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VEHICLE CERTIFICATION AGENCY

THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

Rev 10/02



COMMUNICATION CONCERNING THE APPROVAL GRANTED OF A TYPE OF DEVICE PURSUANT TO REGULATION NO 50

(Motorcycle Lamps and Illuminating Devices)

Approval No: 001062

- 1. Trade name or mark of the device: YM
- 2. Manufacturer's name for the type of device: YM-4211
- 3. Manufacturer's name and address:

Yu Ming Company Limited No.299 Sec.3, Bei An Road Tainan City Taiwan Republic Of China

- 4. If applicable, name and address of the manufacturer's representative: Not applicable
- 5. Submitted for approval on: 2 May 2005
- 6. Technical service responsible for conducting approval tests: Vehicle Certification Agency
- 7. Date of report issued by that service: 9 May 2005
- 8. Number of report issued by that service: EAF064965
- 9. Concise description:

By category of lamp: 1 for rear registration plate lamp

Colour of light emitted: White for rear registration plate lamp



Number and category of filament lamp(s): $3 \times 12 \text{V}$ LED, 0.2 W for rear registration plate lamp

Geometrical conditions of installation and relating variations, if any: Not applicable

- 10. Position of the approval mark: On the lens
- 11. Reason(s) for extension (if applicable): Not applicable
- 12. Approval: GRANTED
- 13. Place: BRISTOL
- 14. Date: 10 MAY 2005
- 15. Signature:

 A.W. STENNING

 Head of Product Certification
- 16. The list of documents deposited with the Administrative Service which has granted approval is annexed to this communication and may be obtained on request.

EAF064965





Vehicle Certification Agency Far East Office



英國車輛驗證局遠東辦事處建鄉驗證

VCA REFERENCES

Test Report Number **EAF064965**

Number of Pages 3 Number of Annexes 3

TEST DETAILS

Subject Tail lamp& Direction Indicator, details listed as Category

Specific Requirements ECE Reg. 50.00
Duration 2005/5/2~9

Technical Service Integrated Service of Quality Assessment

for Vehicle Certification Agency

VCA Representative ARTHUR C H CHANG

Manufacturer's Representative Reason for Test Ming Chih Shih

Type of Approval

MANUFACTURER DETAILS

Manufacturer's Name

Yu Ming CO.,LTD.

Manufacturer's Address NO.299, Sec. 3 BEI AN Road, Tainan, Taiwan Republic Of

China

Premise of Manufacturing Same As Above

Model Type & description YM-4211

Category 1 for Rear Registration Plate Lamp.

CONCLUSION The submitted samples are tested in accordance with

Specific Requirements and found in compliance with all

archer Chang

aspects.

Signature:

Name: ARTHUR C H CHANG

Position: **COE of ISOQA**

Date: 9 May 2005

LIST OF ANN	IEXES		
Annex	Total page	Subject	Reference
1	1	Information document	
2	2	Drawing & PHOTO	YM-4211
3	4	Test Record	05- 0074



