

ECE TYPE-APPROVAL CERTIFICATE



Communication concerning: ~~Approval granted~~
 ~~Approval extended~~
 ~~Approval refused~~
 ~~Approval withdrawn~~
 ~~Production definitively discontinued~~

of a type of ~~front position lamps, rear position lamps, stop lamps, direction indicators and rear registration plate~~ illuminating devices for mopeds, motor cycles and vehicles treated as such pursuant to Regulation No. 50.

Approval No: **E24 50R-000150**

Extension No: *N/A*

1. Trade name or mark of the device: ***Rizoma***
2. Manufacturer's name for the type of device: ***FR120***
3. Manufacturer's name and address: ***Tong Yah electronic technology Company Limited
No.406 Ding-Ann street Annan district,
Tainan,Taiwan R.O.C.***
4. If applicable, name and address of manufacturer's representative: *N/A*
5. Submitted for approval on: ***07.03.2017***
6. Technical service responsible for conducting approval tests: ***TÜV SÜD Auto Service GmbH
Westendstraße 199
D-80686 München***
7. Date of test report issued by that service: ***11.01.2017***
8. Number of report issued by that service: ***17-00034-CX-SHA-00***

9. Concise description¹:

By category of lamp:

Front and Rear direction indicator

Colour of light emitted (~~red/white~~/amber):

Amber

Number and category(ies) of light source(s):

1*LED

Light source module: ~~yes~~/no²

No

Light source module specific identification code:

N/A

Geometrical conditions of installation and relating variations, if any:

See manufacturer's information document

Application of an electronic light source control gear/variable intensity control:

(a) Being part of the lamp: ~~yes/no~~/not applicable:

N/A

(b) Being not part of the lamp: ~~yes/no~~/not applicable:

N/A

Input voltage(s) supplied by an electronic light source control gear/variable intensity control:

N/A

Electronic light source control gear/variable intensity control manufacturer and identification number (when the light source control gear is part of the lamp but is not included into the lamp body):

N/A

Only for limited mounting height of equal to or less than 750mm above the ground: ~~yes~~/no²

No

Function(s) produced by an interdependent lamp forming part of an interdependent lamp system:

Front position lamp: ~~yes~~/no²

No

Rear position lamp: ~~yes~~/no²

No

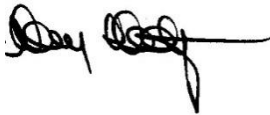
Stop lamp: ~~yes~~/no²

No

¹ For the purpose of this Regulation "being part of the lamp" means to be physically included in the lamp body or to be external, separated or not, but supplied by the lamp manufacturer as part of the lamp system. The functioning and installation conditions of these additional systems will be defined by special provisions."

Approval No: **E24 50R-000150**

Extension No: *N/A*

10. Position of the approval mark: *On the lens*
11. Reason(s) for extension (if applicable): *N/A*
12. Approval granted/extended/refused/withdrawn: *Granted*
13. Place: *Dublin*
14. Date: *15th March, 2017*
15. Signature: 



16. The list of documents deposited with the Administrative Service which has granted approval, is annexed and may be obtained on request.

Index to the Information Package

Date of issue: *15th March, 2017*

Date of latest amendment: *N/A*

Reason for extension/revision: *N/A*

1. Additional conditions, and advisory notes on legal alternatives.

2. Test report(s)

- numbers(s): *17-00034-CX-SHA-00*

- date of issue: *11.01.2017*

- date of latest amendment: *N/A*

3. Information document

- number(s): *FR120-00*

- date of issue: *06.01.2017*

- date of latest amendment: *N/A*

Documentation: *9 pages*



Approval No: E24 50R-000150

Extension No: *N/A*

Appendix: **Additional conditions, and advisory notes on legal alternatives.**

A: Additional conditions:

1. The device, type *FR120*, shall be marked as prescribed in the regulation.
2. The attached technical report, with any of its attachments, forms part of this Type Approval certificate.
3. Each individual product from series production shall be to the measurements specified in the attached drawings, and shall be manufactured only from the materials specified in the Approval documents.
4. Changes in the product are permitted only with the explicit permission of NSAI. Breaches of this requirement will lead to a withdrawal of the Type Approval, and in addition may be subject to criminal prosecution.
5. This Type Approval will expire when it is surrendered by the holder, or withdrawn by NSAI, or when the approved type of product no longer conforms to legal requirements. The recall of the Type Approval can be issued by NSAI when the conditions required for the issuing or continuation of the Type Approval are no longer current, or when the Approval holder is in breach of the duties attached to the Type Approval, or when it is established that the approved type no longer meets the requirements of traffic safety.
6. NSAI may at any time check the correct performance of the duties imposed by the grant of this Type Approval, and in order to do so, may make tests, or have tests made.
7. Changes in the company name, address or manufacturing site, as well as in any of the sales or other agents specified in the issuing of the approval must immediately be notified to the NSAI.
8. The duties imposed by the issuing of this certificate are not transferable. The legal protection of third parties is not affected by this certificate.
9. When the manufacture or sale of the vehicle, system, component or separate technical unit has not been started within one year of the date of issue of this certificate, then NSAI is to be informed. This requirement also applies when the manufacture or sale has been halted for more than one year, or when it ought to have been halted for more than one year. The initial commencement of manufacture or sale, or the resumption of manufacture or sale, shall then be notified to NSAI within one month of commencement or resumption.

B : Legal Options

Any objection to the requirements set out in this certificate shall be made within one month of the date of issue. The objection shall be made, in writing, to NSAI in Dublin.



Technical Report No.: 17-00034-CX-SHA-00
Manufacturer: Tong Yah electronic technology Company Limited
Type: FR120

TECHNICAL REPORT

No.: 17-00034-CX-SHA-00

Test according to ECE regulation relating to
Front and rear direction indicator category 11 and 12

ECE Regulation No.: 50

supplement 18 to the 00 series of amendments

Approvals granted up to now		
ECE	Number of approval	Date
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Technical Report No.: 17-00034-CX-SHA-00
Manufacturer: Tong Yah electronic technology Company Limited
Type: FR120

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I. Technical description

- 0.1. Make (trade name of manufacturer) : Rizoma
- 0.2. Type : FR120
- 0.2.1. Variants : N/A
- 0.3. Means of identification of type : By digits and letters
- 0.4. Concise description
- By category of lamp : Front and rear direction indicator category 11 and 12
- Number and category(ies) of light source(s) : 1*LED
- Colour of light emitted : Amber
- Light source module : No
- Light source module specific identification code : N/A
- Geometrical conditions of installation and relating variations, if any : See manufacturer's information document
- Application of an electronic light source control gear/variable intensity control
- Being part of the lamp : N/A
- Being not part of the lamp : N/A
- Input voltage(s) supplied by an electronic light source control gear/variable intensity control : N/A
- Electronic light source control gear/variable intensity control manufacturer and identification number (when the light source control gear is part of the lamp but is not included into the lamp body) : N/A
- Only for limited mounting height of equal to or less than 750 mm above the ground : No

Technical Report No.: 17-00034-CX-SHA-00
Manufacturer: Tong Yah electronic technology Company Limited
Type: FR120

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- 0.5. Name and address of manufacturer : Tong Yah electronic technology Company Limited
No.406 Ding-Ann street Annan district,
Tainan, Taiwan R.O.C.
- 0.8. Address of assembly plant : See 0.5.
- 0.9. Location of the approval mark : On the lens
- 0.10. If applicable, name and address of the manufacturer's representative : N/A

II. Test record

1. Test conditions

- 1.1. Technical data of the test samples : Two samples were tested.
Sample No. 1, left side mounting.
Sample No. 2, right side mounting.
For information about the form of the lamp, the position of the reference point and the reference axis, see information document.
- 1.2. Test procedures used : According to ECE Regulation No.: 50.00.
- 1.3. Measuring and test equipment : Full automatic photometric test system for automobile lamps
LMT Lichtmesstechnik GmbH Berlin
Type GO – H1400

2. Test results

2.1. General Specifications

The devices have been designed and constructed that in normal conditions of use, and notwithstanding the vibrations to which they may be subjected in such use, their satisfactory operation remains assured and they retain the characteristics prescribed by this Regulation.

No light source module or light generator is used.

