

# **USER'S MANUAL**

# **Cassette Type Series**

1 Way cassette:

AVMKH(C)\*\*/AVXC1\*\*/KH(C)\*\*\*EAM/

KH\*\*\*EAV/MH\*\*\*FK\*\*

Slim 1Way cassette:

AVXCS\*\*/SH\*\*\*EAV\*

AVMGH(C)\*\*/AVXC2\*\*/GH(C)\*\*\*EAM

4 Way cassette:

2 Way cassette:

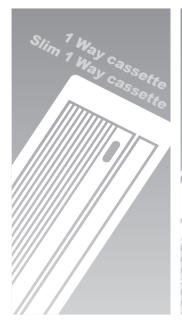
AVMCH(C)\*\*/AVMC4\*\*/AVXC4\*\*/

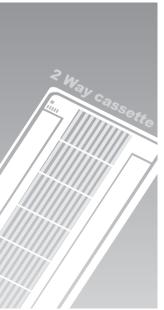
CH(C)\*\*\*EAM\*/CH(C)\*\*\*EZM\*/CH\*\*\*EAV\*

mini 4 Way cassette:

AVXCM\*\*/TH\*\*\*EAV\*/MH\*\*\*FM\*\*

# **System Air Conditioner**







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Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

#### (Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

# Register your product at www.samsung.com/global/register

# **Safety Precautions**

You should take the following safety precautions when using your air conditioner.



- Risk of electric shock can cause injury or death.
- Disconnect all remote electric power supplies before servicing, installing or cleaning.
- Installation must be done by the manufacturer or service agent or a similar qualified person in order to avoid a hazard.

# WHEN INSTALLING



▶ Do not install the air conditioner where there's combustible gas.



Do not install the outdoor unit where there's the risk of dropping such as on high outer wall or outside of the terrace.



► Earth the ground conductor and do not connect it to the gas pipe, water pipe or telephone wire.



Contact the service center if the air conditioner is under water.

## **REGARDING POWER SOURCE**



▶ Do not pull the electric wire or touch the power plug with the wet hands.



Do not bend the electric wire by force or weigh down the air conditioner not to be out of order.



► Install the switch and circuit breaker only for air conditioner.



► Use the power source with separate wiring only for air conditioner.



▶ Use the rated current fuse.



▶ If the power plug is damaged, replace it by the manufacturer or qualified personal to avoid the risk.



### **DURING OPERATION**



▶ Users of this product are cautioned not to attempt repair of this product at their own discretion. Instead, they are requested to directly contact a designated service center or the outlet at which the product was purchased.



 Do not place any obstacles in front of the unit.
 Make sure that the unit is correctly ventilated at all times.
 Do not place clothing or other materials over it.



▶ Do not place any materials so that children cannot step on it.



Never spill any kind of liquid into the unit. Should this happen, unplug or main switch off the unit and contact an authorized service center.



▶ If the wireless remote control is not used for a long time, remove the batteries. (If applicable)



▶ Do not connect the electric heater to the air conditioner or repair it with your discretion.



▶ Do not insert anything between the air outlet blades because the inner fan may be damaged and could cause injury. Keep children away from the unit.



➤ When using a wireless remote control, the distance should not be more than 7m(23ft) from the air conditioner. (If applicable)



# DISPOSING THE UNIT



Before throwing out the device, it is necessary to pull back the battery cells and get rid of them safely for recycling reasons.



▶ When you need to dispose of the unit, consult your dealer. If pipes are removed incorrectly, refrigerant may blow out and come into contact with your skin, causing injury. Releasing refrigerant into the atmosphere also damages the environments.



 Please recycle or dispose of the packaging material for this product in an environmentally responsible manner.



# WHEN INSTALLING



Install the air conditioner avoiding direct sunlight or heater, especially water.



▶ Install the outdoor unit so as to let the discharged air out properly. Avoid a place that may disturb your neighbor by



Install the drain hose to let the water run safely and correctly.



# REGARDING POWER SOURCE



▶ Disconnect the circuit breaker when you don't use the air conditioner for a long time to save energy.



► Contact the service center or manufacturer if you want to repair the air conditioner.



➤ Contact the service center after turning off the air conditioner if strange noise is heard, burning smell or smoke blows.

