-, L-length) OSF, BF, EI CYF, HYF	
parameters should be met.)	Channel Inner Diameter (mm) (Color Code)	ø 2, ø 2.2 (Blue) ø 2.6 (Green) ø 2.8, ø 3.2 (Yellow)	ø 2, ø 2.2 (Blue) ø 2.6 (Green) ø 2.8, ø 3 (Yellow) ø 3.7, ø 6 (Orange)	

Model		FB-53K-1	FB-53Q-1
Detro ITES	Rat tooth with alligator ja		
		(Swingi	ng type)
Shape of the			
Cups			
Maximum	(0.00	timer, cuts	
Insertion		mefrager	2.4
Portion		nclim!	2.7
Diameter (mm)	Timin	a militare re	
Working Length (mm)	TVIII-	1550	1950
With Needle	10	CHALLERS N	10
Fenestrated Cups		YI dayah	ES
500/60/0		Working	Working
		length less	length less
		than 1100 mm;	than 1500 mm
		EF, GIF, OGF,	EF, GIF, OGF,
	Model and	GF, GTF, CF	GF, GTF, JF,
	Length	(Exclude I-,	TJF, CF
Compatible		L-length), OSF	(Exclude
Olympus			L-length),
Endoscopes			PCF(I-length
(All of these			only), OSF
parameters should be met.)		ø 2.8, ø 3.2	ø 2.8, ø 3.2
anould be met.)	Channel	(Yellow)	(Yellow)
	Inner	ø 3.7, ø 6	ø 3.7, ø 4.2,
	Diameter	(Orange)	ø6
	(mm)	, 3,	(Orange)
	(Color Code)		ø 5.5
			(Pink)

Model		FB-53U-1	FB-54K-	
ritos) mil) (E)		Rat tooth with alligator jav (Swinging type)		
Shape of the Cups		The statement of the st		
Maximum		mental and		
Insertion Portion Diameter (mm)		Timered Ø:	2.4	
Working Length (mm)	digmis	2300	1550	
With Needle	1911	wan miles N	0	
Fenestrated Cups	Ti ₂	YES		
Compatible Olympus Endoscopes (All of these	Model and Length	Working length less than 1850 mm; EF, GIF, OGF, GF, GTF, JF, TJF, SIF (SIF-10 only), CF, PCF, OSF	Working length less than 1100 m EF, GIF, OG GF, GTF, C (Exclude I-, L-length), O	
parameters should be met.)	Channel Inner Diameter (mm) (Color Code)	ø 2.8, ø 3.2 (Yellow) ø 3.7, ø 4.2, ø 6 (Orange) ø 5.5 (Pink)	ø 2.8, ø 3. (Yellow) ø 3.7, ø ((Orange)	

Model		FB-54Q-1	FB-54U-1	
muor tufi vä		Rat tooth with alligator jaws (Swinging type)		
Shape of the Cups				
Maximum Insertion Portion Diameter (mm)	r. Imm	Muxicom sincomn Postlos Bambin	2.4	
Working Length (mm)	rhgun.	1950	2300	
With Needle	110	estil dega N	10	
Fenestrated Cups	, JAc	YI SHUBS	ES	
	Model and Length	Working length less than 1500 mm; EF, GIF, OGF, GF, GTF, JF, TJF, CF (Exclude L-length), PCF(I-length only), OSF	Working length less than 1850 mm EF, GIF, OGF, GF, GTF, JF, TJF, SIF (SIF-10 only), CF, PCF, OSF	
should be met.)	Channel Inner Diameter (mm) (Color Code)	ø 2.8, ø 3.2 (Yellow) ø 3.7, ø 6 (Orange)	ø 2.8, ø 3.2 (Yellow) ø 3.7, ø 4.2, ø 6 (Orange) ø 5.5 (Pink)	