2.2. Intensity of light emitted

2.2.1. Front and rear direction indicator category 11 and 12

2.2.1.1. Sample No. 1, test voltage 13.50V.

No.	Point of the measurement		Limits [cd]		Measured values [cd]		Conclusion
			Min.	Max.	1 minute	30 minute	
1	H	V	90.00	500.00	129.00	123.10	Complies
2	5L	10U	18.00	500.00	96.20	91.80	Complies
3	5R	10U	18.00	500.00	81.98	78.23	Complies
4	20R	5U	9.00	500.00	14.73	14.06	Complies
5	10R	5U	18.00	500.00	70.48	67.26	Complies
6	H	5U	63.00	500.00	119.78	114.30	Complies
7	10L	5U	18.00	500.00	115.38	110.10	Complies
8	20L	5U	9.00	500.00	29.14	27.81	Complies
9	10L	V	31.50	500.00	125.23	119.50	Complies
10	5L	V	81.00	500.00	133.93	127.80	Complies
11	5R	V	81.00	500.00	114.85	109.60	Complies
12	10R	V	31.50	500.00	79.86	76.21	Complies
13	20R	5D	9.00	500.00	16.53	15.77	Complies
14	10R	5D	18.00	500.00	78.71	75.11	Complies
15	H	5D	63.00	500.00	125.54	119.80	Complies
16	10L	5D	18.00	500.00	119.88	114.40	Complies
17	20L	5D	9.00	500.00	30.07	28.69	Complies
18	5L	10D	18.00	500.00	115.06	109.80	Complies
19	5R	10D	18.00	500.00	99.76	95.20	Complies
20	All directions Min.		0.30	---	2.38	2.35	Complies
21	All directions Max.		---	500.00	107.84	96.61	Complies

2.2.1.2. Sample No. 2, test voltage 13.50V.

No.	Point of the measurement		Limits [cd]		Measured values [cd]		Conclusion
			Min.	Max.	1 minute	30 minute	
1	H	V	90.00	500.00	125.30	113.80	Complies
2	5L	10U	18.00	500.00	85.22	77.40	Complies
3	5R	10U	18.00	500.00	111.98	101.70	Complies
4	20R	5U	9.00	500.00	44.22	40.16	Complies
5	10R	5U	18.00	500.00	121.12	110.00	Complies
6	H	5U	63.00	500.00	123.87	112.50	Complies
7	10L	5U	18.00	500.00	53.50	48.59	Complies
8	20L	5U	9.00	500.00	14.50	13.17	Complies
9	10L	V	31.50	500.00	57.45	52.18	Complies
10	5L	V	81.00	500.00	103.72	94.20	Complies
11	5R	V	81.00	500.00	131.58	119.50	Complies
12	10R	V	31.50	500.00	124.86	113.40	Complies
13	20R	5D	9.00	500.00	41.97	38.12	Complies
14	10R	5D	18.00	500.00	113.74	103.30	Complies
15	H	5D	63.00	500.00	116.16	105.50	Complies
16	10L	5D	18.00	500.00	53.37	48.47	Complies
17	20L	5D	9.00	500.00	13.62	12.37	Complies
18	5L	10D	18.00	500.00	72.06	65.45	Complies
19	5R	10D	18.00	500.00	92.60	84.10	Complies
20	All directions Min.		0.30	---	2.58	2.35	Complies
21	All directions Max.		---	500.00	106.37	96.61	Complies

Technical Report No.: 17-00034-CX-SHA-00
 Manufacturer: Tong Yah electronic technology Company Limited
 Type: FR120

2.3. Colour - Amber

Sample	Measured values		Limits		
	x	y	$y \leq x - 0.120$	$y \geq 0.390$	$y \geq 0.790 - 0.670 x$
No. 1	0.5716	0.4257	Yes	Yes	Yes
No. 2	0.5779	0.4198	Yes	Yes	Yes

2.4. Apparent surface

Limit (I)	Limit (O)	Limit (U)	Limit (D)
12mm	11mm	4mm	4mm

3. Specimen submitted to test on : 2017-01-06 (YYYY-MM-DD)
4. Place of test : ISOQA Technical Service Co., Ltd,
Taichung City, Taiwan, ROC
- Date of test : 2017-01-11 (YYYY-MM-DD)

III. Enclosures

- Manufacturer's information document No. : FR120-00
- Dated on : 2017-01-06 (YYYY-MM-DD)



Technical Report No.: 17-00034-CX-SHA-00
 Manufacturer: Tong Yah electronic technology Company Limited
 Type: FR120

IV. Statement of conformity

The information folder as mentioned under No. III and the type described therein are in compliance with the test specification mentioned above. The worst-case was selected in accordance with document "Preparation of Test Reports".

