

EU TYPE EXAMINATION CERTIFICATE

Certificate No: 2163-PPE-797

Respiratory protective devices, filtering half masks to protect against particles manufactured by

Wenzhou Opticar Lighting Co., Ltd.

No. 18-6, Mingshan Road, Kunyang Town, Pingyang County, Wenzhou City, Zhejiang
Province, China

are tested and evaluated according to

EN 149:2001 + A1:2009 Respiratory Protective Devices -Filtering Half Masks to Protect Against Particles -Requirements, Testing, Marking

Based on the type examination conducted with the evaluation of test reports, technical file according to Personal Protective Equipment Regulation (EU) 2016/425 Annex 5, it is approved that the product meets the requirements of the regulation.

Product Definition

Brand Name: KINGYI Model: OP01 Filtering half mask Classification: FFP2 NR

Here by the manufacturer is allowed to use notified body number (2163) and can fix CE mark, as shown below, on the Category III product models given above, with;

- Issuing an appropriate EU Declaration of Conformity according to Personal Protective Equipment Regulation (EU) 2016/425 Annex 9.
- Ongoing successful performance in fulfilment of the requirements set out in Personal Protective Equipment Regulation (EU) 2016/425 and harmonised standards, ensured by assessments based on Annex 7 (Module C2) or Annex 8 (Module D) of the regulation no later than 1 year from the beginning of serial production

This certificate is initially issued on 21/06/2020 and will be valid for 5 years, if there is no change in the relevant harmonised standard affecting the essential health and safety requirements.

CE 2163

Suat KACMAZ
UNIVERSAL CERTIFICATION
Director



TECHNICAL ASSESSMENT REPORT

REPORT DATE / NO: 21.06.2020 / 2163- KKD-797

Manufacturer: Wenzhou Opticar Lighting Co., Ltd.

Address: No. 18-6, Mingshan Road, Kunyang Town, Pingyang County, Wenzhou City, Zhejiang Province, China

This report is for the, given above, manufacturer prepared according to the test results obtained from Jiangsu Quality Supervision and Inspection Center for Special Safety Protection Products accredited by CNAS (China National Accreditation Service), signatory to ILAC MRA, with number L-7901 for the product identified below, dated 14.06.2020 with Serial Id STFWT202015220 based on EN 149: 2001 + A1: 2009 standard and the technical file dated 14 June 2020 Version 01 provided by the manufacturer. The sampling of the product is conducted under our supervision for testing from the manufacturing site of the client.

The technical file of the manufacturer, and risk evaluation against the essential health safety requirements and the test report evaluated for their relation with Essential Requirements of Personel Protective Equipment Regulation and found to be appropriate.

This report is an annex and an integral part of the EU Type Examination Certificate issued to the manufacturer. The test results and issued certificate belongs only to the tested model. The technical report consists of a total of 6 pages.

Product Description: Particle Filtering Half Mask

Classification: FFP2 NR

Trademark: KINGYI Model: OP01







ESSENTIAL HEALTH and SAFETY REQUIREMENTS GIVEN IN EUROPEAN UNION REGULATION EU 2016/425 CORRESPONDING RISKS FOR THE PRODUCT

1.1. Design principles

1.1.1. Ergonomics

PPE must be so designed and manufactured that in the foreseeable conditions of use for which it is intended the user can perform the risk related activity normally whilst enjoying appropriate protection of the highest prossible level. The test resuts with human subjects did not report any problem with the ergonomics of the product.

1.1.2. Levels and classes of protection

1.1.2.1. Highest level of protection possible

The optimum level of protection to be taken into account in the design is that beyond which the constraints by the wearing of the PPE would prevent its effective use during the period of exposure to the risk or normal performance of the activity.

1.1.2.2. Classes of protection appropriate to different levels of risk

Where differing foreseeable conditions of use are such that several levels of the same risk can be distinguished, appropriate classes of protection must be taken into account in the design of the PPE.

1.2. Innocuousness of PPE

1.2.1. Absence of risks and other inherent nuisance factors

PPE must be so designed and manufactured as to preclude risks and other nuisance factors under fore seeable conditions of use. The manufacturer declares in his technical file that according to the results of risk analysis and the material properties they use in the manufacturing, the product has no hazardous content for health.