Model		FB-55K-1	FB-55Q-1	
own us 10.5)		Rat tooth with alligator jaw (Swinging type)		
Shape of the Cups			P	
Maximum Insertion		manifemil -	0.4	
Portion Diameter (mm)		- MARINE -	2.4	
Working Length (mm)		1550	1950	
With Needle	1 100	YES		
Fenestrated Cups	69	YES		
A DIVERSION OF THE PROPERTY OF	Munet	Working length less than 1100 mm;	Working length less than 1500 mi	
	Model and	EF, GIF, OGF, GF, GTF, CF (Exclude I-,	EF, GIF, OGI GF, GTF, JF, TJF, CF	
Compatible Olympus Endoscopes	engil	L-length), OSF	(Exclude L-length),	
(All of these	100		PCF(I-length only), OSF	
should be met.)	Channel	ø 2.8, ø 3.2 (Yellow)	ø 2.8, ø 3.2 (Yellow)	
	Inner	ø 3.7, ø 6	ø 3.7, ø 4.2	
	Diameter (mm) (Color Code)	(Orange)	ø 6 (Orange) ø 5.5	
mediine			(Pink)	

Model		FB-55U-1		
lled mil	Rat tooth with alligator jaws (Swinging type)			
Shape of the Cups				
Maximum Insertion Portion Diameter (mm)	£wmi)	no repole nomina in nominali refundeli	ø 2.4	
Working Length (mm)	រត្តក៏ជាក	e annier	2300	
With Needle		-IU rely	YES	
Fenestrated Cups	5-	2400)	YES	
Compatible Olympus Endoscopes (All of these parameters should be met.)	Model and Length	EF, GIF, O	ength less than 1850mm; oGF, GF, GTF, JF, TJF, 0 only), CF, PCF, OSF	
	Channel Inner Diameter (mm) (Color Code)		ø 2.8, ø 3.2 (Yellow) 3.7, ø 4.2, ø 6 (Orange) ø 5.5 (Pink)	
Medical Device Directive	CE	requireme 93/42/EEC devices.	e complies with the nts of Directive C concerning medical tion: Class I	

Chapter 3 Preparation, Inspection and Operation

WARNING

 Before each case, prepare and insp the instrument as instructed belanspect other equipment to be us with the instrument as instructed their respective instruction manus Should the slightest irregularity suspected, do not use the instrume contact Olympus.

Damage or irregularity m compromise patient or user safe such as infection control risk, tiss irritation punctures, hemorrhages mucous membrane damage and m result in more-severe equipmedamage.

- This instrument was not sterilized before shipment. Before using the instrument for the first time, reprocess the according to the instructions. Chapter 4, "Reprocessing".
 Do not use an instrument that has been cleaned and sterilized. The poses an infection control risk or coause tissue irritation.
- When using an instrument that has Needle, be careful not to touch it Needle. Infectious substanc attached to the Needle such as patient's blood or mucous, could pot an infection control risk and/or caupatient injury.

CAUTION

- Do not coil the Insertion Portion with a diameter of less than 15 cm. This could damage the Insertion Portion.
- Never use excessive force to open or close the Cups. This could damage the instrument.

3.1 Preparation

Equipment and Personal Protective Equipment

Prepare all equipment and personal protective equipment which will be used with the instrument in accordance with their respective instruction manuals. Appropriate personal protective equipment may include: Eye wear, a face mask, moisture-resistant clothing and chemical-resistant gloves.

Spare Instrument

Always have a spare instrument available.

Reprocessing Equipment

Prepare reprocessing equipment as described in Section 4.2, "Required Reprocessing Equipment" for immediate reprocessing after use.

3.2 Inspection

Wear the personal protective equipment as specified in t Table on page 49.

Before each case, always inspect the instrume according to the following procedures.

If an abnormality in the instrument is detected, use a spainstrument, inspecting it thoroughly before use.

Inspection of the Sterile Package

Inspect the sterile package for tears, inadequate seali or water damage. If the sterile packages shows a irregularities, the sterile condition of the instrument h been compromised. Use a spare instead.

Appearance Inspection

If any of following steps reveals irregularities, do not u the instrument; use a spare instead.

- While operating the Slider to open and close the Cup confirm that the instrument is free from disconnecti or looseness.
- Make sure that the Cups close evenly and a properly aligned when the Slider is pulled.
- 3. When using an instrument with a Needle, push t Slider to open the Cups and confirm that the Need is not detached or bent conspicuously.
- 4. Confirm that the Distal End of the instrument appea exactly as shown in the Tables in Section 2 "Specifications" and is not damage.
- Gently run your fingertips over the entire length of t Insertion Portion to check for any crushed area excessive bends, etc.

6. Make sure that there are no cracks on the Handle.

Inspection of Operation

If the Cups do not operate smoothly and as intended, do not use the instrument; use a spare instead.

