"Influence of light and color of advertising photography on consumers' purchase intention"

AUTHORS	Fenglei Chen 🝺 Khunanan Sukpasjaroen 🝺 Thitinan Chankoson 🝺
ARTICLE INFO	Fenglei Chen, Khunanan Sukpasjaroen and Thitinan Chankoson (2022). Influence of light and color of advertising photography on consumers' purchase intention. <i>Innovative Marketing</i> , <i>18</i> (4), 215-231. doi:10.21511/im.18(4).2022.18
DOI	http://dx.doi.org/10.21511/im.18(4).2022.18
RELEASED ON	Wednesday, 28 December 2022
RECEIVED ON	Sunday, 11 September 2022
ACCEPTED ON	Tuesday, 20 December 2022
LICENSE	CO) EY This work is licensed under a Creative Commons Attribution 4.0 International License
JOURNAL	"Innovative Marketing "
ISSN PRINT	1814-2427
ISSN ONLINE	1816-6326
PUBLISHER	LLC "Consulting Publishing Company "Business Perspectives"
FOUNDER	LLC "Consulting Publishing Company "Business Perspectives"
0	

NUMBER OF REFERENCES

61

NUMBER OF FIGURES

1

NUMBER OF TABLES

9

© The author(s) 2023. This publication is an open access article.





BUSINESS PERSPECTIVES

LLC "CPC "Business Perspectives" Hryhorii Skovoroda lane, 10, Sumy, 40022, Ukraine www.businessperspectives.org

Received on: 11th of September, 2022 Accepted on: 20th of December, 2022 Published on: 28th of December, 2022

© Fenglei Chen, Khunanan Sukpasjaroen, Thitinan Chankoson, 2022

Fenglei Chen, Dr., Faculty of Management, Chakrabongse Bhuvanarth International Institute for Interdisciplinary Studies (CBIS), Rajamangala University of Technology Tawan-OK, Thailand. (Corresponding author)

Khunanan Sukpasjaroen, Dr., Faculty of Management, Chakrabongse Bhuvanarth International Institute for Interdisciplinary Studies (CBIS), Rajamangala University of Technology Tawan-OK, Thailand.

Thitinan Chankoson, Associate Professor, Faculty of Business Administration for Society, Srinakharinwirot University, Thailand.

This is an Open Access article, distributed under the terms of the Creative Commons Attribution 4.0 International license, which permits unrestricted re-use, distribution, and reproduction in any medium, provided the original work is properly cited.

Conflict of interest statement: Author(s) reported no conflict of interest Fenglei Chen (Thailand), Khunanan Sukpasjaroen (Thailand), Thitinan Chankoson (Thailand)

INFLUENCE OF LIGHT AND COLOR OF ADVERTISING PHOTOGRAPHY ON CONSUMERS' PURCHASE INTENTION

Abstract

With the rapid progress of information technology, short video advertising has flourished, and the performance of advertising images can stimulate consumers' purchase behavior through short video platforms. Drawing on stimulus-organization-response (S-O-R) theory, this study explored the moderating role of short video platforms on the relationship between light and color of advertising photography and brand image and the mediating role of brand image between light and color and consumers' purchase intention. The data were collected using a questionnaire focusing on consumers who purchased detergent products in major supermarkets in East China. The survey covered 200 respondents from different industries, genders, and education levels in various provinces and cities in East China. Collected data were analyzed using regression analysis. It was found that the light and color of advertising photography have a facilitating effect on consumers' purchase intention. Furthermore, brand image mediates the relationship between light and color and consumers' purchase intention. Finally, short video platforms can moderate the relationship between light and color and brand image. This study will encourage scholars to use the S-O-R model in academic research to investigate how advertising affects consumers' purchase intention and guide companies to use short video platforms to advertise and increase product sales.

Keywords

advertising photography, light, color, short video platform, brand image, willingness to buy, S-O-R model

JEL Classification M31, M37

INTRODUCTION

With the rapid development of information technology, advertising has been deeply rooted in people's hearts and affected people's lives. Advertising affects the material concepts of most audiences in modern society and dominates the current culture's popular and consumption trends. It has become the mainstay of today's mass media industry. It not only appears in traditional media such as radio, television, newspapers, and magazines but also in social media such as the Internet and mobile communications. In modern society, a large amount of advertising information is poured into people every day, but not all advertisements can attract people's attention. At this time, photographic advertisements with explicit images, visual appeal, and impact have become the focus of people's eyes. Therefore, the performance of the advertising photography, especially the effect of the light and color performance of the advertising photography on the consumer's vision, directly affects the consumer's willingness to buy advertised products.