### **DURING OPERATION**



▶ Do not open the front grille during operation.



Do not use the air conditioner for a long time in a closed room or in a place where there's a baby or an old person.



Avoid cold and hot air reaching to person, pet or a plant directly for a long time.



▶ Do not step on the air conditioner or put heavy object on it.



Avoid the water from getting into the air conditioner.



▶ Do not drink the water from the air conditioner.

# CAUTION

# DURING OPERATION



▶ Do not touch the pipes connected to the air conditioner.



▶ Do not use the air conditioner to maintain the machine, food, pet, plant or cosmetics.



▶ Do not give excessive shock to the air conditioner.

### OTHERS



▶ Be sure that the air filter not to be exposed to direct sunlight.



➤ The appliance is not intended for use by young children or infirm persons without supervision: Young children should be supervised to ensure that they do not play with the appliance.



▶ Do not clean the air conditioner by spraying water directly or with benzene, thinner or alcohol.



▶ Max current is measured

safety and current is

according to IEC standard for

measured according to ISO

standard for energy efficiency.

► The surface of the heat exchanger is sharp, so be careful of it when cleaning.



► Turn off the air conditioner and if the fan stops operating, clean the air conditioner.



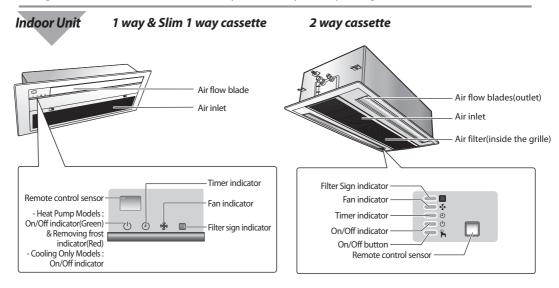
Clean the air filter every 2 weeks.



▶ Be sure to insert the air filter.

# View of the Indoor Unit

The figures are shown in this instruction may differ from yours depending on the model.



#### **Indoor Unit** 4 way & mini 4 way cassette Type A Timer indicator On/Off button On/Off indicator Remote control sensor Fan indicator Removing frost indicator Filter Sign indicator Type B Air flow blades (outlet) Filter Sign indicator ⊃ 🛗 ○ % Fan indicator Air inlet Timer indicator **(** Removing frost indicator Air filter \*^-(under the grille) On/Off indicator டு On/Off button **●** b Remote control sensor Type C Filter Sign indicator ⊃⊞ % Fan indicator Timer indicator **(**) \*<u>\</u> Removing frost indicator — ტ On/Off indicator On/Off button **●** h Remote control sensor

# **Periodical Checks**

Туре	Type Description		Every 4 months	Once a year
	Clean the air filter	• (1)		
	Clean the condensate drain pan (2)			•
Indoor unit	Thoroughly clean the heat exchanger (2)			•
	Clean the condensate drain pipe (2)		•	
	Replace the remote control batteries			•
	Clean the heat exchanger on the outside of the unit (2)		•	
	Clean the heat exchanger on the inside of the unit (2)			•
	Clean the electric components with jets of air (2)			•
Outdoor unit	Verify that all the electric components are firmly tightened (2)			•
	Clean the fan (2)			•
	Verify that all the fan assembly is firmly tightened (2)			•
	Clean the condensate drain pan (2)			•

<sup>\*</sup> The checks and maintenance operations described are essential to guarantee the efficiency of the air conditioner. The frequency of these operations varies according to the characteristics of the area, the amount of dust, etc.

- (1) The described operations should be performed more frequently if the area of installation is very dusty.
- (2) These operations must always be performed by qualified personnel. For more detailed information, see the Installation Manual.

# Protections enabled by the Unit control system

Type of protection	Description	Operation	When it enables
Protection against cold air	tion against cold air The internal fan is off Heating on heat pump		During operation
Defrost cycle	efrost cycle The internal fan is off Hea		During operation
Anti-frost protection of internal battery	The compressor is off	Cooling During operation	
Delayed start of compressor  The start of the compressor is delayed.		Cooling or Heating on heat pump	At start-up or during the selection of the operating mode

CAUTION

If the air conditioner is operating in heat pump mode, it performs several defrost cycles in order to remove the frost that may have deposited on the outdoor unit (at low temperatures). In this case, the internal fan is switched off automatically and restarted only after the defrost cycle is completed.