Item

Vehicle Certification Agency





YES/NO

英國車輛驗證局遠東辦事處建維驗證

ECE REGULATION NO.50

6. 6.1.	GENERAL SPECIFICATIONS Each device shall conform to the specification	ons of the F	Regulation.		KES	<u>olio</u>	YES
6.2.	The devices must be so designed and constructions to which they may be subjected, assured and they retain the characteristics provided in the characteristics of	their satis	tion continues to			YES	
6.3	Light source module						
6.3.1.	The design of the light source modules(s) light source module(s) can be fitted in no oth	er position					<u>N/A</u>
6.3.2.	The light source module(s) shall be tamperper	OOI.					<u>N/A</u>
7.	INTENSITY OF LIGHT EMITTED In the reference axis, the intensity of the eshall be at least equal to the minimum value the following table. In no direction, the exceeded.	s and not e maximum	exceed the ma m values inc	ximum values of licated shall be	SAMPLE 1	SAMPLE 2	<u>N/A</u>
		min.(cd)		ax.(cd) a single lamp			
			Single famp	containing more than one light source :			
7.1.	Rear position lamp	4	12	16.8			N/A
7.2.	Front position lamp	4	60	84			N/A
7.2.1	Front position lamps incorporated in the	4	100	140			N/A
7.3.	headlamp Stop lamp	40	185	259			N/A
7.4. 7.4.1.	Direction Indicators of the category 11 (see Annex 1)	90	700 <u>2/</u>	980			<u>N/A</u> <u>N/A</u>
7.4.1.1		175	700 ^{3/}	980			N/A
7.4.1.2 7.4.1.3	<i>E S ((((((((((</i>	250 400	800 ^{3/} 860 ^{3/}	1120 1204			N/A N/A
7.4.2.	of the category 12 (see Annex 1)	50	350	490			N/A
7.5.	Outside of the reference axis and within the Annex 1 to this Regulation, the intensity of corresponding to the points in the light distribution.	the light e	emitted shall,	in each direction			N/A
	Regulation, be not less than the product of the	e minima :	specified in Pa	aragraph 5.7.1. to			1471
7.5.1.	7.4. above and of the percentage specified in the case of a single lamp containing more	than one li	ight source:	•			
	 the lamp shall comply with the minimu any one light source has failed, 						
	(ii) when all light sources are illuminated, t an assembly of two lamps is given by for a single lamp is paragraphs 7.1. to 7	multiplyin					<u>N/A</u>
	(iii) all light sources which are connected in be one light source.		considered to				
7.6.	As an exception to Paragraph 7.1. above, a						
	shall be permitted for rear position lamps re below a plane performing an angle of 5° with				<u>N/A</u>		
7.7. 7.7.1.	Moreover, throughout the fields defined in Annex 1, the						\$1/4
							N/A

7.7.2. If a position lamp is grouped or reciprocally incorporated with a stop lamp, the ratio between the luminous intensities actually measured of the two lamps when turned on simultaneously and the intensity of the rear position lamp when turned on alone shall be at least 5:1 to the eleven measuring points defined in Annex 4 and suited in the filed delimited by straight vertical lines passing through 0°V/±10°H and the straight horizontal lines passing through ±5°V/0°H of the light distribution table;

And not less than 0.3 cd for stop lamps and direction indicators;

not less than 0.05 cd for position lamps

If the rear position lamp or the stop lamp or both contain more than one light source

t 10-May-20<u>0/</u>5

SAMPLE

<u>N/A</u>

SAMPLE 1



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to be considered are those obtained with all light sources in operation.
to be considered are those obtained with all light sources in energic
and are considered as single lamps, as defined in paragraph 7.5.2. above, the values

7.7.3. the provisions of Paragraph 2.2. of Annex 4 to this Regulation on local variations of intensity shall be observed.

7.8 In general the intensities shall be measured with the light source(s) continuously

> In the case of lamps intended to work intermittently, precaution shall be taken to avoid overheating of the device. Depending on the construction of the device, for example, the use of light-emitting diodes (LED) or the need to take precautions to avoid overheating, it is allowed to measure the lamps in flashing mode. This must be achieved by switching with a frequency of $f = 1.5 \pm 0.5$ Hz with the

pulse width greater than 0.3 s, measured at 95 per cent peak light intensity. In the case of replaceable filament lamps, the filament lamps shall be operated at reference luminous flux during on time. In all other cases the voltage as required in paragraph 8.1. shall be switched with a rise time and fall time shorter than 0.01 s; no overshoot is allowed.

In the case of measurements taken in flashing mode the reported luminous intensity shall be represented by the maximum intensity.

7.9. Annex 4, to which reference is made in Paragraph 7.5. above, gives particulars of the methods of measurement to be used.

7.10. The rear-registration-plate illuminating device shall comply with the specifications Please See Record No.05indicated in Annex 6 to this Regulation.

YES

N/A

N/A

YES

<u>N/A</u>

TEST PROCEDURE 8.

8.1. All measurements shall be carried out with an uncolored standard filament lamp of the category prescribed for the device, adjusted to produced the reference luminous flux prescribed for the filament lamp involved (See Regulation No. 37).