Research results on advertising on consumers' purchase intention are rich. However, only a few scholars have conducted in-depth research on the influence of light and color on consumers' purchase intention by applying the S-O-R model with the stimulus-organization-response theory.

1. LITERATURE REVIEW AND HYPOTHESES

Several scholars have developed more sophisticated scales for measuring consumers' purchase intentions. The scales developed by Ajzen and Fishbein (1977) and Bearden and Etzel (1982) included questions on the likelihood of buying the brand and plan to buy the brand, which consumers scored on a seven-point Likert scale. Dodds et al. (1991) enriched the scale by expanding the items to include the likelihood of buying the brand, "if I were to buy the brand," "if I were to buy, I would prefer this product," likelihood of buying the product, and willingness to buy the brand. Feng et al. (2006) summarized the previous research results and divided the scale topics into intense, strong, average, weak, and very weak.

Different methods of using light have different effects on the three-dimensionality and texture of the subject, as well as the shape of light and shadow, and thus the performance effect of advertising photography (Zheng, 2010). In addition, the use of light level, light intensity, and light decoration also profoundly affects the picture's visual expression.

Color is one of the essential elements of painting, and various objects show complex color phenomena depending on how much light they absorb and reflect (Ma, 2013). Advertising photography always uses color to express itself; thus, the color has been a long-term research subject and topic for art practitioners (Zheng, 2015). Although the world is composed of shape and color, color is destined to stimulate the human senses more strongly than form. Color is the most intuitive and eye-catching element in visual art and is the first of its kind (Sun, 2015).

Xie et al. (2019) argue that light and color in advertising photography facilitate consumers' purchase intention. However, there are very few empirical studies on these two topics, which requires more academic research.

The term "brand image" was introduced in the 1950s, and Ogilvy (2005) explains the concept of brand image in advertising, arguing that as the differences between similar products decrease, the products become more homogeneous, and con-

sumers use less rationality when choosing products. Therefore, it is more important to portray a brand's image than to emphasize a product's specific functional characteristics. It is not the tiny differences between a product but the overall personality of a brand that determines its final position in the market.

Guo et al. (2006) divided the evaluation factors of the brand image into four major parts: corporate image, product image, symbolic image, and communication image. Bi et al. (2019) concluded that 2017 could be defined as the "first year" of short video development for the mobile Internet category. This year a series of short videos represented by Jitterbug, Racer, Watermelon Video, Volcano Small Video, Weishi, and Seconds occupied the home pages of significant application downloads. Interactive experience brings a new visual stimulation feeling to the audience, overturning the original traditional bearing form of publishing with a combination of text, pictures, and information. Moreover, social interaction function, rich content expression, and more information-bearing capacity extensively mobilize the user's participation. According to Liao (2018), the user scale and usage length of short videos have grown explosively, and its market size share in the overall video content industry has expanded rapidly at the same time. This paper combines the findings of Bi et al. (2019) and Liao (2018), which will be defined as a platform that can shoot videos of up to five minutes in length distributed on new Internet media.

The direct expression of advertising information is more suitable for advertising search products, while the metaphorical expression of advertising information is more suitable for advertising experience products. Combining these product types and advertising message expressions can effectively improve consumers' purchase intention (Yang et al., 2022). The advertisement's video information has comprehensive coverage characteristics, strong pertinence, and remarkable effects. This positively impacts consumers' purchase intention (Liu et al., 2019).

Li and Zhong (2015) believe that light and color promote consumers' purchase intention. However, there are very few empirical studies on these two topics (light and color and consumer purchase intention). Advertising is an essential means of building a brand image. Its direct, extensive, and controllable characteristics make it a fast and effective influence on all aspects of the brand image (Li & Zhong, 2015). The impact of advertising on brand image building is reflected in brand awareness, brand loyalty, brand culture, and brand association (Wang et al., 2020).