The test report may be reproduced and published in full and by the client only. It can be reproduced partially with the written permission of the test laboratory only.

München, 2017-01-11
 (YYYY-MM-DD)



Joe Zhou

Test Laboratory / DIN EN ISO 17025

Genehmigungsbehörde/ Approval authority	Land/Country	Registriernummer/ Registration-number	Aktueller Benennungsumfang/ Actual scope list
Kraftfahrt-Bundesamt (KBA)	Deutschland/ Germany	KBA-P 00100-10	www.kba.de
Vehicle Certification Agency (VCA)	Vereintes Königreich/ United Kingdom	VCA-TS-006	http://ec.europa.eu/enterprise/sectors/automotive/approval-authorities-technical-services/technical-services/index_en.htm
Approval Authority of the Netherlands (RDW)	Niederlande/ The Netherlands	RDWT-082-03	
National Standards Authority of Ireland (NSAI)	Irland/ Ireland	Technical Service Number: 49	
Vehicle Safety Certification Center (VSCC)	Taiwan/ Taiwan	DE04-06-2	http://www.vsc.org.tw/English/Default.aspx

INFORMATION
for Initial Application

1. Specification data

Type		FR120
Function		Front and Rear direction indicator
Color		Amber
Rated	Voltage	12V
	Wattage	1.4W
Application Regulation ECE		R50.00, category 11 and 12
Location of marking	Number and category of light source	1*LED
	Trade mark	Rizoma
		On the housing
Approval mark	Marked on lens	

2. Construction and material

Construction	Material	Remarks
Outer Lens	PC	Clear, with pattern
Inner Lens	N/A	N/A
Reflector	N/A	N/A

3. Name and address of manufacturer : Tong Yah electronic technology Company Limited
No.406 Ding-Ann street Annan district, Tainan, Taiwan R.O.C.

4. Name and address of the assembly plant : See 3.

5. statement

We confirm that the above mentioned application has not been submitted to any other EC member state nor has any other member state granted a corresponding approval.

We declare hereby that the products submitted for the type approval

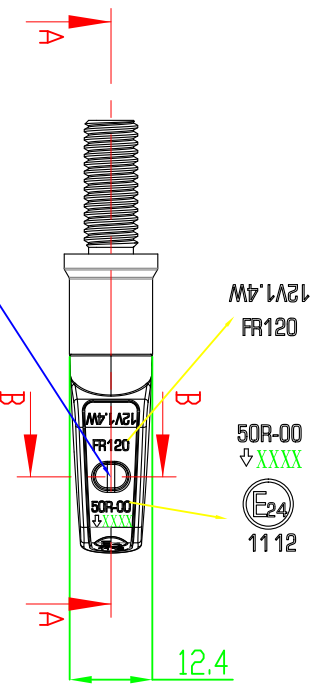
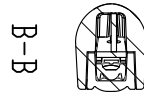
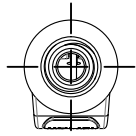
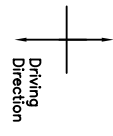
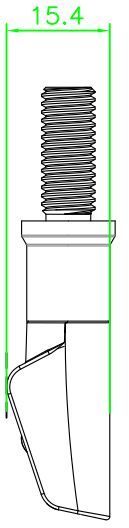
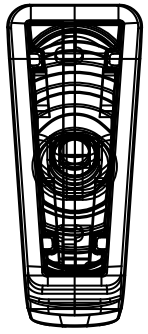
1 Is compatible with the enclosed documentation.

2 It has been manufactured under condition of mass production.

Drawing No. 1

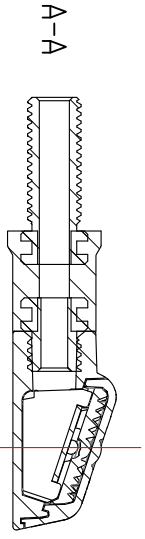
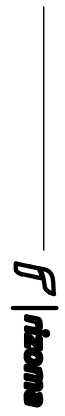
納亞電子科技股份有限公司智慧財產，非經同意請勿複製。

版本	變更內容	修訂者	日期
Δ XXX			



Front and Rear Direction Indicator LEDx1

Horizontal Plane of Vehicle Axis of Reference



Longitudinal Plane of Vehicle Axis of Reference