Test Report

DONGGUAN YUESHANG SPORTS TECHNOLOGY CO., LTD.
BUILDING 5,GAOLONG SCIENCE PARK,NO.48,CHUANGXING MIDDLE ROAD,GAOBU TOWN,DONGGUAN CITY GUANGDONG PROVINCE,CHINA

Sample Description	: BICYCLE HELMET
Item No.	: HM005 RUIRUI
Manufacturer	: YUESHANG SPORTS
Supplier	: YUESHANG SPORTS
Country of Origin	: CHINA
Country of Destination	: EUROPE COUNTRIES
Other Info	: BLACK EPS

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

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Size	: 48cm-52cm, 51cm-55cm
HPI (from basic plane)	: 48cm-52cm: 45mm For EN960 495 51cm-55cm: 50mm For EN960 535
Sample Receiving Date	: Jun 15, 2021
Test Performing Date	: Jun 15, 2021 to Jun 29, 2021
Test Performed	: BS EN 1078:2012+A1:2012
Test Result(s)	: For further details, please refer to the following page(s)

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

scan to see the report

GZHL2106024023HM

Lell Wu
Authorized Signatory

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Test Conducted: Based on **BS EN 1078:2012+A1:2012**
Helmets for pedal cyclists and for users of skateboards and roller skates

Number of Tested Sample: 8 piece(s)

Test Results: Details shown as following table

Clause	Test Method/Requirement	Result
4.1	**Materials** For those parts of the helmet coming into contact with the skin, the material used should be known not to undergo appreciable alteration from contact with sweat or with substances likely to be found in toiletries. Materials shall not be used which are known to cause skin disorders.	NT
4.2	**Construction** The helmet normally consists of a means of absorbing impact energy and means of retaining the helmet on the head in an accident. The helmet should be durable and withstand handling. The helmet shall be so designed and shaped that parts of it (visor, rivets, ventilators, edges, fastening device and the like) are not likely to injure the user in normal use. ***NOTE:*** *Helmets should:* *have low weight;* *be ventilating;* *be easy to put on and take off;* *be usable with spectacles;* *not significantly interfere with the ability of the user to hear traffic noise.*	Pass See annex 1
4.3	**Field of vision** When tested in accordance with 5.7 there shall be no occultation in the field of vision bounded by angles as follows (see Figure 1): - horizontally: min. 105° from the longitudinal vertical median plane to the left and right hand sides; - upwards: min. 25° from the reference plane; - downwards: min. 45° from the basic plane.	Pass See annex 4
4.4	**Shock absorbing capacity** The helmet shall give protection to the forehead, rear, sides, temples and crown of the head. When tested in accordance with 5.3 and 5.4 the peak acceleration shall not, for each impact, exceed 250 *g* for the velocity of 5,42 +0.1,-0 m/s on the flat anvil, and 4,57+0.1,-0 m/s on the kerbstone anvil. ***NOTE:*** *These are theoretically equivalent to 1 497 mm and 1 064 mm drop heights respectively.*	Pass See annex 2
4.5	**Durability** After being tested the helmet shall not exhibit damage that could cause significant injury to the wearer (sharp edges, points).	Pass
4.6	**Retention system**	
4.6.1	**General** Means shall be provided for retaining the helmet on the wearer's head. All parts of the retention system shall be securely attached to the helmet.	Pass

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Clause	Test Method/Requirement	Result
4.6.2	**Chin strap** The chin strap shall not include a chin cup. Any chin strap shall be no less than 15 mm wide. Chin straps may be fitted with means of enhancing comfort for the wearer.	Pass
4.6.3	**Fastening device** Any retention system shall be fitted with a device to adjust and maintain tension in the system. The device shall be capable of adjustment so that the buckle does not sit on the jaw bone.	Pass
4.6.4	**Color** No part of the retention system shall be colored green. ***NOTE***: *It is recommended that the opening mechanism be marked with red or orange color.*	Pass
4.6.5	**Strength** When tested in accordance with 5.5, the dynamic extension of the retention system shall not exceed 35 mm and the residual extension shall not exceed 25 mm. For this purpose, extension includes slippage of the fastening device. Damage to the retention system shall be accepted provided that the above requirements are met. ***NOTE:*** In this test, slippage of the fastening device can be measured and recorded separately from other contributions to the extension but this is for information only and is not subject to a separate requirement.	Pass See annex 3
4.6.6	**Effectiveness** When tested in accordance with 5.6 the helmet shall not come off the headform.	Pass
4.6.7	**Ease of release** Following the strength test in accordance with 5.5 and with the load still applied, it shall be possible to open the release system with one hand.	Pass
5.2	**Inspection and determination of mass** Inspect the helmet to ascertain whether it is suitable for its intended purpose and fulfils the general requirements in 4.2. Determine the mass of the helmets of the same size submitted for testing. Calculate and record the mean value in g rounded off to the nearest 10 g, stating the size of the helmet.	Pass See annex 1
6	**Marking**	
	Each helmet shall be marked in such a way that the following information is easily legible by the user and is likely to remain legible throughout the life of the helmet:	Pass
	a. the number of this European standard;	Pass
	b. the name or trademark of the manufacturer;	Pass
	c. the designation of the model;	Pass
	d. the designation, which shall be one or more of the following:-helmet for pedal cyclists, skateboarders or roller skaters;	Pass
	e. the size or size range of the helmet, quoted as the circumference (in centimeters) of the head which the helmet is intended to fit;	Pass

