

Verify the validity with the QR code



EU TYPE EXAMINATION CERTIFICATE

Certificate No: 2163-PPE-1732

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

JIANGMEN YANYANG TRADING CO., LTD

No. 1, 4th Floor, Building 2, No.18 Xinyi Road, Jianghai District, Jiangmen City, Guangdong 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

Single shift use particle filtering half mask for protection against solid and liquid aerosols, is a folding type, 5 layers cotton and polypropylene fabrics, without valve, fitted with ear loops, with internal nose clip and inside sponge strip.

Brand Name: CRDLIGHT Model: YYC1028 Classification: FFP2 NR Model have white, black, grey, pink, and blue versions

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 04/12/2020 and will be valid for 5 years, if there is no change in the relevant harmonised standard affecting the essential health and safety requirements.

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Suat KAÇMAZ UNIVERSAL CERTIFICATION Director



TECHNICAL ASSESSMENT REPORT

REPORT DATE / NO: 04.12.2020 / 2163-KKD-1732

Manufacturer: JIANGMEN YANYANG TRADING CO., LTD

Address: No. 1, 4th Floor, Building 2, No.18 Xinyi Road, Jianghai District, Jiangmen City, Guangdong Province, China This report is for the, given above, manufacturer, prepared according to the test results obtained from Jiangsu Guojian Testing Technology Co. Ltd. accredited by CNAS (Chinese Accreditation Body), signatory to ILAC MRA, with number CNAS L10118 for the product identified below, dated 23.11.2020 with Serial Id 2020-WSZ FHL No.8631 based on EN 149: 2001 + A1: 2009 standard and test reports on the material safety by means of toxic, carcinogen, irritationg and sensitivity evaluation.

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: Single shift use particle filtering half mask for protection against solid and liquid aerosols, is a folding type, 5 layers cotton and polypropylene fabrics, without valve, fitted with ear loops, with inside nose bridge.

Component and Materials:

Component	Material	Grade / Size
1st layer (Outer)	Non-Wowen Fabric	50 g/m ² (±5 g/m ²)
2nd layer	Melt-blown - non-wowen fabric	25 g/m ² (±5 g/m ²)
3rd layer	Melt-blown - non-wowen fabric	25 g/m ² (±5 g/m ²)
4th layer	Hot Air cotton	25 g/m ² (±5 g/m ²)
5th layer (Inner)	Non-Wowen Fabric	25 g/m² (±5 g/m²)
Internal Nose Clip	Polypropylene	52 mm (±5 mm)
Ear Loop	Polyester + Cotton	23 cm (±1 cm)
Sponge Strip	Polyurethane	120 mm (±1 mm)
Plastic Clip	Polypropylene	50 mm (±1 cm)

Classification: FFP2 NR

Brand Name: CRDLIGHT Model: YYC1028

Colored samples of the mask





THE CLAUSES OF EN 149: 2001 + A1: 2009 STANDARD RELATED TO EUROPEAN UNION DIRECTIVE **EU 2016/425 REQUIREMENTS**

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.

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.

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.

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

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.

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:

- 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;
- Performance as recorded during technical tests to check the levels or classes of protection provided by the PPE in guestion;
- 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;
- The obsolescence deadlineor period of obsolescence of PPEor certain of its components; f)
- The type of packaging suitable for transport; g)
- h) The significance of any markings(see 2.12)
- Where appropriate the references of the Directives applied inaccordance with Article5(6) (b);
- 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 activities of the user.

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 maximum 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.

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

3.10.2. Protection against cutaneous and ocular contact

PPE intended to prevent the surface contact of all or part of the body with substances and mixtures which are hazardous to health or with harmful biological agents must be capable of preventing the penetration or permeation of such substances and mixtures and agents through the protective integument under the foreseeable conditions of use for which the PPE is intended.

To this end, the constituent materials and other components of those types of PPE must be chosen or designed and incorporated so as to ensure, as far as possible, complete leak-tightness, which will allow where necessary prolonged daily use or, failing this, limited leak-tightness necessitating a restriction of the period of wear.

Where, by virtue of their nature and the foreseeable conditions of their use, certain substances and mixtures which are hazardous to health or harmful biological agents possess high penetrative power which limits the duration of the protection provided by the PPE in question, the latter must be subjected to standard tests with a view to their classification on the basis of their performance. PPE which is considered to be in conformity with the test specifications must bear a marking indicating, in particular, the names or, in the absence of the names, the codes of the substances used in the tests and the corresponding standard period of protection. The manufacturer's instructions must also contain, in particular, an explanation of the codes (if necessary), a detailed description of the standard tests and all appropriate information for the determination of the maximum permissible period of wear under the different foreseeable conditions of use.