Brand authenticity is an asset. However, the interaction of perceived brand authenticity and advertising imagery is defined by overall brand evaluation (Loebnitz & Grunert, 2022). Advertising photography and brand image are more and more inseparable and complement each other. The closer they are combined, the better the effect and value will be. The ultimate purpose of brand image shaping is to influence consumers' purchasing decisions. In this process, the primary influence of the visual characteristics of advertising photography in brand image building is reflected in four aspects: the promotion of brand awareness, the rise of brand loyalty, and the strengthening of brand association and brand culture (Zhang & Wu, 2017). Therefore, advertising can influence brand image (Miller & Berry, 1998). Semaan et al. (2018) suggest that individuals have more favorable brand attitudes toward grooming ads when ads are disclosed grooming. Disclosed cosmetic ads utilize two-way persuasive power, thus leading consumers to evaluate the brand more favorably, enhancing the brand image.

Using convenience sampling techniques, Rehman and Al-Ghazali (2022) collected data from 288 respondents and analyzed the data by Smart PLS-SEM. The findings showed that social advertising and personal factors impact brand image. Furthermore, there is a significant positive correlation.

Brand image refers to the individual characteristics of a product formed in the minds of consumers that are different from other products. Brand image affects consumers' purchase intention to a certain extent (Huang et al., 2020). Establishing brand image is a long-term process, which can only be achieved after some time, but once it is formed, it will affect consumers' consumption activities for a long time (Gong, 2020).

Brand image of a product is the performance of the company's vision and corporate culture (Fang,

2015). It mainly includes brand awareness, brand reputation, brand responsiveness, and brand attention. Together they form the brand image of a product (Lai & Xu, 2016). In addition, corporate culture is another factor that affects the brand image, affecting consumers' willingness to buy (Ni & Zhu, 2019).

Brand image is a long-term accumulation process, and with the improvement of consumption concepts, consumers pay more attention to the products' image (Zhang, 2019). At the same time, brand image is also consumers' perception and attitude toward a particular brand, which directly affects the purchasing behavior of consumers (Gao, 2017). Therefore, brand image has a positive impact on brand attitude, brand attitude has a positive effect on brand preference, and brand preference has a positive impact on purchase intention (Wu & Jang, 2014).

Harsono et al. (2018) randomly surveyed consumers in the Surabaya and Sidoarzo regions of East Java, Indonesia, utilizing a questionnaire, multiple regression analysis, and multiple correlation coefficient analysis. It is concluded that the influence of brand image on consumers' purchase intention depends on the type of goods.

Lin et al. (2018) used purposeful sampling to distribute three hundred questionnaires to graduate students with experience in e-commerce procurement. The results verify the positive impact of brand image on e-commerce attitudes and prove that brand image affects consumers' purchasing moods.

With the advancement of mobile Internet and media technology, short browsing videos have gradually become a favorite way of entertainment for the public. The vertical screen, fragmentation, and socialization of short videos make quick video users sticky. Short video advertisements are used to expand the publicity effect of products. Douyin is a high-quality traffic base as the fast video industry's head software. The number of ads is extensive; short video advertisements show a blowout development trend (Chen, 2022).

The rapid development of short video social networking platforms provides opportunities to carry

out health-related advertisements and recommendations (Zhao & Wang, 2020). Zhao and Wang (2020) found that consumers' perception of the ease of use of health-related short video advertisements did not significantly predict users' attitudes toward ads. This new finding in social media-oriented advertising offers recommendations for how advertisers and marketers can promote health-related short video ads. Luo and Zeng (2022) concluded that when enterprises put short video advertisements, they should adopt communication strategies such as increasing advertising creativity, establishing brand personality, combining popular advertising content, increasing brand and audience stickiness, and accurately targeting users. Huang (2020) researched the concept and current situation of short video advertising marketing, analyzed the advantages of short video advertising marketing in the new media era, explored the innovative strategies of short video advertising marketing in the new media era, and proposed a new media era. Advertisers need to consider the actual needs of different audiences and formulate precise advertising and marketing strategies by providing personalized services to enhance the effect of short video advertising marketing.