 Holding the instrument as shown in Figure 3.1, form a loop in the Insertion Portion approximately 20 cm in diameter.

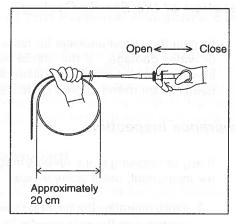


Figure 3.1

Move the Slider and confirm that the Cups open and close smoothly.

3.3 Operation

The operator of the instrument must be a physician or medical personnel under the supervision of a physician and must have received sufficient training in clinical endoscopic technique.

This manual, therefore, does not explain or discuss clinical endoscopic procedures. It only describes basic operation and precautions related to the operation of this instrument.

WARNING

- When using the instrument, alwa wear appropriate personal protective equipment. Otherwise, bloomucous and other potential infections material from the patical could pose an infection control rise. Appropriate personal protective equipment may include: Eye wear, face mask, moisture-resistant clothin and chemical-resistant gloves that properly and are long enough so the your skin is not exposed.
- Do not insert the instrument into the endoscope unless you have a cleendoscopic field of view. If you cannot see the Distal End of the Insertice Portion in the endoscopic field of view or in X ray images, do not use it. The could cause patient injury, such apunctures, hemorrhages or mucous membrane damage. It may also damage the endoscope and/instrument.
- Do not angulate the Bending Sectic of the endoscope(or operate the Forceps Elevator if applicable abruptly while the Distal End of the Insertion Portion is extended from the Distal End of endoscope. This councause patient injury, such as punctures, hemorrhages or mucous membrane damage.

CAUTION

When using the instrument with a two channel endoscope, never us electrosurgical accessories at the san time. This could cause patient, operator assistant injury, such as thermal injury.

Inserting Into the Endoscope

WARNING

- Do not force the instrument if resistance to insertion is encountered. Reduce the angulation (or lower the Forceps Elevator if applicable) until the instrument passes smoothly. This could cause patient injury, such as punctures, hemorrhages or mucous membrane damage. It may also damage the endoscope and/or instrument.
- When inserting the instrument into the endoscope, hold the Slider firmly. Otherwise, the Cups may open and extend from the endoscope tip abruptly. This could cause patient injury, such as punctures, hemorrhages or mucous membrane damage. It may also damage the endoscope and/or instrument.
- Do not advance or extend the instrument abruptly. This could cause patient injury, such as punctures, hemorrhages or mucous membrane damage. It may also damage the endoscope and/or instrument.

CAUTION

- When inserting the instrument into the endoscope, hold it close to the Biopsy Valve or T-plug and keep it as straight as possible relative to the Biopsy Valve or T-plug. Otherwise, the Insertion Portion could be damaged.
- Before inserting the FB-51K-1 into the Biopsy Valve, open the Biopsy Valve.
 If you insert it without opening the Biopsy Valve, you may damage the Biopsy Valve and/or the instrument.

When inserting the FB-51K-1 into the Biopsy Valve, hold it near the Distend of the Insertion Portion to available and the Instrument.

Combined With non-GF, non-GTF, non-or non-TJF Endoscopes

- 1. Pull the Slider to close the Cups.
- With the Cups closed, carefully insert the instrume into the Biopsy Valve or T-plug. (See Figure 3.2)

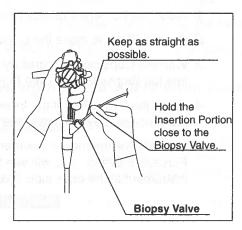


Figure 3.2

 Advance the instrument until the Distal End of t Insertion Portion appears within the endoscopic fit of view.

Combined With GF, GTF, JF or TJF Endoscopes

WARNING

When inserting the instrument into GF, GTF, JF or TJF endoscopes, raise the Forceps Elevator to its maximum height. If the Forceps Elevator is down, you will not be able to see the Distal End of the Insertion Portion in the endoscopic field of view. This could cause patient injury, such as punctures, hemorrhages or mucous membrane damage.

- 1. Raise the Forceps Elevator to its maximum height.
- 2. Pull the Slider to close the Cups.
- 3. With the Cups closed, carefully insert the instrument into the Biopsy Valve. (See Figure 3.2)
- When the Distal End of the Insertion Portion contacts the Forceps Elevator, lower the Forceps Elevator.
- Advance the instrument another 20 mm and raise the Forceps Elevator. You will see the Distal End of the instrument in the endscopic field of view.