# **Operating Recommendations**

# Here are a few recommendations that you should follow when using your air conditioner.

Recommendation
The heat pump function of the air conditioner absorbs heat from outside air and brings it indoors. As the temperature of the outside air drops, the heating performance of air conditioner will decrease. If you find that the room is not warm enough, using an additional heating appliance is recommended.
When outside temperature is low but humidity is high, frost may form on the outdoor unit at HEAT mode. If this happens:
<ul> <li>The heating operation stops.</li> <li>The defrost mode will be triggered automatically for about 10 minutes.</li> <li>The steam produced on the outdoor unit in the defrost mode is safe. (Only for Heat pump)</li> </ul>
No intervention is required; after about ten minutes, the air conditioner operates again normally.
If both indoor and outdoor temperatures are high and the air conditioner is running at HEAT mode, the outdoor unit's fan and compressor may stop at times. This is normal; simply wait until the air conditioner switches on again.
If a power failure occurs while the air conditioner is operating, the unit will be switched off. When the power returns, the air conditioner starts up again automatically.
When you use the heat pump model, it is impossible to operate HEAT and COOL mode of several indoor units at the same time.

# **Temperature and Humidity Ranges**

### The following table indicates the temperature and humidity ranges, within which the air conditioner can be used.

If the air conditioner is used at	Then			
High temperature	The automatic protection feature may be triggered and the air conditioner stopped.			
Low temperature	A water leakage or some other malfunction may happen if the heat exchanger freezes.			
High humidity levels	Water may condense on and drip from the surface of the indoor unit if it is used for a long period.			

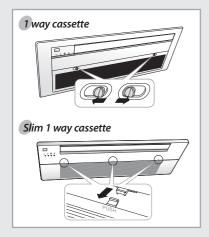
Mode	Outdoor Temperature	Indoor Temperature	Indoor Humidity	Remark
	-20°C/-4°F to 24°C/75°F	27°C/81°F or less		DVM PLUS II, BAC Inverter(UH052/060/070EAV1)
Heating	-5°C/23°F to 24°C/75°F	15°C/59°F to 27°C/81°F		BAC
Heating	-15°C/5°F to 24°C/75°F	27°C/81°F or less	-	Free Joint Multi, DVM, BAC Inverter(UH026/035EAV1)
	-10°C/14°F to 24°C/75°F	27°C/81°F or less		BAC Inverter
	-5°C/23°F to 43°C/109°F	18°C/64 to 32°C/90°F	80% or less	DVM, DVM PLUS II, BAC Inverter
Caaling	-5°C/23°F to 43°C/109°F	21°C/70°F to 32°C/90°F		BAC, Free Joint Multi
Cooling	-10°C/14°F to 43°C/109°F	18°C/64 to 32°C/90°F	80% or less	BAC Inverter(UH026/035EAV1)
	-15°C/5°F to 43°C/109°F	18°C/64 to 32°C/90°F		BAC Inverter(UH052/060/070EAV1)
	-5°C/23°F to 43°C/109°F	18°C/64 to 32°C/90°F		DVM, DVM PLUS II, Free Joint Multi, BAC Inverter
D	-5°C/23°F to 43°C/109°F	21°C/70°F to 32°C/90°F		BAC
Drying	-10°C/14°F to 43°C/109°F	18°C/64 to 32°C/90°F	-	BAC Inverter(UH026/035EAV1)
	-15°C/5°F to 43°C/109°F	18°C/64 to 32°C/90°F		BAC Inverter(UH052/060/070EAV1)

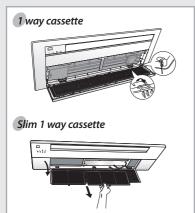
<sup>★</sup> The standardized temperature for heating is 7°C/45°F. If the outdoor temperature drops to 0°C/32°F or below, the heating capacity can be reduced depending on the temperature condition.

If the cooling operation is used at over 32°C/90°F(indoor temperature), it does not cool at its full capacity.