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Clause	Test Method/Requirement	Result
	f. the weight of the helmet (the average mass in g determined according to EN 1078,5.2);	Pass
	g. year and quarter of manufacture;	Pass
	h. a label carrying the instructions –"Warning! This helmet should not be used by children while climbing or doing other activities when there is a risk of strangulation/hanging if the child gets trapped with the helmet"	Pass
	In addition, if the helmet has components made of material which are known to be adversely affected by contact with hydrocarbons, cleaning fluids, paints, transfers or other extraneous additions, the helmet shall carry an appropriate warning.	Pass
	If there is a consumer sales packaging, the information specified in a), b), d), and h) shall also be given on that package. The text shall be of minimum font size 12.	NA
7	**Information supplied by the manufacture**	
	With every helmet clear information in the language of the country of sale shall be given as follows:	Pass
	a. that the helmet can only protect if it fits well and that the buyer should try different sizes and choose the size which feels secure and comfortable on the head;	Pass
	b. that the helmet should be adjusted to fit the user, e.g. the straps positioned so that they do not cover the ears, the buckle positioned away from the jawbone and the straps and buckle adjusted to be both comfortable and firm;	Pass
	c. how the helmet should be positioned on the head to ensure the intended protection is provide (e.g. that it should be placed so as to protect the forehead and not be pushed too for over the back of the head); to protect the forehead and not be pushed too for over the back of the head);	Pass
	d. that a helmet cannot always protect against injury;	Pass
	e. that a helmet subjected to a severe impact should be discarded and destroyed;	Pass
	f. a statement of the danger of modifying or removing any of the original component parts of the helmet other than as recommended by the manufacturer, and that helmets should not be adapted for the purpose of fitting accessories in a way not recommended by the manufacturer.	Pass

Remark:

1. NA = Not applicable.
2. NT = Not tested as per client's request.

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Model: HM005 RUIRUI **Size: 48-52 cm** **Test headform: 495 (EN 960:2006)**

Annex-1: Mass

Mass of the samples:

Sample No.	Mass (g)
1	220
2	218
3	218
4	225
Average	220

Annex-2: Impact energy attenuation test

Test Specification: BS EN 1078:2012+A1:2012-5.4

Ambient temperature at time of test: 22.1 °C

Sample No.	Condition	Test Anvil	Test site	Velocity (m/s)	Peak'G	Result
1	High temperature No recondition (Clause 5.4.2.1)	Kerbstone	Right front	4.59	111.7	Pass
		Flat	Left front	5.45	167.7	Pass
2	Low temperature No recondition (Clause 5.4.2.2)	Flat	Crown	5.48	216.6	Pass
		Kerbstone	Rear	4.60	138.4	Pass
3	Artificial Ageing No recondition (Clause 5.4.2.3)	Kerbstone	Left front	4.63	90.7	Pass
		Flat	Rear	5.42	189.2	Pass

Annex-3: Retention system strength

Test Specification: BS EN 1078:2012+A1:2012-5.5

Ambient temperature at time of test: 22.1 °C

Sample No.	Condition	Dynamic extension (mm)	Residual extension (mm)	Result
2	Low temperature No recondition (Clause 5.4.2.2)	21.6	9.9	Pass
3	Artificial Ageing No recondition (Clause 5.4.2.3)	21.6	9.3	Pass

Annex-4: Field of vision

Test Specification: BS EN 1078:2012+A1:2012-5.7

Horizontal: >105°

Upward: >25°

Downward: >45°

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Model: HM005 RUIRUI **Size: 51-55 cm** **Test headform: 535 (EN 960:2006)**