With the rapid development of new media, the construction of the brand image is no longer limited to traditional media such as TV and radio. Still, it has achieved innovation in short videos (Zhao, 2020). Wang (2020) took Linyi, a city with a profound historical and cultural heritage and revolutionary traditions, as an example to study the composition of Linyi's city image in the short video platform represented by Douyin. Moreover, the study analyzed its communication characteristics. Fan and Xu (2020) took annual Douyin Beautiful Life Festival as an example. They combined the advantages of the two and proposed a marketing communication strategy that combines online and offline approaches. The "TikTok + City" marketing model not only meets users' needs but also achieves the effect of short video precision marketing and actively promotes the construction and dissemination of the city's brand image. Zhu (2018) believes that the foundation of brand communication is the establishment of corporate brands. To spread brand information through short video advertisements, it is necessary to establish strategic awareness, fully

consider its product characteristics, and determine the brand tone and development direction. There are many kinds of short video advertisements: promotion form, direct traditional short video advertising promotion form; such promotions can more freely shape the brand image in the video content.

Based on the literature review and combining the findings of Semaan et al. (2018), Rehman and Al-Ghazali (2022), and Harsono et al. (2018), advertising can promote the brand image of goods, which in turn affects consumers' purchase intentions. In addition, considering the findings of Zhao and Wang (2020), Luo and Zeng (2022), Wang (2020), Fan and Xu (2020), and Zhu (2018), short video platforms can moderate the relationship between light and color of advertising photography and brand image.

Scholars have conducted rich research on the effect of advertising on consumer's purchase intention. At the same time, the S-O-R model has also been studied in depth. However, only some scholars have used the S-O-R model to study the effects of advertising photography characteristics on consumers' purchase intentions. Therefore, this study uses the S-O-R model to study the effects of advertising photography on consumers' purchase intentions.

Therefore, the purpose of this study is to use the S-O-R model to explore the relationship between light and color of advertising photography, consumer purchase intention, brand image, and short video platforms through an empirical research method.

Moreover, it checks the mediating effect of brand image on the relationship between light and color of advertising photography and consumers' purchase intentions and the moderating effect of short video platforms in the relationship between light and color and brand image. The hypotheses of this study are as follows:

- H1: Light and color of advertising photography promote consumers' purchase intention.
- *H2: Light and color of advertising photography promote brand image.*

- H3: Brand image promotes consumers' purchase intention.
- H4: Brand image plays a mediating role in the relationship between light and color of advertising photography and consumers' purchase intention.
- H5: The short video platform has a moderating role in the relationship between light and color of advertising photography and brand image.

2. METHODOLOGY

To achieve the purpose of this study, a quantitative research method was used, and a questionnaire was employed as the research instrument. The population of this study was consumers in East China who purchased detergent products by perceiving the light and color of advertisements through short video platforms. According to Anderson and Gerbing (1988), the data from 200 questionnaires were identified as the research sample for this study. Non-probability purposive sampling was employed.

The data were collected using a Google Forms questionnaire on social media platforms. The current study used four five-point Likert scales to measure the relationship between the variables. As suggested by Feng et al. (2006), the study classified consumer purchase intention into five levels according to the intensity of purchase intention: intense, strong, average, weak, and very weak. The five-point Likert scale for light use was adopted from Gu (2016). The Likert scale of color use was adapted from Zhang (2014). The Likert scale of the brand image was adapted from Guo et al. (2006); the short video platform was based on Bi et al.'s (2019) Likert scale.

The questionnaire is divided into two parts. The first part is a brief introduction to the questionnaire containing nine essential pieces of information about the surveyed consumers. The second part is an evaluation of the factors that influence the performance of advertising photography on consumers' willingness to buy, containing five questions about the use of light, four questions about the use of color, one question about short video platforms, and four questions about brand image (Appendix A).

3. RESULTS

In this study, five experts were searched for item-objective congruence evaluation. As a result, the IOC values of the three first-level indicators relative to consumers' purchase intention are 1, 0.8, and 0.8, all of which are greater than 0.5. Therefore, the three first-level indicators passed the project goal consistency test.

The IOC values of the two secondary indicators relative to the color of advertising photography are 0.8 and 1, respectively, which are greater than 0.5. Therefore, the two secondary indicators passed the project goal consistency test. The IOC value of the secondary indicator relative to the short video platform is 0.8, which is greater than 0.5. Therefore, this secondary indicator passed the project goal consistency test.