1.2.1.1. Suitable constituent materials

The materials of which the PPE is made, including any of their possible decomposition products, must not adversely affect the health or safety of users. The material selection is processed in the technical manufacturing process and documented.

1.2.1.2. Satisfactory surface condition of all PPE parts in contact with the user

Any part of the PPE that is in contact or is liable to come into contact with the user when the PPE is worn must be free of rough surfaces, sharp edges, sharp points and the like which could cause excessive irritation or injuries is evaluated and reported in the test report.

1.2.1.3. Maximum permessible user impediment

Any inpediment caused by PPE to movements to be made, postures to be adopted and sensory perception must be minimized; nor must PPE cause movements which endanger the user or other persons.

1.3 Comfort and effectiveness

1.3.1. Adaptation of PPE to user morphology

PPE must be designed and manufactured in such a way as to facilitate its correct positioning on the user and to remain in place for the foreseeable period of use, bearing in mind ambient factors, the actions to be carried out and the postures to be adopted. For this purpose, it must be possible to adapt the PPE to fit the morphology of the user by all appropriate means, such as adequate adjustment and attachment systems or the provision of an adequate range of sizes.

1.3.2. Lightness and design strength

PPE must be as light as possible without prejudicing design strength and efficiency.

Apart from the specific additional requirements which they must satisfy in order to provide adequate protection against the risks in question (see 3), PPE must be capable of withstanding the effects of ambient phenomena inherent under the foreseeable conditions of use

1.4. Information supplied by the manufacturer

The notes that must be drawn up by the former and supplied when PPE is placed on the market must contain all relevant information on:

- a) In addition to the name and addressof the manufacturer and/or his authorized representative established in the Community
- Storage, use, cleaning, maintenance, servicing and disinfection, cleaning, maintenance or disinfectant protection recommended by manufacturers must have no adverse effect on PPE or users when applied in accordance with the relevant instructions;
- c) Performance as recorded during technical tests to check the levels or classes of protection provided by the PPE in guestion;
- d) Suitable PPE accessories and the characteristics of appropriate spare parts;
- e) The classes of protection appropriate to different levels of risk and the corresponding limits of use;
- f) The obsolescence deadlineor period of obsolescence of PPEor certain of its components;
- g) The type of packaging suitable for transport;
- h) The significance of any markings(see 2.12)
- i) Where appropriate the references of the Directives applied inaccordance with Article5(6) (b);
- j) The name, address and identification number of the notified body involved in the design stage of the PPE

These notes, which must be precise and comprehensible, must be provided at least in the official language(s) of the member state of destination

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2. ADDITIONAL REQUIREMENTS COMMON TO SEVERAL CLASSES OR TYPES OF PPE

2.1. PPE incorporating adjustment systems

If PPE incorporates adjustment systems, the latter must be designed and manufactured so that, after adjustment, they do not become undone unintentionally in the foreseeable conditions of use.

2.3. PPE for the face, eyes and respiratory system

Any restriction of the user's face, eyes, field of vision or respiratory system by the PPE shall be minimised.

The screens for those types of PPE must have a degree of optical neutrality that is compatible with the degree of precision and the duration of the

If necessary, such PPE must be treated or provided with means to prevent misting-up.

Models of PPE intended for users requiring sight correction must be compatible with the wearing of spectacles or contact lenses.

2.4. PPE subject to ageing

If it is known that the design performance of new PPE may be significantly affected by ageing, the month and year of manufacture and/or, if possible, the month and year of obsolescence must be indelibly and unambiguously marked on each item of PPE placed on the market and on its packaging.

If the manufacturer is unable to give an undertaking with regard to the useful life of the PPE, his instructions must provide all the information necessary to enable the purchaser or user to establish a reasonable obsolescence month and year, taking into account the quality level of the model and the effective conditions of storage, use, cleaning, servicing and maintenance.