Collecting Tissue

WARNING

Do not force the Distal End of the Inserti Portion against body cavity tissue. To could cause patient injury, such punctures, hemorrhages or muco membrane damage.

- To collect the target tissue, angulate the Bendi Section or advance the instrument until it reaches t target site.
- 2. Push the Slider to open the Cups.
- 3. Press the open Cups against the target tissue.
- 4. Pull the Slider to collect the target tissue.

Withdrawing the Instrument From the Endoscop

WARNING

Do not withdraw the instrument from t endoscope quickly. This could scatt blood, mucous or other patient debris a pose an infection control risk.

CAUTION

- Do not withdraw the instrument from the endoscope while the Cups a open. This could damage the endoscope and/or instrument.
- If excessive resistance make withdrawal difficult, adjust the angle the endoscope until the instrument cobe withdrawn smoothly. Forcib withdrawal could damage the instrument and/or endoscope.
- 1. If the endoscope is equipped with a Forceps Elevate lower the Forceps Elevator.
- 2. Pull the Slider to close the Cups.
- 3. Withdraw the instrument from the endoscope.

Chapter 4 Reprocessing

WARNING

This instrument was not sterilized before shipment. Before using this instrument for the first time, reprocess it according to the instructions in this Chapter. Do not use an instrument that has not been cleaned and sterilized. This poses an infection control risk or can cause tissue irritation.

4.1 General Policy

- The medical literature reports incidents of patient cross contamination resulting from improper cleaning or sterilization. It is strongly recommended that reprocessing personnel have a thorough understanding of and follow all national and local hospital guidelines and policies.
 - A specific individual or individuals in the endoscopy unit should be responsible for reprocessing endoscopic equipment. It is highly desirable that a trained backup be available should the primary reprocessing individual(s) be absent.
- All individuals responsible for reprocessing should thoroughly understand:
 - your institution's reprocessing procedures
 - occupational health and safety regulations
 - national and local hospital guidelines and policies
 - · the instructions in this manual
 - the mechanical aspects of endoscopic equipment

pertinent germicide labeling

Olympus Endo-Therapy Accessories are compatible w 2.0% to 3.2% glutaraldehyde solution. However, routi biological monitoring is not feasible with glutaraldehy and, therefore, it should not be used to sterilize reusal medical devices that are compatible with other methods sterilization that can be biologically monitored, such steam sterilization.

WARNING

- Failure to properly clean and sterili the instrument after each examination can compromise patient safet During use, the instrument norma comes in contact with intact muco membranes. To minimize the risk transmitting diseases from one patie to another, after each examination the instrument must undergo thorough cleaning followed by sterilization.
- If the instrument is not cleaned meticulously, effective sterilization cannot be obtained. Clean the instrument thoroughly before sterilization to remove microorganisms or organic mater which can limit the effectiveness of the sterilization process.

- Patient debris and reprocessing chemicals are hazardous. Wear personal protective equipment to guard against dangerous chemicals and infectious material. During cleaning and sterilization, always wear appropriate personal protective equipment, such as eye wear, a face mask, moisture-resistant clothing and chemical-resistant gloves that fit properly and are long enough so that your skin is not exposed. Always remove contaminated protective clothing before leaving the reprocessing area.
- The reprocessing procedures described in this manual should be completed the same day has been used. If reprocessing is delayed, residual organic debris will solidify and it may be difficult to effectively reprocess the instrument.

4.2 Required Reprocessing Equipment

Wear the personal protective equipment as specified in the Table on page 49.

- Prepare the following equipment. The required amount of detergent solution, lubricant and other equipment depends on the number of instruments to be reprocessed.
- 2. Fill an immersion basin with detergent solution and fill a second immersion basin with lubricant at the temperatures and concentrations recommended by the manufacturers. Also fill the ultrasonic cleaner with a detergent solution appropriate for ultrasonic cleaning.

Equipment Needed for Reprocessing

To perform proper reprocessing, the equipment in t following Table is required. For details on preparation a directions for use of the following equipment, refer to t respective instruction manuals or contact the equipment manufacturer.

Contact Olympus for the names of specific brands detergent solutions and lubricants.