Annex-1: Mass

Mass of the samples:

Sample No.	Mass (g)
1	227
2	231
3	224
4	228
Average	228

Annex-2: Impact energy attenuation test

Test Specification: BS EN 1078:2012+A1:2012-5.4

Ambient temperature at time of test: 22.1 °C

Sample No.	Condition	Test Anvil	Test site	Velocity (m/s)	Peak'G	Result
1	High temperature No recondition (Clause 5.4.2.1)	Kerbstone	Right front	4.60	126.2	Pass
		Flat	Left front	5.45	157.8	Pass
2	Low temperature No recondition (Clause 5.4.2.2)	Flat	Crown	5.48	197.6	Pass
		Kerbstone	Rear	4.61	146.2	Pass
3	Artificial Ageing No recondition (Clause 5.4.2.3)	Kerbstone	Left front	4.64	92.3	Pass
		Flat	Rear	5.48	187.2	Pass

Annex-3: Retention system strength

Test Specification: BS EN 1078:2012+A1:2012-5.5

Ambient temperature at time of test: 22.1 °C

Sample No.	Condition	Dynamic extension (mm)	Residual extension (mm)	Result
2	Low temperature No recondition (Clause 5.4.2.2)	21.7	10.4	Pass
3	Artificial Ageing No recondition (Clause 5.4.2.3)	20.9	9.3	Pass

Annex-4: Field of vision

Test Specification: BS EN 1078:2012+A1:2012-5.7

Horizontal: >105°

Upward: >25°

Downward: >45°

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Sample Photo(s):

Front view		
Side view		

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Back view		
Top view		

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Bottom view	
Label	Meets EN 1078:2012+A1:2012 Standard **Helmet for pedal cyclists, users of skateboards or roller skaters.** **WARNING** This helmet should not be used by children while climbing or doing other activities when there is a risk of strangulation/hanging if the child gets trapped with the helmet. Use of the optional accessory mount is at the user's own risk. This helmet is certified to EN 1078+A1 02/2013 when tested without optional accessories. Do not apply aggressive cleaning agents, solvents, paints and labels. YUESHANG SPORTS: Building5,Gaolong Science Park, NO.48,ChuangXing Middle Road,GaoBU Town, Dongguan City, Guangdong Province, CHINA MANUFACTURED BY YUESHANG SPORTS. HM005--Ruirui Youth SM 51/55cm 230g CE 3rd quarter 2021 Made in China HM005--Ruirui Youth XS 48/52cm 220g CE 3rd quarter 2021 Made in China

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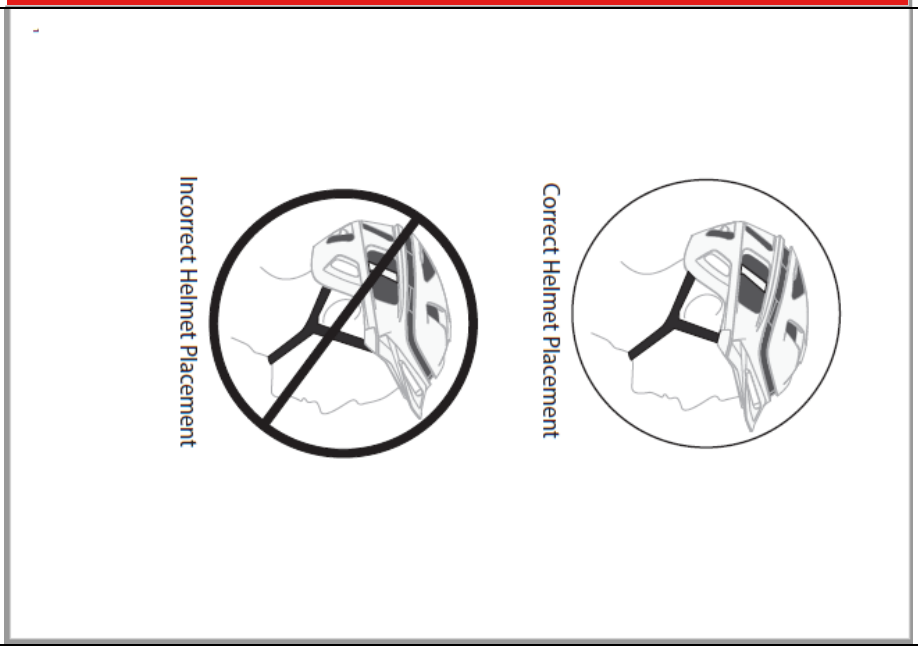
Instruction	