	1 Way cassette	Slim 1 Way cassette	2 Way cassette	4 Way cassette	mini 4 Way cassette
DVM Model	AVMKH(C)**	-	AVMGH(C)**	AVMCH(C)** AVMC4**	-
DVM PLUS II Model	AVXC1**	AVXCS**	AVXC2**	AVXC4**	AVXCM**
BAC Model	KH(C)***EAM	-	GH(C)***EAM	CH(C)***EAM* CH(C)***EZM*	-
BAC Inverter Model	KH***EAV	SH***EAV*	-	CH***EAV*	TH***EAV*
Free Joint Multi Model	MH***FK**	-	-	-	MH***FM**

# **Cleaning Your Air Conditioner**







\* The design and shape are subject to change according to the model.

To get the best possible use out of your air conditioner, you must clean it regularly to remove the dust that accumulates on the air filter.

CAUTITION

Before cleaning your air conditioner, ensure that you have switched off the electric circuit breaker used for the unit.

#### 1 way & Slim 1 way cassette

#### 1 1 way cassette

Open the front grille by pushing the tabs on the grille.

#### Slim 1 way cassette

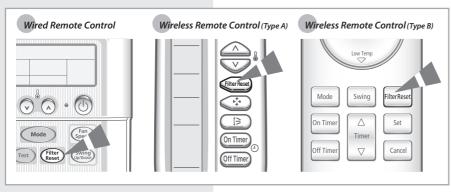
Open the front grille by pushing the [PUSH] tabs located in 3 places and pull out the air filter.

CAUTION

You must give attention when disassembling the front grille and must check the safety clips have been installed. If you do not check them, the front grille will drop suddenly and you will be hurt.

- 2 Remove the front grille.
  - 2-1 Remove the safety clips.
  - 2-2 Open the front grille about 45° and pull it forward.
- 3 Pull out the air filter.
- 4 Remove all dust on air filter with a vacuum cleaner or a brush. In case of serious dust accumulation, put the air filter in warm detergent water and shake it vertically.
- **5** After washing, allow them to dry throughly in an area protected from sunlight.
- **6** When you have finished, insert the filter into the front grille.
- 7 Clean the unit with a vacuum cleaner or a brush once a month.
- **8** Reinstall the front grille and the safety clips.

**Note** After cleaning the air conditioner, press the Filter Reset button.



## 2 way cassette

1 Open the front grille by pushing on both sides and center.

#### CAUTION

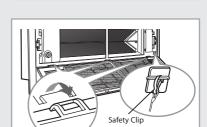
You must give attention when disassembling the front grille and must check the safety clips have been installed. If you do not check them, the front grille will drop suddenly and you will be hurt.

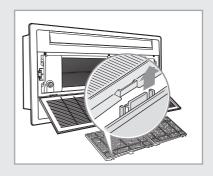
- 2 Remove the front grille.
  - 2-1 Remove the safety clips.
  - 2-2 Open the front grille about 45° and pull it forward.
- 3 Pull out the air filters.
- 4 Remove all dust on air filters with a vacuum cleaner or a brush. In case of serious dust accumulation, put the air filter in warm detergent water and shake it vertically.

When you have installed the Bio-Pure filter, do not allow any liquid to contact the filter. It may lose its properties.

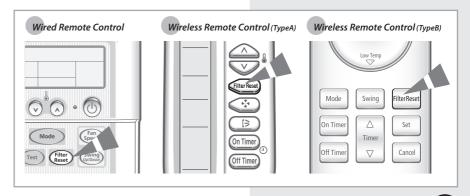
- 5 After washing, allow them to dry throughly in an area protected from sunlight.
- 6 When you have finished, insert the air filters into the front grille.
- 7 Clean the unit with a vacuum cleaner or a brush once a month.
- 8 Reinstall the front grille and the safety clips.

You can use all 2 points of the indoor unit for installing the front grille and the safety clips depending on your requirement.





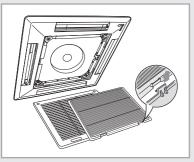
**Note** After cleaning the air conditioner, press the Filter Reset button.



# **Cleaning Your Air Conditioner (Continued)**







\* The design and shape are subject to change according to the model.