All measurements on lamps with non-replaceable light sources shall be made at 6.75 V and 13.5 V respectively.

8.2. The limits of the apparent surface in the direction of the reference axis of a lightsignalling device shall be determined.

LED made at 13.5V

0074 Attached.

YES YES

N/A

9. **COLOUR OF LIGHT EMITTED**

Stop lamps and rear position lamps shall emit red light, front position lamps shall emit white light, direction indicators shall emit amber light.

The colour of the light emitted inside the field of the light distribution grid defined at paragraph 2 of annex 4, measured using a light source having a colour temperature of 2856 K, <u>3/</u> shall be within the limits of the co-ordinates prescribed for the colour in question in annex 5 to this Regulation. Outside this field no sharp variation of colour shall be observed. However, for lamps equipped. However, for lamps equipped with non-replaceable light sources, the colorimetric characteristics should be verified with the light sources present in the lamps at a voltage of 6.75 V, 13.5 V or 28.0 V.

Footnotes

Applies only to the zone between the vertical lines through V=0°/H= ±5° and two 2/ horizontal lines through V= ±10°/H=0°. For all other directions, a maximum of 400 cd is applicable.

<u>3/</u> Corresponding to illuminant A of the Commission internationale de l'eclairge(CIE) N/A

N/A



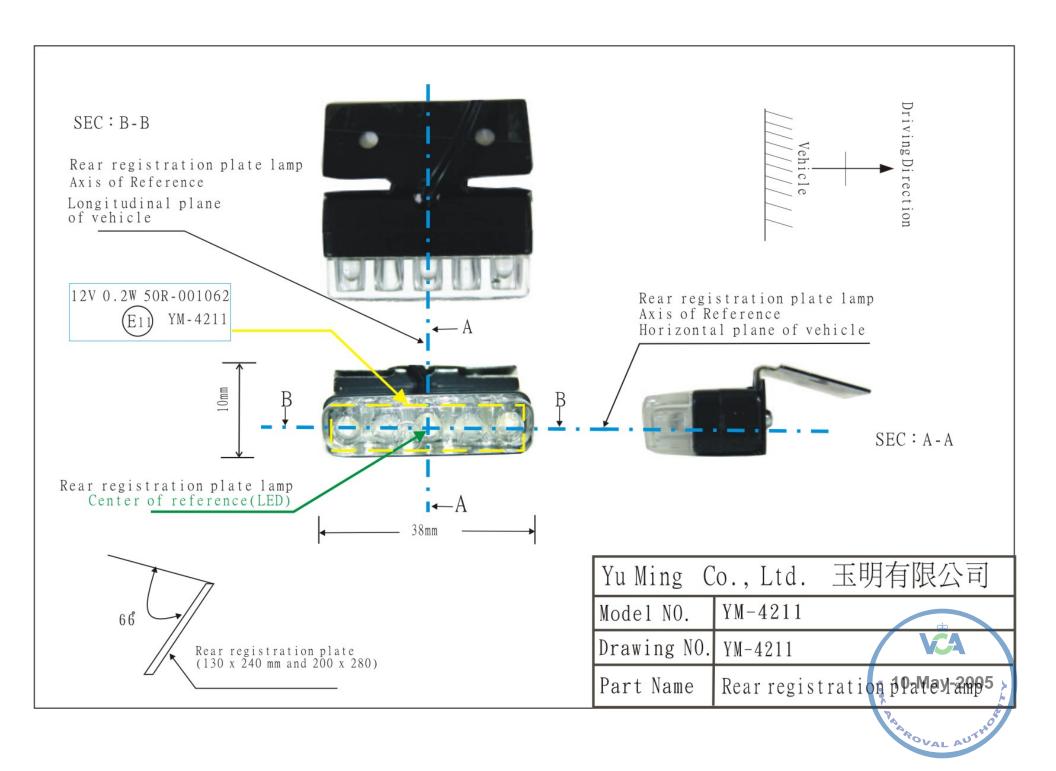
Yu Ming Co., Ltd.