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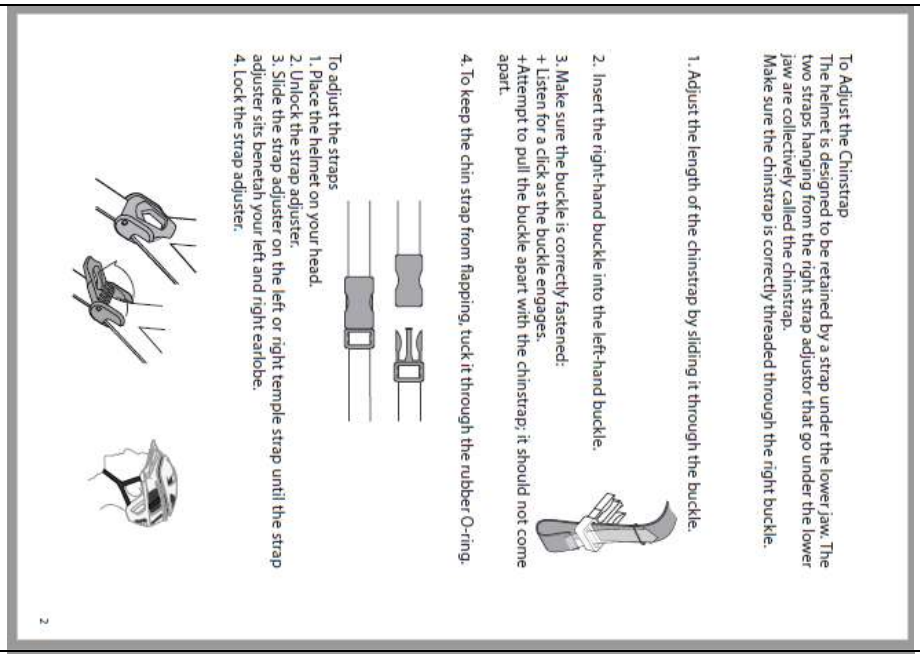
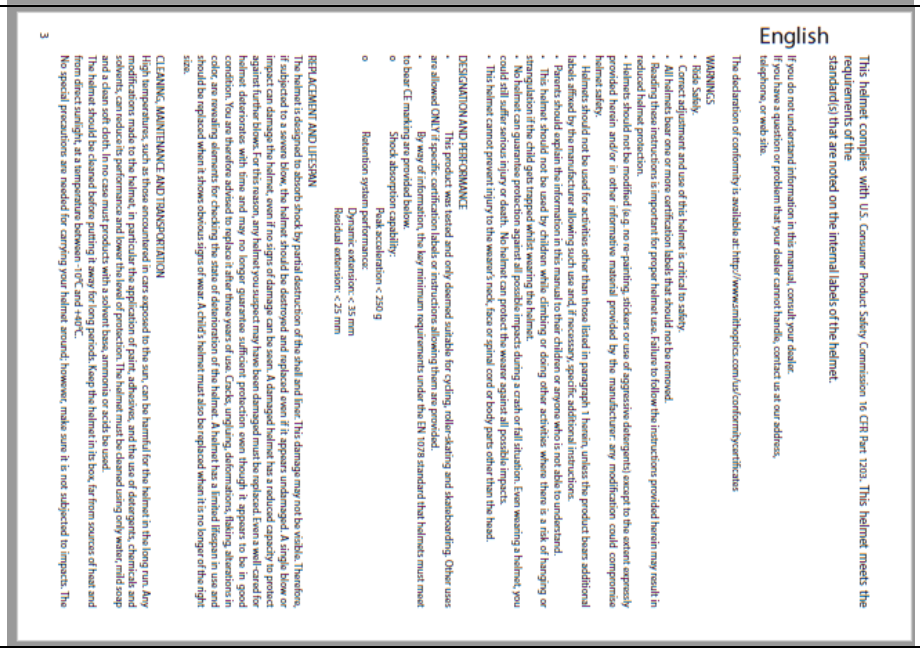
Instruction		
Instruction		

To Adjust the Chinstrap
The helmet is designed to be retained by a strap under the lower jaw. The two straps hanging from the right strap adjustor that go under the lower jaw are collectively called the chinstrap.
Make sure the chinstrap is correctly threaded through the right buckle.