The IOC values of the four secondary indicators relative to the brand image are 1, 0.8, 0.8, and 1, which are all greater than 0.5. Therefore, the four secondary indicators passed the project goal consistency test. The IOC values of the five tertiary indicators relative to the use of light are 0.8, 0.8, 0.8, 0.8, and 1, which are all greater than 0.5. Therefore, the five tertiary indicators passed the project goal consistency test.

The IOC values of the five tertiary indicators relative to the color use are -0.4, 0.8, 1, 0.8, 0.8, the IOC value of B1 is -0.4, which is less than 0.5, and the IOC values of the other four tertiary indicators are all greater than 0.5. Among the five three-level indicators of the questionnaire in this study, the B1 index failed the project goal consistency test and was deleted from the questionnaire; other indicators passed the project goal consistency test.

After passing the consistency test of the project objectives, the questionnaire was readjusted according to experts' suggestions, and then the data of 39 consumers were randomly selected and recovered. By testing the reliability of the five items in the dimension of the use of light, Cronbach's α value is 0.779, which is greater than 0.7. Therefore, the use of light dimension passes the reliability test. By testing the reliability of the four items in the color use dimension, Cronbach's alpha value is 0.821, which is greater than 0.7. Therefore, the color use dimension passes the reliability test.

By testing the reliability of nine items in the dimension of light and color, Cronbach's alpha value is 0.871, which is greater than 0.7. Therefore, the light and color dimension passed the reliability detection. By testing the reliability of the four items in the dimension of brand image, Cronbach's alpha value is 0.879, which is greater than 0.7. Therefore, the dimension of brand image passed the reliability test. By testing the reliability of the 14 items of the questionnaire, Cronbach's alpha value was 0.879, which was greater than 0.7. Therefore, the entire questionnaire passed the reliability test.

In this study, ten experts were searched for content validity evaluation. Experts with a score of 3 or 4 were filled with 1, and experts with a score of 1 or 2 were filled with 0. The evaluation results of the ten experts were added up and divided by the number of experts to obtain the I-CVI value. If all expert evaluations are 1, the UA value of the item is 1; otherwise, the UA value is 0. The study adds the I-CVI values and divides them by the number of items to get the S-CVI/Ave value; it adds the UA values and divides them by the number of items to get the S-CVI/UA value. The expert scores are as follows.

The I-CVI of the five items in the use of light was all greater than 0.78, the S-CVI/AVE was 0.96, greater than 0.9, and the S-CVI/UA was 0.8, indicating that the content validity of the five items of the scale was excellent.

Among the five items in the color use, the I-CVI of the B2-B5 item is greater than 0.78, the I-CVI of the B1 item is 0.6, less than 0.78, and the S-CVI/ AVE of the five items is 0.92, greater than 0.9, S -CVI/UA is 0.8. This indicates that among the five items of the scale, B2-B5 items have excellent content validity, and B1 items have average content validity, so they should be deleted.

Among the ten items in light and color dimension, the I-CVI of B1 item is 0.6, less than 0.78, the

I-CVI of other items is greater than 0.78, and the S-CVI/AVE of 10 items is 0.94, greater than 0.9, S -CVI/UA is 0.8. This indicates that among the ten items of the scale, the content validity of the B1 item is average and should be deleted. The content validity of other items is excellent.

One item I-CVI in the short video platform is greater than 0.78, S-CVI/AVE is 1, greater than 0.9, and S-CVI/UA is 1, indicating that the content validity of one item of the scale is excellent. In addition, the I-CVI of the four items in the brand image are all greater than 0.78, the S-CVI/AVE is 1, greater than 0.9, and the S-CVI/UA is 1, indicating the content validity of the four items is excellent.

Among the 15 items of consumer purchase intention, the I-CVI of B1 item is 0.6, less than 0.78, the I-CVI of other items is greater than 0.78, and the S-CVI/AVE of 15 items is 0.97, greater than 0.9, S -CVI/UA was 0.83. This indicates that among the 15 items, the content validity of the B1 item was average and should be deleted, and the content validity of other items was excellent.

After passing the reliability and content validity test, the questionnaire was distributed to the target group. Anderson and Gerbing (1988) suggested that there should be at least 150 samples when constructing the model. Therefore, two hundred questionnaires were distributed in this survey; 200 were distributed through the questionnaire star system, 200 were recovered, 36 invalid questionnaires were removed, and the remaining were 164 valid questionnaires, with an effective rate of 82%.