玉明有限公司 Information Document

for <u>Initial</u> application to ECE Homologation

of Model Number YM-4211

items	Details		Initial	Extension-	00	Remark				
1.	VCA		•	•	•	•				
1.1	Job Number		EAF064965							
1.2	Approval Nu	ımber	00 1062							
	•									
2.	Manufacture	er	1	•						
2.1	Name		Yu Ming Co., Ltd.							
2.2	Address		299, Sec. 3, BEI AN Road,							
			Tainan City, Taiwan,							
			Republic of China							
2.3	Trade name or mark		YM							
			J	.						
3.	Product									
3.1	Model Numl	ber	YM-4211							
3.2	Intended functions Charteristic									
3.2.1	Rear	Category	1							
	registration	Bulb	LED 12V 0.2W							
	plate lamp	Color of light	White							
	(R50)	Color of lens	Clear							
		Incidence angle	66°							
						ļ				
				-						
						ch				
	<u> </u>					VA				
4.	Drawings		YM-4211		<u>c</u> 10-	May-200				



YU MING CO.,LTD. YM-4211 Rear registration plate lamp

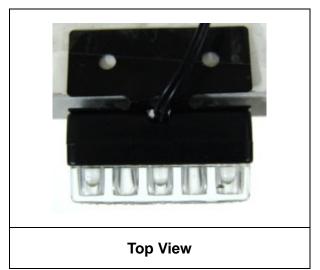


Front View



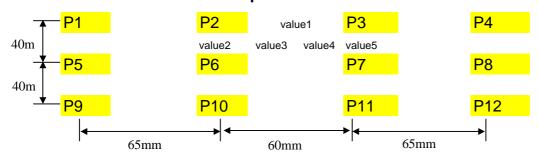
Side View







	Photometric Characteristics									
Record No.	05- 0074	Reference	EAF064965 50 00 1062							
Requirement	ECE R50 Clause7 Annex 6	Function	Rear registration plate lamp (R50)							
Subject	YM-4211	Date	9/5/2005							



Note: Value 1 = (P1-P2)/distance 1-2

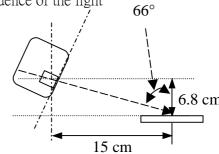
Value 2=(P1-P5)/distance 1-5

Value 3=(P1-P6)/distance 1-6

Value 4=(P2-P5)/distance 2-5

Value 5=(P2-P6)/distance 2-6 etc.

angle of incidence of the light



Optional axis

Sa	ımp.	le l	
1	mir	nnte	

<u>14.64</u>	0.32		<u>12.55</u>	0.	81	<u>17.43</u>	1.07		<u>10.46</u>	P8= Bo	
1.22	0.82 0.37		1.05	0.19	1.26	1.57	1.37	0.09	0.87	(B2-B1)	
<u>9.76</u>	0.21		<u>8.37</u>	0.	46	<u>11.15</u>	0.64		<u>6.97</u>	distance1-2 in cm	
1.22	0.55	0.82	1.39	1.26	0.39	1.57	0	1.37	1.05	$\leq 2 \text{ x Bo/cm} = 13.94$	
14.64	0.11		13.94	0.	58	17.43	0.97		11.15		

Sample 2 30 minute

2	<u>13.94</u>	0.	21	<u>12.55</u>	0.	70	<u>16.73</u>	0.96		<u>10.46</u>	P5= Bo
te	1.05	0.82	0.37	1.22	0.29	1.26	1.57	1.28	0	0.87	(B2-B1)
	<u>9.76</u>	0.	0.32 <u>7.67</u> 0.47 <u>10.46</u> 0.54		<u>6.97</u>	distance1-2 in cm					
	1.05	0.46	0.82	1.40	1.26	0.39	1.57	0	1.28	0.87	< 2 x Bo/cm = 13.94
	13.94	0.	11	13.25	0.	58	16.73	0.96		10.46	<u> </u>