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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 Directive

			(EC) 2010/423 D	nective	1 1
1			49;2001+1A1120		mirranicity.
Article 5	The mask subj	Particle Filtering Half Mase ect to evaluation based on the ency and Maximum Total In ied for single shift use, NR	e test results and techn		the manufacturer is classified as;
Article 7.4	Packing: Particle filtering half masks are packaged to protect them from contamination before use and with cardboard boxes to prevent mechanical damage. The packaging design and the product is considered to withstand the foreseeable conditions of use based on the vision inspection results given in the test report. Details given in Annex 5 of Technical File				
Article 7.5	Material: Mat understood it v failure of the nuisance for th health and saf Technical File. Based on the reported during The model hav Based on the (Pink) prepared Co., Ltd., SDS	erials used in particle filteri vithstands handling and wea facepiece or straps, any ma he wearer. The manufacture, ety of users. Manufacturer est results, the masks did in the practical performance to the colored ones manufacture test results in the test repo d by STC (Dongguan) Comp	ng half masks, according to ver the period for what terial from the filter in declares that the mate declares that the mate declares that the mate to the collapse when subjects by human subjects by human subjects do by use of colored spirts, Report numbers Doany Limited and Repo	ng to the simulated which the particle filter ledia released by the trials used in manufarial do not have any let to simulated wear least to simulated wear least	vearing treatment and temperature conditioning resign half mask is designed to be used, it suffered more air flow through the filter has not constitute a lacturing of the mask does not have an adverse affer adverse effect for the wearers health in Section ring and temarature conditioning. No nuisance sit the most outer layer of the mask, with the earloops DC20110368 (Blue), DC20110370 (Grey), DC2 102588-6EN (white) prepared by TST Testing Ter (spunbound fabric) used in the most outer layer of sks.
Article 7.6					able. No cleaning or disinfection procedure provide
Article					Requirements in accordance with EN 149:2001 + A1:2009 and Result
	2. 3. 4. 5.	The face piece fitting Head harness comfort Security of fastenings Speech clearness Field of vision	2 2 2 2 2 2	0 0 0	Positive results are obtained from the performance tests related to the implementation under real conditions, applied with the compatibility with skin evaluation (7.10).
	w	Materials compatibility ith skin : (A.R.) As Received, origin	al 10	10	No imperfections
Article	1.00			o come into contact	with the user, do not have sharp edges and do no
Ell	conduction of	ard Leakage test is conduct the excercises defined in th	e standard. The sample	es used in the test ar	er with a walking band, and samples are taken do e subjected to the conditioning required in the sta
Article 1.9.1	It was reported All 50 exercise	are available in the test report that; measurement results are sm	rt. naller or equal to 11%,	According to the resu	reported. The measurement details for each subject
11/2	All 10 individu			- 4	the means for 10 subject varies between 0,8 % to 2 s for FFP1 and FFP2 classification.
1		- 43		11	