SPSS analyzed the data from 164 valid questionnaires collected in this study, and the results were as follows. By testing the reliability of the 5 items in the dimension of the light use, Cronbach's α value is 0.856, which is greater than 0.7. Therefore, the data pass the reliability test. By testing the reliability of the four items in the color use dimension, Cronbach's α value is 0.847, which is greater than 0.7. Therefore, the data pass the reliability test. By testing the reliability of the four items in the dimension of brand image, Cronbach's alpha value is 0.881, which is greater than 0.7. Therefore, the data pass the reliability test. Finally, by testing the reliability of the 14 items of the questionnaire, Cronbach's alpha value is 0.908, which is greater than 0.7. Therefore, the data of the whole questionnaire pass the reliability test.

The basic conditions of the surveyed consumers mainly include gender, age, educational background, and location. The statistical results are shown in Table 1. From the perspective of consumer gender, women account for 56.1%; from the perspective of age, 51-60 years old group accounts for 30.49%. From the perspective of regions, the consumers in this survey involve Shanghai city, Jiangsu province, Zhejiang province, Anhui province, Jiangxi province, Fujian province, and Shandong province, in addition to six provinces and one municipality, covering the entire East China. In general, the sample involves consumers from different regions, educational backgrounds, ages, and industries, which can roughly reflect consumers' purchase intentions in East China for washing and chemical products.

Item	Quantity	Percent
	Gender	
Male	72	43.9%
Female	92	56.1%
Missing	0	0%
Total	164	100%
	Age	
Under 20 years old	39	23.78%
20-30 years old	27	16.46%
31-40 years old	19	11.59%
41-50 years old	27	16.46%
51-60 years old	50	30.49%
Over 60 years old	2	1.22%
Missing	0	0%
Total	164	100%
Aca	demic qualificatio	ns
High School and below	43	26.22%
Specialty	33	20.12%
Undergraduate	42	25.61%
Master's Degree	26	15.85%
Doctoral students	20	12.20%
Missing	0	0%
Total	164	100%
	Location	
Shanghai	26	15.85%
liangsu	25	15.24%
Zhejiang	25	15.24%
Anhui	23	14.02%
Jiangxi	20	12.21%

Item	Quantity	Percent
Fujian	22	13.42%
Shandong	23	14.02%
Missing	0	0%
Total	164	100%
· · ·	Years of work	
Not working	41	25%
1-5 years	30	18.29%
6-10 years	32	19.51%
11-15 years	35	21.35%
15 years or more	26	15.85%
Missing	0	0%
Total	164	100%
· · · · · · · · · · · · · · · · · · ·	Career	
Civil servant	21	12.80%
Career staff	25	15.24%
Enterprise workers	39	23.78%
High school student	45	27.44%
Others	34	20.74%
Missing	0	0%
Total	164	100%
	ature of the unit	100%
1	21	12.81%
Government agency Business unit	40	24.39%
State-owned	40	24.3370
enterprises	25	15.24%
Private enterprise	22	13.41%
Private enterprise	23	14.02%
Individual business	11	6.71%
Foreign-invested enterprises	11	6.71%
Others	11	6.71%
Missing	0	0%
Total	164	100%
	thly income rang	
Less than 3000 RMB	33	20.12%
3000-5000RMB	53	32.32%
5001RMB-10,000RMB	54	32.93%
10000RMB or more	24	14.63%
Missing	0	0%
Total	164	100%
Number of times to		
Less than 5 times	15	9.15%
5-10 times	26	15.85%
11-15 times	20	14.63%
16-20 times	51	31.10%
More than 20 times	48	29.27%
Missing	0	0%

Consumer purchase intention, brand image, short video, and light and color all have significant positive correlations ($\beta = 0.858$, p < 0.01; $\beta = 0.566$, p < 0.01; $\beta = 0.275$, p < 0.01). There is a significant positive correlation between video and consumer purchase intention ($\beta = 0.763$, p < 0.01; $\beta = 0.554$, p

164

Total

Table 1. Sample distribution

100%

Variable	Light and color	Consumer purchase intention	Brand	Short video
Light and color	1			
Consumer purchase intention	0.858**	1		
Brand	0.566**	0.763**	1	
Short video platform	0.275**	0.554**	0.285**	1

Table 2. Mean, variance and Pearson correlation coefficient of main variables

Note: n = 164; ** p < 0.01, * p < 0.05.