Equipment Needed

Protective Equipment	Appropriate personal protective equipmen may include: Eye wear, face mask, moisture-resistant clothing and chemical-resistant gloves.		
Immersion Basin for Detergent Solution	Use a basin with a depth and diameter largenough to allow complete immersion of the instrument when the Insertion Portion is coiled with a diameter of not less than 15 c		
Detergent Solution for Immersion	Use a neutral pH, low-foaming, medical grade detergent solution.		
Ultrasonic Cleaner	Use a medical grade ultrasonic cleaner with a frequency range of 38 to 47 kHz, and with a depth and a diameter large enough to allow complete immersion of the instrument when the Insertion Portion is coiled with a diameter of not less than 15 cm. Compatible ultrasonic cleaners include OLYMPUS ULTRASONIC CLEANER KS-22		
Detergent Solution for Ultrasonic Cleaning	Use a neutral pH, low-foaming, medical grade detergent solution with no abrasive.		
Lubricant	Use a medical grade water soluble or low-viscosity emulsion type lubricant.		

Immersion Basin for Lubricant	Use a basin with a depth and diameter large enough to allow complete immersion of the instrument when the Insertion Portion is coiled with a diameter of not less than 15 cm.
Lint-free Cloths	Ree Bring hate
Packages for Steam Sterilization	Use a packages compatible with steam sterilization (autoclaving). The packages should be large enough to accommodate the instrument when the Insertion Portion is coiled with a diameter of not less than 15 cm.
Sealing Device for packages	Sealing the packages may require a device such as a heat sealer. Prepare an appropriate searing device according to the packages to be used.
Autoclave	Use an autoclave that will operate at the conditions specified in Section 4.5, "Sterilization".

4.3 Cleaning

WARNING

When cleaning, avoid exposure to the reprocessing chemicals. It may pose an infection control risk or cause skin irritation.

CAUTION

- When reprocessing, do not coil the Insertion Portion with a diameter of less than 15 cm. This could damage the Insertion Portion.
- Never use excessive force to open or close the Cups. This could damage the instrument.

Immersion

WARNING

Immerse the instrument in deterge solution immediately after use. If t instrument is not cleaned immediately may be difficult to effectively reproce and this could result in reduc performance.

- When reprocessing the instrument for the first til after purchase, remove the Forceps Cap from t Cups and dispose of it.
- Immerse the entire instrument in the deterge solution for the time specified in manufacture instructions. If no time is specified, immerse between 5 minutes and 3 hours.
- 3. Remove the instrument from the detergent solution

Ultrasonic Cleaning

- 1. Immerse the entire instrument in the ultrasor cleaner containing detergent solution.
- 2. Clean ultrasonically for 30 minutes. For details operation of the ultrasonic cleaner, refer to the instruction manual of the ultrasonic cleaner.
- 3. Remove the instrument from the detergent solution

Rinsing

CAUTION

After ultrasonic cleaning, rinse the instrument thoroughly to remove residual detergent. Residu detergent solution could cause tissi irritation in the next patient.

- Do not forcefully squeeze, wipe or scrub the instrument. This could cause damage to the instrument or result in reduced performance.
- 1. Rinse the instrument under clean running tap water.
- 2. Confirm that no debris is left on the surfaces of the instrument.
- 3. Wipe the exterior of the instrument with a clean, dry lint-free cloth.

4.4 Lubrication

WARNING

When lubricating, avoid exposure to the lubricant. It may pose an infection control risk or cause skin irritation.

- Do not coil the Insertion Portion with a diameter of less than 15 cm. This could damage the Insertion Portion.
- Never use excessive force to open or close the instrument. This could damage the instrument.
- 1. Immerse the Insertion Portion in the lubricant for 2 to 3 seconds.
- 2. Remove the instrument from the lubricant.
- 3. Operate the Slider to open and close the Cups two or three times.
- 4. Wipe the exterior of the instrument with a clean, dry lint-free cloth and allow the instrument to air dry.

4.5 Sterilization

Sealing the Package

WARNING

Before placing the instrument in package, always close the Cu Otherwise they could tear the pack. during sterilization or storage a compromise its sterility, which could p an infection control risk or cause tis irritation.