# 4 way & mini 4way cassette

1 Open the front grille by pushing on both sides and center.

CAUTION

You must give attention when disassembling the front grille and must check the safety clips have been installed. If you do not check them, the front grille will drop suddenly and you will be hurt.

- 2 Remove the front grille.
  - 2-1 Remove the safety clips.
  - 2-2 Open the front grille about 45° and pull it forward.
- 3 Pull out the air filters.
- 4 Remove all dust on air filters with a vacuum cleaner or a brush. In case of serious dust accumulation, put the air filter in warm detergent water and shake it vertically.

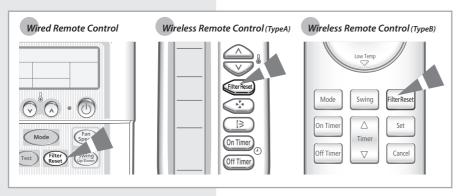
When you have installed the Bio-Pure filter, do not allow any liquids to contact the filter. It may lose its properties.

- **5** After washing, allow them to dry throughly in an area protected from sunlight.
- **6** When you have finished, insert the air filters into the front grille.
- 7 Clean the unit with a vacuum cleaner or a brush once a month.
- 8 Reinstall the front grille and the safety clips.

Note

You can use all 2 points of the indoor unit for installing the front grille and the safety clips depending on your requirement.

 ${\it Note}$  After cleaning the air conditioner, press the Filter Reset button.



# **Solving Common Problems**

Before contacting the after-sales service, perform the following simple checks. They may save you the time and expense of an unnecessary call.

<u>Problem</u>	Explanation/Solution  ◆ Check if power is on and operate the air conditioner again.  ◆ Check if the circuit breaker is switched off.  ◆ Check if Off Timer is set.				
The air conditioner does not operate at all.					
The temperature is not adjusted.	◆ Check if you selected the FAN mode.				
The air conditioner does not operate in the HEAT mode.	<ul> <li>Check if the air conditioner is cooling only model.</li> <li>Check if the remote control is for cooling only model.</li> </ul>				
The cool(warm) air does not come out from the air conditioner.	<ul> <li>Check if set temperature is higher(lower) than current temperature.</li> <li>Check if you selected the FAN mode. Select the COOL, HEAT, AUTO or DRY mode.</li> <li>Check if the air filter is blocked by dirt. Clean the air filter regularly.</li> <li>Check if the there is cover on the outdoor unit or any obstacle. Remove the cover or obstacle.</li> <li>Check if you installed the air conditioner under direct sunlight.</li> <li>The window or door may be opened.</li> <li>Check if you turn on the air conditioner just now. It takes about 3 minutes to cool or heat the room.</li> <li>Check if the refrigerant pipe is too long.</li> </ul>				
The fan speed is not adjusted.	◆ In AUTO or DRY mode, the fan speed is selected automatically.				
The remote controller does not operate.	<ul> <li>Check if the battery is discharged. Replace the battery.</li> <li>Check if the remote controller sensor is blocked.</li> <li>Check if the air conditioner is placed near strong light.</li> </ul>				
The wired remote controller does not operate.	◆ Check if ⑤/ ✓ is displayed on the wired remote controler.  Turn off the air conditioner and switch off the circuit breaker.  Contact the service center.				
The Timer is not set.	◆ Check if you pressed the ௵ button after selecting time.				
The air conditioner does not turn on or off with the wired remote controller.	Check if you set the wired remote controller for group control.				
Odor is permeated in the room during operation	◆ Check if you use the air conditioner in smoky area or there is a smell. Ventilate the room or select the FAN mode for 1~2 hours.				
The indoor unit indicator flashes.	<ul> <li>Press the button to turn on the air conditioner again.</li> <li>Switch the circuit breaker off and switch on it again.</li> </ul>				
Strange sound is heard from the air conditioner.	<ul> <li>The sound is heard when the refrigerant gas flow is changed depending on the use of the air conditioner.</li> <li>When you press the button, noise may be heard from the drain pump inside of the air conditioner.</li> <li>When you press the button, noise may be heard that the air conditioner sense the airflow blade.</li> </ul>				
Water drops from the outdoor unit connection part.	Water may form due to the difference of the temperature.				