Where appreciable and rapid deterioration in PPE performance is likely to be caused by ageing resulting from the periodic use of a cleaning process recommended by the manufacturer, the latter must, if possible, affix a marking to each item of PPE placed on the market indicating the maxim number of cleaning operations that may be carried out before the equipment needs to be inspected or discarded. Where such a marking is not affixed, the manufacturer must give that information in his instructions. The product is for single use and tested with simulated wearing conditioning.

2.6. PPE for use in potentially explosive atmospheres

PPE intended for use in potentially explosive atmospheres must be designed and manufactured in such a way that it cannot be the source of an electric, electrostatic or impact-induced arc or spark likely to cause an explosive mixture to ignite

2.8. PPE for intervention in very dangerous situations

The instructions supplied by the manufacturer with PPE for intervention in very dangerous situations must include, in particular, data intended for competent, trained persons who are qualified to interpret them and ensure their application by the user.

The instructions must also describe the procedure to be adopted in order to verify that PPE is correctly adjusted and functional when worn by the user.

Where PPE incorporates an alarm which is activated in the absence of the level of protection normally provided, the alarm must be designed and placed so that it can be perceived by the user in the foreseeable conditions of use.

2.9. PPE incorporating components which can be adjusted or removed by the user

Where PPE incorporates components which can be attached, adjusted or removed by the user for replacement purposes, such components must be designed and manufactured so that they can be easily attached, adjusted and removed without tools

2.12. PPE bearing one or more identification or recognition marks directly or indirectly relating to health and safety

The identification or recognition marks directly or indirectly relating to health and safety affixed to these types or classes of must preferably take the form of harmonized pictograms or ideograms and must rem ain perfectly legible throughout the foreseeableuseful life of the PPE. In addition, these marks must be complete, precise and comprehensible so as to prevent any misinterpretation; in particular, where such marks incorporate words or sentences, the latter must appear in the official language(s) of the Member State where the equipment is to be used.

If PPE (or a PPE component) is too small to allow all or part of the necessary marking to be affixed, the relevant information must be mentioned on the packing and in the manufacturer's notes.

3. ADDITIONAL REQUIREMENTS SPECIFIC TO PARTICULAR RISKS

3.10.1. Respiratory protection

PPE intended for the protection of the respiratory system must make it possible to supply the user with breathable air when exposed to a polluted nosphere and/or an atmosphere having an inadequate oxygen concentration.

The breathable air supplied to the user by PPE must be obtained by appropriate means, for example after filtration of the polluted air through PPE or by supply from an external unpolluted source.

The constituent materials and other components of those types of PPE must be chosen or designed and incorporated so as to ensure appropriate user respiration and respiratory hygiene for the period of wear concerned under the foreseeable conditions of use.

The leak-tightness of the facepiece and the pressure drop on inspiration and, in the case of the filtering devices, purification capacity must keep contaminant penetration from a polluted atmosphere low enough not to be prejudicial to the health or hygiene of the user The PPE must bear details of the specific characteristics of the equipment which, in conjunction with the instructions, enable a trained and qualified user

to employ the PPE correctly. In the case of filtering equipment, the manufacturer's instructions must also indicate the time limit for the storage of new filters kept in their original

packaging.

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Technical Assessment of EN 149: 2001 + A1: 2009 Standard and other Standards it refers to, Clauses Corresponding to the (EU) 2016/425 Regulation, Essential Health and Safety Requirements given above.