1. Adjust the length of the chinstrap by sliding it through the buckle.

2. Insert the right-hand buckle into the left-hand buckle.

3. Make sure the buckle is correctly fastened:
+ Listen for a click as the buckle engages.
+Attempt to pull the buckle apart with the chinstrap; it should not come apart.

4. To keep the chin strap from flapping, tuck it through the rubber O-ring.

To adjust the straps
1. Place the helmet on your head.
2. Unlock the strap adjuster.
3. Slide the strap adjuster on the left or right temple strap until the strap adjuster sits benetah your left and right earlobe.
4. Lock the strap adjuster.

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English

This helmet complies with U.S. Consumer Product Safety Commission 16 CFR Part 1203. This helmet meets the requirements of the standard(s) that are noted on the internal labels of the helmet.

If you do not understand information in this manual, consult your dealer.
If you have a question or problem that your dealer cannot handle, contact us at: our address, telephone, or web site.

The declaration of conformity is available at: http://www.smithoptics.com/us/conformitycertificates

WARNINGS

- Ride Safely.
- Correct adjustment and use of this helmet is critical to safety.
- All helmets bear one or more certification labels that should not be removed.
- Reading these instructions is important for proper helmet use. Failure to follow the instructions provided herein may result in reduced helmet protection.
- Helmets should not be modified (e.g. no re-painting, stickers or use of aggressive detergents) except to the extent expressly provided herein and/or in other informative material provided by the manufacturer: any modification could compromise helmet safety.
- Helmets should not be used for activities other than those listed in paragraph 1 herein, unless the product bears additional labels affixed by the manufacturer allowing such use and, if necessary, specific additional instructions.
- Parents should explain the information in this manual to their children or anyone who is not able to understand.
- This helmet should not be used by children while climbing or doing other activities where there is a risk of hanging or strangulation if the child gets trapped whilst wearing the helmet.
- No helmet can guarantee protection against all possible impacts during a crash or fall situation. Even wearing a helmet, you could still suffer serious injury or death. No helmet can protect the wearer against all possible impacts.
- This helmet cannot prevent injury to the wearer's neck, face or spinal cord or body parts other than the head.

DESIGNATION AND PERFORMANCE

- This product was tested and only deemed suitable for cycling, roller-skating and skateboarding. Other uses are allowed ONLY if specific certification labels or instructions allowing them are provided.
- By way of information, the key minimum requirements under the EN 1078 standard that helmets must meet to bear CE marking are provided below:
  - Shock absorption capability:
    - Peak acceleration: < 250 g
    - Retention system performance:
      - Dynamic extension: < 35 mm
      - Residual extension: < 25 mm

REPLACEMENT AND LIFESPAN

The helmet is designed to absorb shock by partial destruction of the shell and liner. This damage may not be visible. Therefore, if subjected to a severe blow, the helmet should be destroyed and replaced even if it appears undamaged. A single blow or impact can damage the helmet, even if no signs of damage can be seen. A damaged helmet has a reduced capacity to protect against further blows. For this reason, any helmet you suspect may have been damaged must be replaced. Even a well-cared for helmet deteriorates with time and may no longer guarantee sufficient protection even though it appears to be in good condition. You are therefore advised to replace it after a few years of use. Children's helmets, being generally subject to rapid growth, are rewarding adherents for checking the state of deterioration of the helmet. A helmet has a limited lifespan in use and should be replaced when it shows obvious signs of wear. A child's helmet must also be replaced when it is no longer of the right size.

CLEANING, MAINTENANCE AND TRANSPORTATION

High temperatures, such as those encountered in cars exposed to the sun, can be harmful for the helmet in the long run. Any modifications made to the helmet, in particular the application of paint, adhesives, and the use of detergents, chemicals and solvents, can reduce its performance and lower the level of protection. The helmet must be cleaned using only water, mild soap and a clean soft cloth. In no case must products with a solvent base, ammonia or acids be used.
The helmet should be cleaned before putting it away for long periods. Keep the helmet in its box, far from sources of heat and from direct sunlight, at a temperature between -10°C and +60°C.
No special precautions are needed for carrying your helmet around; however, make sure it is not subjected to impacts. The