CAUTION

- · Do not coil the Insertion Portion wi diameter of less than 15 cm. 1 could damage the Insertion Portio
- Never use excessive force to oper close the Cups. This could dam: the instrument.
- 1. Before sterilization, the instrument must thoroughly cleaned and dried. Residual moist inhibits sterilization.
- 2. Coil the Insertion Portion and place the instrumer the package.
- 3. Seal the package. For details on sealing, refer to instruction manual of the package and the sea device.

Steam Sterilization (Autoclaving)

WARNING

biological indicator recommended by your hospita policy and follow the manufacture instructions, all national and lo hospital guidelines, and policies.

- Always leave space between the packages in the autoclave. If the packages are placed too close together, effective sterilization will not be possible.
- Allow the packages to dry within the autoclave using the autoclave's drying cycle (if applicable) or by opening the door of the autoclave and allowing the packages to air dry. Handling a wet package can compromise its sterility.
- Place the sealed package containing the instrument in the autoclave and sterize in accordance with the conditions listed below. For details on operation of the autoclave, refer to the instruction manual for the autoclave or other manufacturer instructions.
- 2. After steam sterilization, let the instrument gradually cool down to room temperature. Sudden changes in temperature may damage the instrument.

NOTE

Autoclavable products have a green reference label. Products that do not have green reference labels are not autoclavable.

Historia de la companya della compan	Temperature	Exposure Time
Prevacuum	132 to 134°C	5 minutes
	(270 to 274°F)	

Table 4.1 Recommended Steam Sterilization(Autoclaving)
Conditions

Chapter 5 Storage

WARNING

- Do not store the instrument in a ste package that is damaged, wet improperly sealed. Otherwise, t sterility of the instrument may compromised and pose an infecti control risk or cause tissue irritation
- Do not store the sterile packag containing the instrument in pla where they will be damaged, wet improperly sealed. Otherwise, t sterility of the instrument may compromised and pose an infecti control risk or cause tissue irritatior

CAUTION

Do not coil the Insertion Portion with diameter of less than 15 cm. This coil damage the Insertion Portion.

5.1 Inspection Before Storage

Prior to storage, inspect the sterile package as follows

Confirm that the sterile package containing the instrume is free from tears, inadequate sealing or water damage if tears, inadequate sealing or water damage is detected repackage and sterilize again as described in Section 4 "Sterilization".

5.2 Storage

Store the instrument in the sterile package at room temperature in a clean and dry environment. Do not store it in direct sunlight. Ensure that the packaged instrument is not crushed by surrounding objects during storage. Follow any additional storage instructions provided by the manufacturer of the sterile package.

OLYMPUS

OLYMPUS OPTICAL CO., LTD.

San-Ei Bulldlng, 22-2, Nishi Shinjuku 1-chome, Shinjuku-ku, Tokyo, Japan Telex: 24209. Fax: (03)3340-2201/2. Telephone: (03)3340-2111.

OLYMPUS OPTICAL CO.(EUROPA) GMBH

(Premises/Goods delivery) Wendenstrasse 14-16, D-20097 Hamburg, Germany (Letters) Postfach 10 49 08, D-20034 Hamburg, Germany. Telephone: (040)237730

OLYMPUS AMERICA INC.

Two Corporate Center Drive, Melville, N.Y. 11747-3157, U.S.A. FAX: (516)844-5442. Telephone: (516)844-5000.

KEYMED LTD

KeyMed House, Stock Road, Southend-on-Sea, Essax SS2 5QH, United Kingdom Telex: 995283. Fax: (01702)465677. Telephone: (01702)616333.

OLYMPUS SINGAPORE PTE LTD

BLK 211, Henderson Road #13-03, Henderson Industrial Park, Singapore 159552 Telex: RS 35249 "OLYSIN". Fax: 2704704. Telephone: 2701351.

OLYMPUS BEIJING REPRESENTATIVE OFFICE

Room No. 3406 Beijing Jing Guang Center, Hu Jia Lou, Chao Yang Qu, Beijing, China Fax: (10)6501-2085. Telephone: (10)6501-2084.

OLYMPUS MOSCOW CORPORATION

117071, Moscow, Malaya Kaluzhskaya 19, bld. 1, fl.2, Russia Fax: (095)958-2277. Telephone: (095)958-2245.

OLYMPUS AUSTRALIA PTY. LTD.

1/104 Ferntree Gully Road, Oakleigh, VIC 3166, Australia Fax: (03)9543-1350. Telephone: (03)9265-5400.

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