	Classifications Pastio	a Eiltonina Half Man	l.	Control Control Control	William Commission Commission Commission Commission Commission Commission Commission Commission Commission Com		
Article 5	Classification: Particle Filtering Half Mask The mask subject to evaluation based on the test results and technical file provided by the manufacturer is classified as; Filtering Efficiency and maximum Total Inward Leakage: Classified as FFP2 Mask is classified for single shift use, NR						
Article	Packing: Particle filtering half masks are packaged to protect them from contamination before use and with cardboard boxes to preven mechanical damage, the masks are in plastic sealed bags in the card box. The packaging design and the product is considered to withstand the foreseeable conditions of use based on the visual inspection results given in the test report.						
Article 7.5	Material: Materials understood it withstan failure of the facepie nuisance for the wear and safety of users. Based on the test res	sed in particle filteri ds handling and wea ce or straps, any ma er. The manufacturer ults, the masks did r	ng half masks, according r over the period for which terial from the filter me- declares that the material	to the simulated th the particle filte dia released by the s used in manufact	wearing treatment and tempering half mask is designed to the air flow through the filter cturing of the mask does not	erature conditioning results; It to be used, it suffered mechanic r has not constitute a hazard have an adverse affect the heal ioning. No nuisance situation	
Article 7.6	Cleaning and Disinfection: Particle filtering half mask is not designed to be as re-usable. No cleaning or disinfection procedure provided by the manufacturer.						
Article 7.7	masks, in walking ter security of fastenings issues.	st or work simulatio	n tests. The wearers did	not report any fa	Requirements in acc 149:2001 + A1:20	009 and Result	
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	5.Field o Conditioning: (A.R.)		al 2	0	No imper	fections	
Article 7.8	Finish of Parts: The test report states that the particle filtering half masks, which are likely to come into contact with the user, do not have she edges and do not contain burrs.						
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Article	Temperature conditio for each excersize are It was reported that: The 47 out of 50 exen At least 9 of 10 indivi Penetration of filter Condition (A.R.) (A.R.) (A.R.) (S.W.) (S.W.) (S.W.) (M.S. T.C.)	ning and as received available in the test is seen measurement residual's arithmetic me According to the rematerial: Sodium Cl No. of Sample 19st 20st 21st 22st 24st 25st 26st 19st 26st 26st 19st 26st 26st 26st 26st 26st 26st 26st 26	The face dimensions of report. utlist are smaller or equal to 8 ported results, the produloride Testing Sodium Chloride Testing Sodium Chloride Testing 1.02 1.09 1.17 1.28 1.21 1.34 1.39 1.44	to 11%, 19%, uct meets the lim	also reported. The measurent its for FFP1 and FFP2 class quirements in accordance with EN 149:2001 + A1:2009 $FFP1 \leq 20 \%$ $FFP2 \leq 6 \%$	ning required in the standard nent details for each subject an sification. The Result Filtering half masks fulfill d requirements of the standar EN EN 149:2001 + Al:200 given in 7.92 in range of the	
Article	Temperature conditio for each excersize are It was reported that; The 47 out of 50 exert At least 9 of 10 indivition of filter Condition (A.R.) (A.R.) (A.R.) (S.W.) (S.W.) (M.S. T.C.)	ning and as received available in the test is seem easurement residual's arithmetic med According to the rematerial: Sodium Cl No. of Sample 194 204 214 224 234 244 254 264 277	The face dimensions of report. sults are smaller or equal to 8 ported results, the prod hloride Testing Sodium Chloride Testing Sodium Chloride Testing 1,02 1,09 1,17 1,28 1,21 1,34 1,39 1,44 1,49	to 11%, 19%, uct meets the lim	also reported. The measurent its for FFP1 and FFP2 class quirements in accordance with EN 149:2001 + A1:2009 $FFP1 \leq 20 \%$ $FFP2 \leq 6 \%$	ning required in the standard nent details for each subject a sification. The Result Filtering half masks fulfill d requirements of the standar EN EN 149:2001 + Al:200 given in 7.92 in range of the	