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	Penetration of file	ter material: So	odium Chloride Testing		0.5		A		
1	Condition	No. of Sample	0511		equirements in accordance EN 149:2001 + A1:2009		Result		
	(A.R.)	- Cumpic	0,1			All			
	(A.R.)	-	0,2			Filteri	ng half masks fulfil		
	(A.R.)	-	0,1		FFP1 ≤ 20 %	reani	rements of the stand		
ticle	(S.W.)	-	0,2				N 149:2001 + A1:2		
9.2	(S.W.)	-	0,1		FFP2≤6%		in 7.9.2 in range of		
	(S.W.)	-	0,2		-	first,	and second protec		
	(M.S. T.C.) (M.S. T.C.)		0,6		FFP3 ≤ 1 %		classes.		
1	(M.S. T.C.)		0,5			l P	FP1, FFP2, FFP3		
	Conditioning: (M	Conditioning: (M.S.) Mechanical Strength				95 L/r	min = 1,6 dm ³ .sn ⁻¹		
	(A	.R.) As Receive	d, original			-	11		
·	(S. Penetration of filte		wearing treatment				2		
1	Cited attor of file	material Fa	N A			1			
5	1	dition	No. of Paraffin Oil 7 Sample 95 L/min ma		quirements in accordance n EN 149:2001 + A1:2009	F	Result		
	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM	L.R.)	0,2				(1)		
		(.R.)	- 0,3			Filtering ha	If masks fulfill the		
	100000000000000000000000000000000000000	(.R.)	- * 0,2		FFP1 ≤ 20 %	requiremen	its of the standard		
rticle	The state of the s	.W.)	- 0,3	<u></u>			2:2001 + A1:2009		
9.2	A STATE OF THE PARTY OF THE PAR	.W.) .W.)	- 0.2		FFP2 ≤ 6 %		iven in 7.9.2 in range of the first and second protection classes. FFP1, FFP2, FFP3		
		3. T.C.)	- 0,3		FFP3 ≤ 1 %				
		. T.C.)	- 0,6		FFF3 ≤ 1 76				
		. T.C.)	- 0,8		F		FF1, FFF2, FFF3		
	Conditioning : (M.								
	The state of the s	(T.C.) Temperature Conditioning							
		R.) As Received		- 0					
			earing treatment				1		
ticle	Compatibility with	skin. In Practic	cal Performance report, the likeli	hood of mack ma	sterials in contact with the s	rin concina	imitation on other		
10	adverse effect on he	alth was not rep	orted.	A DI MASK III	nerials in contact with the si	Kiii Causing	irritation of other		
	Flammability:				****				
	Condition	Condition No. of Sample		Requirer	Requirements in accordance with EN		Result		
	(A.R.)	Sample	0,4s		149:2001 + A1:2009 Filtering half mask shall not burn or not		Passed		
ticle	(A.R.)	. 3	0,4s						
11	in the state of th	(T.C.)			continue to burn for		Filtering half masks fulfi		
3	(T.C.)	-	0,5s		more than 5 s after		uirements of the		
3			0,4s	re	moval from the flame		standard		
	Conditioning : (A.F								
	Carbon dioxide cor	C.) Temperature		1					
-1		rear or the min		An average	1				
	Condition	No. of C	O2 content of the inhalation air	CO ₂ content of	Requirements in accorda	nce with	Darrit		
1 1	Condition	Sample	[%] by volume	the inhalation	EN 149:2001 + A1:2		Result		
ticle	(A D)		0.6022	air	(15)				
2	(A.R.) (A.R.)	-	0,6827 0,6813		11-1-		Passed		
	(A.K.)		0,0813	Bours	CO2 content of the inhal		Filtering half mas		
	(A.D.)	-	0.6810	0.68	shall not exceed an ave		fulfill		
	(A.R.)		0,6810	2.	1,0% by volume	- 1	requirements of t		
	Conditioning: (A.R	C) As Received	original	1		1	standard		
tials			()			1			
ticle 13	Head harness: In P	ractical Perform	nance and TIL test reports no ad	verse effects hav	e been reported for donning	and remo	ve of the mask also		
(0)	results of these tests	indicates that th	ne head harnesses are capable of	holding the mask	firmly enough.				
					-11				
ticle	Field of vision: In P	ractical Perform	nance report, no adverse effects v	vere reported for	the field of vision availabili	ty when the	e mask is weared.		
in the same of the		4		3//	12		1-1		
in the same of the							1 1 3		
and the same of th									
ticle 14	Breathing Resistan	ce: Inhalation		(1	1		
14	Breathing Resistan	A CONTRACTOR OF THE PARTY OF TH	es gathered for 9 different sample	es 3 as received	. 3 with temparature condit	tioning and	3 Ssimulated wes		
4	Breathing Resistant	on in the figure	es gathered for 9 different samples given in the standard for FFP	es 3 as received	, 3 with temparature conditions is valid for i	tioning and	3 Ssimulated wea		
and the same of th	Breathing Resistant	on in the figure	es gathered for 9 different samples given in the standard for FFP1	es 3 as received , FFP2 and FFP3	, 3 with temparature condit 3 classes. This is valid for i	tioning and	3 Ssimulated wea		
ticle	Breathing Resistant The overall evaluation	on in the figure	es gathered for 9 different samples given in the standard for FFP1	es 3 as received , FFP2 and FFP3	, 3 with temparature condit 3 classes. This is valid for i	tioning and	3 Ssimulated wea		
ticle	Breathing Resistant The overall evaluation	on in the figure	es gathered for 9 different samples given in the standard for FFP1	les 3 as received , FFP2 and FFP:	, 3 with temparature condit 3 classes. This is valid for i	tioning and	3 Ssimulated were esults for 30 L/min		

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Article 7.17.2	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 7.17.3	Penetration of filter material: This test is not applied to Particle Filtering Half Mask which is not reusable.
Article 7.18	Demountable Parts: There are no demountable parts on the product.
Article	Marking – Packaging: Necessary markings are available on the product package (box). The name and trademark of the manufacturer is stated to exist on the carton boxes. The type of the mask and the classification including the status of re-usability, the reference to EN 149:2001+A1:2009 standard, the year of end 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 and annex 6 of the technical file. The technical documentation for mask design (drawing) also evaluated for marking requirements, drawing Annex 6. The mask template
C	(drawing) indicates that the mask will carry information about the brandname 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 samples by the laboratory do not carry necessary marking information as stated in the technical documentation, the manufacturer shall follow marking instructions for serial production. CRD-F-001 drawing which exists in the technical file of the manufacturer. Amex 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, Annex 8. The manufacturer shall include this documented user information text in every smallest commertially available package.

PREPARED BY	APPROVED BY
Osman CAMCI PPE Expert	Suat KACMAZ Director
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