Tested by YuXiang Lin

Signature

Approved by

Arthur C. H. Chang

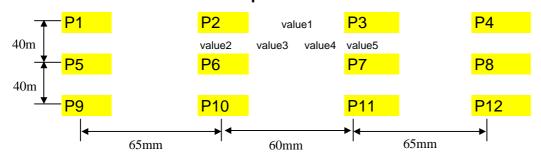
Signature

EAF064965

R50_00 1062 YM4211_Test Record

R50-C7.10-A6(category 1-S1) page 1

	Photometric Characteristics									
Record No.	05- 0074	Reference	EAF064965 50 00 1062							
Requirement	ECE R50 Clause7 Annex 6	Function	Rear registration plate lamp (R50)							
Subject	YM-4211	Date	2/5/2005							



Note: Value 1 = (P1-P2)/distance 1-2

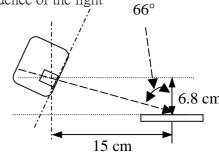
Value 2=(P1-P5)/distance 1-5

Value 3=(P1-P6)/distance 1-6

Value 4=(P2-P5)/distance 2-5

Value 5=(P2-P6)/distance 2-6 etc.

angle of incidence of the light



Optional axis

Sa	mp	e l	ŀ
1	mir	111t <i>e</i>	_

<u>11.85</u>	0.	54	<u>15.34</u>	0.	23	<u>13.94</u>	0.11		<u>13.25</u>	P5= Bo	
1.05	0.27	1.00	1.40	0.87	0.58	1.22	0.73	0.55	1.22	(B2-B1)	
<u>7.67</u>	0.32		<u>9.76</u>	0.	12	<u>9.06</u>	0.11		<u>8.37</u>	distance1-2 in cm	
1.22	1.10	0.37	1.57	0.48	0.97	1.05	0.64	0.64	1.39	$\leq 2 \text{ x Bo/cm} = 15.34$	
12.55	0.54		16.04	0.	47	13.25	25 0.11		13.94		

Sample 2 30 minute

2	<u>11.85</u>	0.	54	<u>15.34</u>	0.	23	<u>13.94</u>	0.32		<u>11.85</u>	P5= Bo
e	1.05	0.27	1.00	1.40	0.87	0.58	1.22	0.82	0.37	1.05	(B2-B1)
	<u>7.67</u>	0.	32	<u>9.76</u>	0.	0.12		0.21		<u>7.67</u>	distance1-2 in cm
	1.05	1.10	0.27	1.57	0.58	0.97	1.22	0.55	0.82	1.40	< 2 x Bo/cm = 15.34
	11.85	0.64 16.04 0.35		13.94	0.	11	13.25	<u> </u>			

Tested by YuXiang Lin

Signature

Approved by

Arthur C. H. Chang

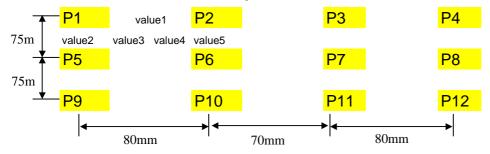
Signature

EAF064965

R50_00 1062 YM4211_Test Record

R50-C7.10-A6(category 1-S2) page 2

Photometric Characteristics											
Record No.	05- 0074		Ref.	EAF064965	50	00 1062					
Requirement	ECE R50 Clau	use7 Annex 6	Function	Rear registration pla	te lamp	(R50)					
Subject	YM-4211		Date	9/5/2005							



angle of incidence of the light

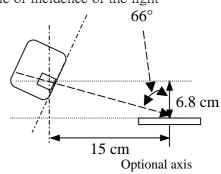
Note: Value 1 = (P1-P2)/distance 1-2

Value 2=(P1-P5)/distance 1-5

Value 3=(P1-P6)/distance 1-6

Value 4=(P2-P5)/distance 2-5

Value 5=(P2-P6)/distance 2-6 etc.