	Penetrat	ion of filter	material:	Paraffin Oil Tes	sting					
		Condition		No. of Sample			Requirements in accordance with EN 149:2001 + A1:2009		Result	
Article		(A.R.)		28#	28# 2.33					
		(A.R.)		29♯	2.48					
		(A.R.) (S.W.) (S.W.)		30# 2.5	2,55		FFP1 ≤ 20 %	Filtering h	alf masks fulfill the	
				31#	2.63		FFP2 ≤ 6 %	requirements of the standard EN EN 149:2001 + A1:2009		
				32#	2.69					
.9.2		(S.V	V.)	33#	2.77				.9.2 in range of the	
		(M.S.		34#	2.89		FFP3 ≤ 1 %		FFP2 classes.	
		(M.S.	r.C.)	35#	2.94		VALUE OF THE PARTY			
		(M.S.	T.C.)	36♯	3.04					
	Conditio	ning: (M.S	.) Mechanic	al Strength						
				ure Conditioning						
				ved, original						
				d wearing treatm	one					
Article 7.10	Compati adverse e	bility with	skin: In Pra lth was not	ctical Performan reported. (No ne	ce report, the likel gative reporting or	thood of mask ma practical perform	terials in contact with the nance and TIL test results	skin causii	ng irritation or other	
	Flammal	bility:		4	3.1 20 10 10 10 10 10 10 10 10 10 10 10 10 10					
		ondition	No. of Sample	Vis	Visual inspection		Requirements in accordance with E 149:2001 + A1:2009		N Result	
Article		(A.R.)	37# 38#		Didn't burn		Filtering half mask		Passed	
7.11		(A.R.)			Didn't burn		shall not burn or not		Laboratory claims that the	
.11		(T.C.)			Didn't burn Didn't burn		continue to burn for more than 5 s after		tested items did not burn for 5 seconds and fulfils the	
		(T.C.)		I I						
		Conditioning: (A.R.) As Received, original								
	Carbon			ure Conditioning inhalation air:						
Article	Conditi	ion	No. of Sample		the inhalation air volume	An average CO ₂ content of the inhalation air	Requirements in accord EN 149:2001 + A1		Result	
7.12	(A.)	R)	41#	0,5	54			to de la constant	Passed	
	(A.		42#	0.5			CO2 content of the inha		Filtering half masks	
	(A.)		43#	0,5	-	0,55 [%]	0,55 [%] shall not exceed an aver 1,0% by volume		rage of fulfil requirements the standard	
	Conditio	ning: (A.R) As Receiv	ved, original						
Article 7.13					test reports no ad ss are capable of h		been reported for donnin	g and rem	ove of the mask also th	
Article 7.14	Field of y	vision: In Pr	actical Perf	ormance report,	no adverse effects	were reported for	the field of vision availab	ility when	the mask is weared.	
Article 7.15	Exhalatio	on Valve(s)	: The mode	I under inspection	n have no valves.					
Article 7.16	The over treatment	complies v	on of the r	esults gathered t its given in the s	tandard for FFP1,	FFP2 and FFP3	red, 3 with temparature classes. This is valid for sted are available in the te	inhalation		



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Article 7.17	Clogging: This test is not applied to Particle Filtering Half Mask which is not reusable, (For single shift use devices, the clogging test is optional test. For re-usable devices test is mandatory.)
Article 7.18	Demountable Parts: There are no demountable parts of the mask.
Article 8	Testing: All tests conducted according to Clause 8 of this standard is available in the test report and are evaluated in this report for qualification and classification of the mask.
	Marking – Packaging: Necessary markings are available on the product package (box). The manufacturer and its trademark is clearly visible. The type of the mask and the classification including the status of re-usability, the reference to EN 149-2001+Al:2009 standard, the end date of shelf life, using and storage instructions and pictograms and CE mark are available on the product package. The above evaluation is based on the technical document for packaging and marking, for box design. Verified on the Annex 9.1 of the technical file.
Article 9	The technical documentation for mask design (drawing) also evaluated for marking requirements, drawing OP01. The mask template (drawing) indicates that the mask will carry information about the manufacturer / trademark (RINGYI) of the manufacturer, Type of mask, the reference to EN 149-A1-2009 standard and classification including the re-usability of the mask. The manufacturer also printed CE mark with our Notified Body number. The mask do not have sub-assemblies. Even the tested sample by the laboratory do not carry necessary marking information as stated in the technical documentation, the manufacturer shall follow marking instructions for serial production. Model drawing OP01 exists in the technical file of the manufacturer, Annex 6 of technical file.
Article 10	Information to be supplied by the manufacturer: In each of the smallest commercially available packaging of the product, implementation (installation instructions) pre-use controls, warning and usage limitations, storage and meanings of symbols / pictograms are defined. User instruction document in the technical file found to be appropriate. The manufacturer shall include this documented user information text in every smallest commercially available package, Annex 8 of Technical file.

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