Table 3. VIF values

Variable	VIF	1/VIF
Short video platform	1.43	0.700862
Brand	1.66	0.600942
Light and color	1.56	0.642167
Mean VIF	1.55	

< 0.01), and between short video and brand image ($\beta = 0.285$, p < 0.01). Based on the data in Table 3, it can be seen that the VIF values for each variable are less than 2, indicating that the regression analysis process in this study does not suffer from multiple severe co-linearity problems.

Regression analysis was carried out with the color and light as the independent variable and consumers' purchase intention as the dependent variable, as shown in Table 4.

Table 4 shows that the Beta coefficient of light application is 0.910, and the significance is 0; it shows that the influence of light and color on consumers' purchase intention is positive and significant. Thus, H1 is verified.

Taking light and color of advertising photography as an independent variable, brand image as an intermediary variable, and consumers' purchase intention as a dependent variable, the regression analysis was carried out, and the coefficients in Tables 5-8 were obtained.

Table 5 shows that the Beta coefficient of light use is 0.566, and the significance is 0, indicating that the influence of light and color on brand image is positive and significant. Thus, H2 is verified.

Table 6 shows that the Beta coefficient of brand image is 0.810, and the significance is 0, indicating that the influence of brand image on consumers' purchase intention is positive and significant. Thus, H3 is verified.

Table 4. Linear regression coefficients of the relationship between light and color and consumers'purchase intention

Model		Unstandardized coefficients		Standardized coefficient	t	Salience	
		В	Standard error	Beta			
1	(constant)	0.432	0.101		4.267	0.000	
1	Light and color	0.874	0.031	0.910	27.920	0.000	

Note: a. Dependent variable: Consumers' purchase intention.

	Unstandardized coefficients		Standardized coefficient	t	Salience		
		В	Standard error	Beta			
1	(constant)	1.137	0.260		4.369	0.000	
Ţ	Light and color	0.703	0.080	0.566	8.731	0.000	

Note: a. Dependent variable: Brand image.

Table 6. Linear regression coefficients of the relationship between brand image and consumers' purchase intention

	Model	Unstandard	ized coefficients	Standardized coefficient	t	Salience	
		В	Standard error	Beta			
1	(constant)	1.096	0.123		8.895	0.000	
1	Brand	0.626	0.036	0.810	17.556	0.000	

Note: a. Dependent variable: Consumers' purchase intention.

Table 7. Linear regression coefficients of the relationship between light and color and consumers' purchase intention

	Model	Unstandard	ized coefficients	Standardized coefficient	t	Salience	
		B Stai		Beta			
1	(constant)	0.432	0.101		4.267	0.000	
Ţ	Light and color	0.874	0.031	0.910	27.920	0.000	

Note: a. Dependent variable: Consumers' purchase intention.

Table 8. Linear regression coefficients of the relationship between light and color, brand image, and consumers' purchase intention

Model		Unstandardized coefficients		Standardized coefficient	t	Salience	
		В		Beta			
1	(constant)	0.432	0.101		4.267	0.000	
T	Light and color	0.874	0.031	0.910	27.920	0.000	
	(constant)	0.051	0.054		.931	0.353	
2	Light and color	0.638	0.019	0.665	33.093	0.000	
	Brand	0.335	0.016	0.434	21.595	0.000	

Note: a. Dependent variable: Consumers' purchase intention.

Table 9. Moderating effect coefficients

			ndardized fficients	Standardized coefficient		Callianas	Collinearity S	tatistics
	Model	Model B standard error		Beta	t	Salience	Tolerance	VIF
	(constant)	3.364	0.051		65.549	0.000		
1	Zscore (light and color)	0.449	0.051	0.566	8.731	0.000	1.000	1.000
	(constant)	3.364	0.051		66.243	0.000		
2	Zscore (light and color)	0.419	0.053	0.527	7.904	0.000	0.925	1.082
	Zscore (short video)	0.112	0.053	0.141	2.109	0.037	0.925	1.082
	(constant)	3.330	0.051		64.673	0.000		
	Zscore (light and color)	0.382	0.054	0.480	7.095	0.000	0.863	1.158
3	Zscore (short video)	0.140	0.053	0.176	2.634	0.009	0.889	1.125
	Short video X-ray color	0.126	0.047	0.176	2.674	0.008	0.919	1.089

Note: a. Dependent variable: Brand image.