Sample 1
1 minute

<u>6.97</u>	0.18	<u>8.37</u>	0.20	<u>9.76</u>	0.44	6.27	P8= Bo
0.37	0.13 0.13	0.37	0.00 0.41	0.19	0.51 0.19	0.28	(B2-B1)
<u>9.76</u>	0.52	<u>5.58</u>	0.40	<u>8.37</u>	0.52	<u>4.18</u>	distance1-2 in cm
0.37	0.13 0.13	0.37	0.41 0	0.19	0.19 0.51	0.28	< 2 x Bo/cm = 8.36
<u>6.97</u>	0.18	8.37	0.20	<u>9.76</u>	0.44	<u>6.27</u>	

Sample 2
30 minute

2	<u>6.97</u>	0.09		<u>7.67</u>	0.2	20	<u>9.06</u>	0.44		<u>5.58</u>	P8= Bo
es	0.37	0.13	0.19	0.28	0.07	0.34	0.09	0.45	0.25	0.19	(B2-B1)
	<u>9.76</u>	0	.52	<u>5.58</u>	0.40		<u>8.37</u>	0.52		<u>4.18</u>	distance1-2 in cm
	0.37	0.19	0.13	0.28	0.41	0.07	0.19	0.19	0.51	0.28	< 2 x Bo/cm = 8.36
	6.97	0	.09	7.67	0	30	9.76	0.44		6.27	_ = 0.50

Tested by YuXinag Lin

Signature

Zin

Approved by

EAF064965

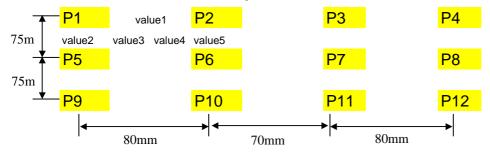
Arthur C. H. Chang

Signature

R50_00 1062 YM4211_Test Record R50-C7.10-A6-2(category 2-S1) page 3 of 4

Change V

Photometric Characteristics											
Record No.	05- 0074	Ref.	EAF064965 50	00 1062							
Requirement	ECE R50 Clause7 Annex 6	Function	Rear registration plate lamp	(R50)							
Subject	YM-4211	Date	2/5/2005								



angle of incidence of the light

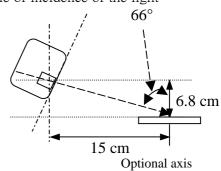
Note: Value 1 = (P1-P2)/distance 1-2

Value 2=(P1-P5)/distance 1-5

Value 3=(P1-P6)/distance 1-6

Value 4=(P2-P5)/distance 2-5

Value 5=(P2-P6)/distance 2-6 etc.



Sample 1 1 minute

<u>6.27</u>	0.26		<u>8.37</u>	0.	0.10		0.18		<u>6.27</u>	P5= Bo
0.28	0.06	0.38	0.19	0.14	0.07	0.09	0.32	0.06	0.28	(B2-B1)
<u>4.18</u>	0.35		<u>6.97</u>	0.00		<u>6.97</u>	0.35		<u>4.18</u>	distance1-2 in cm
0.28	0.38	0.06	0.19	0.07	0.14	0.09	0.06	0.32	0.28	< 2 x Bo/cm = 8.36
<u>6.27</u>	0.26		<u>8.37</u>	0.	10	<u>7.67</u>	0.	18	6.27	_

Sample 2 30 minutes

.	<u>6.27</u>	0.	.26	<u>8.37</u>	0.10		<u>7.67</u>	0.18		<u>6.27</u>	P5= Bo	
S	0.28	0.06	0.38	0.19	0.14	0.07	0.09	0.32	0.06	0.28	(B2-B1)	
	<u>4.18</u>	0.35		<u>6.97</u>	0.	00	<u>6.97</u>	0.35		<u>4.18</u>	distance1-2 in cm	
	0.28	0.38	0.06	0.19	0.07	0.14	0.09	0.06	0.32	0.28	< 2 x Bo/cm = 8.36	
	6.27	0.	.26	8.37	0.	10	7.67	7 0.18		6.27		

Tested by YuXinag Lin Signature

Approved by

Arthur C. H. Chang

Signature

EAF064965

R50_00 1062 YM4211_Test Record

R50-C7.10-A6-2(category 2-S2) page 4 of 4