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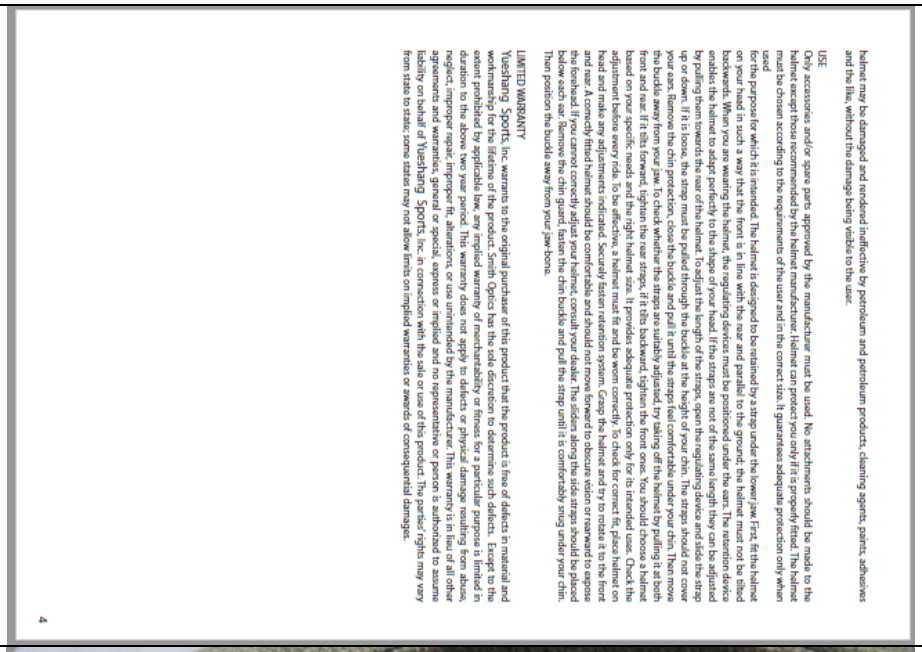
Instruction		
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helmet may be damaged and rendered ineffective by petroleum and petroleum products, cleaning agents, paints, adhesives and the like, without the damage being visible to the user.

USE

Only accessories and/or spare parts approved by the manufacturer must be used. No attachments should be made to the helmet except those recommended by the helmet manufacturer. Helmet can protect you only if it is properly fitted. The helmet must be chosen according to the requirements of the user and in the correct size. It guarantees adequate protection only when used for the purpose for which it is intended. The helmet is designed to be retained by a strap under the lower jaw. First, fit the helmet on your head in such a way that the front is in line with the rear and parallel to the ground; the helmet must not be tilted backwards. When you are wearing the helmet, the regulating devices must be positioned under the ears. The retention device enables the helmet to adapt perfectly to the shape of your head. If the straps are not of the same length they can be adjusted by pulling them towards the rear of the helmet. To adjust the length of the straps, open the regulating devices and slide the strap up or down. If it is loose, the strap must be pulled through the buckle at the height of your chin. The straps should not cover your ears. Remove the chin protection, close the buckle and pull it until the straps feel comfortable under your chin. Then move the buckle away from your jaw. To check whether the straps are suitably adjusted, try taking off the helmet by pulling it at both front and rear. If it tilts forward, tighten the rear straps. If it tilts backward, tighten the front ones. You should choose a helmet based on your specific needs and the right helmet size. It provides adequate protection only for its intended uses. Check the adjustment before every ride. To be effective, a helmet must fit and be worn correctly. To check for correct fit, place helmet on head and make any adjustments indicated. Securely fasten retention system. Grasp the helmet and try to rotate it to the front and rear. A correctly fitted helmet should be comfortable and should not move forward to obscure vision or rearward to expose the forehead. If you cannot correctly adjust your helmet, consult your dealer. The sliders along the side straps should be placed below each ear. Remove the chin guard, fasten the chin buckle and pull the strap until it is comfortably snug under your chin. Then position the buckle away from your jaw bone.

LIMITED WARRANTY

Yueshang Sports, Inc. warrants to the original purchaser of this product that the product is free of defects in material and workmanship for the lifetime of the product. Smith Optics has the sole discretion to determine such defects. Except to the extent prohibited by applicable law, any implied warranty of merchantability or fitness for a particular purpose is limited in duration to the above two year period. This warranty does not apply to defects or physical damage resulting from abuse, neglect, improper repair, improper fit, alterations, or use unintended by the manufacturer. This warranty is in lieu of all other agreements and warranties, general or special, express or implied and no representative or person is authorized to assume liability on behalf of Yueshang Sports, Inc. in connection with the sale or use of this product. The parties' rights may vary from state to state; some states may not allow limits on implied warranties or awards of consequential damages.

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