# **Contact SAMSUNG WORLD WIDE**

If you have any comments or questions regarding a Samsung product, contact the SAMSUNG customer care center.

Country	Customer Care Center 🖀	Web Site	Country	Customer Care Center 🖀	Web Site
BELGIUM	0032 (0)2 201 24 18	www.samsung.com/be	CANADA	1-800-SAMSUNG (726-7864)	www.samsung.com/ca
	844 000 844		MEXICO	01-800-SAMSUNG (726-7864)	www.samsung.com
CZECH REPUBLIC	Distributor pro Českou republiku:		U.S.A	1-800-SAMSUNG (726-7864)	www.samsung.com
CZECH KEPUBLIC	Samsung Zrt., česka organizační složka Vyskočilova 4, 14000 Praha 4	www.samsung.com/cz	ARGENTINE	0800-333-3733	www.samsung.com/ar
	vyskociiova 4, 14000 Prana 4		BRAZIL	0800-124-421 / 4004-0000	www.samsung.com
DENMARK	70 70 19 70	www.samsung.com/dk	CHILE	800-SAMSUNG (726-7864)	www.samsung.com/cl
FINLAND	030-6227 515	www.samsung.com/fi	NICARAGUA	00-1800-5077267	
EDANCE	3260 SAMSUNG (€0,15/min)		HONDURAS	800-7919267	
FRANCE	08 25 08 65 65 (€0,15/min)	www.samsung.com	COSTA RICA	0-800-507-7267	www.samsung.com/latin
GERMANY	01805 - SAMSUNG	MANAY COMCUMA COM	ECUADOR	1-800-10-7267	www.samsung.com/latin
GERIVIAINT	(726-7864 €0,14/Min)	www.samsung.com	EL SALVADOR	800-6225	www.samsung.com/latin
HUNGARY	06-80-SAMSUNG (726-7864)	www.samsung.com	GUATEMALA	1-800-299-0013	www.samsung.com/latin
ITALIA	800 SAMSUNG (726-7864)	www.samsung.com	JAMAICA	1-800-234-7267	www.samsung.com/latin
LUXEMBURG	0035 (0)2 261 03 710	www.samsung.com/be	PANAMA	800-7267	www.samsung.com/latin
NETHERLANDS	0900-SAMSUNG (726-7864 <b>€</b> 0,10/Min)	www.comcung.com/nl	PUERTO RICO	1-800-682-3180	www.samsung.com/latin
INETHERLANDS		www.samsung.com/nl	REP. DOMINICA	1-800-751-2676	www.samsung.com/latin
NORWAY	815-56 480	www.samsung.com/no	TRINIDAD&TOBAGO	1-800-SAMSUNG (726-7864)	www.samsung.com/latin
POLAND	0 801 801 881	www.samsung.com/pl	VENEZUELA	0-800-100-5303	www.samsung.com/latin
POLAND	022-670-93-33	www.samsung.com/pi	COLOMBIA	01-8000112112	www.samsung.com.co
PORTUGAL	80820-SAMSUNG (726-7864)	www.samsung.com/pt	AUSTRALIA	1300-362-603	www.samsung.com
SLOVAKIA	0800-SAMSUNG (726-7864)	www.samsung.com/sk			
SPAIN	902 10 11 30	www.samsung.com			
SWEDEN	0771-400 200	www.samsung.com/se			
U.K	0845 SAMSUNG (726-7864)	www.samsung.com			
EIRE	0818 717 100	www.samsung.com/ie			
AUSTRIA	0800-SAMSUNG (726-7864)	www.samsung.com/at			
SWITZERLAND	0800-SAMSUNG (726-7864)	www.samsung.com/ch			
RUSSIA	8-800-555-55-55	www.samsung.com			
KAZAKHSTAN	8-10-800-500-55-500	www.samsung.kz			
UZBEKISTAN	8-10-800-500-55-500	www.samsung.uz			
KYRGYZSTAN	00-800-500-55-500				
TADJIKISTAN	8-10-800-500-55-500				
UKRAINE	8-800-502-0000	www.samsung.com			
LITHUANIA	8-800-77777	www.samsung.lt			
LATVIA	800-7267	www.samsung.com/lv			
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