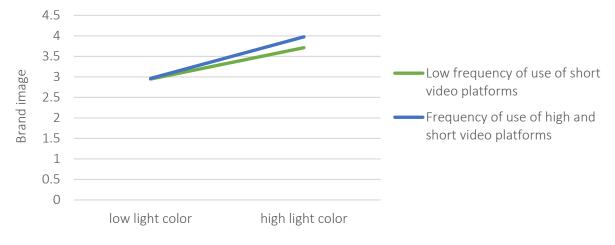


Figure 1. Line chart of moderating effect

The Beta coefficient of light and color in Table 7 is 0.910, and the significance is 0, indicating that the influence of light and color on consumers' purchase intention is positive and significant. Table 8 shows that the Beta coefficient of light use is 0.910, and the significance is 0 in Model 1, while in Model 2, the Beta coefficient of light use is 0.665, and the importance is 0. The Beta coefficient of the brand image is 0.434, and the significance is 0. It can be seen that in Tables 5-7, each significant coefficient is less than 0.05. In Model 2 of Table 8, the Beta coefficient is weakened, indicating that the brand image is between color and light and the willingness of consumers to buy. Thus, there is a partial mediation effect, and H4 is verified.

It can be seen from Model 3 in Table 9 that the Beta coefficient of the Z score of light and color is 0.480, and its significance coefficient is 0. The Beta coefficient of the Z score of the short video is 0.176, and its significance coefficient is 0.009. The Beta coefficient is 0.047, and its significance coefficient is 0.008, less than 0.05. To further show the adjustment effect of the short video platform on the relationship between the light and color of advertising photography and the brand image, through excel, according to the data in Table 9, a line chart of the adjustment effect was drawn, as shown in Figure 1.

The following conclusions can be drawn from the data in Figure 1 and Table 9: a short video has an adjustment effect between light and color and brand image, and H5 passes the verification.

4. DISCUSSION

The study results show that the light and color of advertising photography affect consumers' purchase intention. The significance of light and color is 0.000, which means that light and color can promote consumers' purchase intention. In addition, according to the results, light and color can influence the product's brand image, and the product's brand image can promote consumers' purchase intention.

Brand image influences how light and color impact consumers' purchase intention. The results show that the value of the relationship between light and color and consumers' purchase intention was recalculated after adding a brand image as a mediating variable (standardized coefficient = 0.665, significance 0). This implies that brand image influences how light and color influence consumers' purchase intention. These results are consistent with Semaan et al. (2018), Rehman and Al-Ghazali (2022), and Harsono et al. (2018).

In the context of the increased sophistication of short video technology, the short video platform was able to moderate the relationship between light and color and brand image. Furthermore, the results showed that the value of the relationship between light and color and brand image was recalculated after adding the short video platform as a moderating variable (standardized coefficient = 0.176, significant at 0.008, less than 0.01). This means that the short video platform moderated the relationship between the light and color of advertising photography and brand image. These results are consistent with the findings of Zhao and Wang (2020), Luo and Zeng (2022), Wang (2020), Fan and Xu (2020), and Zhu (2018).

CONCLUSION

This study aims to verify the direct effect of light and color of advertising photography on consumers' purchase intentions, the mediating effect of brand image in the relationship between light and color and consumers' purchase intentions, and the moderating effect of short video platforms in the relationship between light and color and brand image. The results of the study confirmed the five hypotheses of the research model. In addition, the findings suggest that light and color and brand image can promote consumers' purchase intentions.

In addition, brand image is an essential intermediary between the light and color of advertising photography and consumers' willingness to buy. In other words, when companies promote their products through advertising photography, they need to pay attention to the light and color of advertising photography, which can improve the brand image of products and thus promote consumers' willingness to buy. In addition, short video platforms, to strengthen the supervision of corporate advertising photography, can better regulate the relationship between light and color and brand image, which can better establish the brand image of products for enterprises and ultimately promote consumer purchase.

However, this study has the following areas for improvement. First, the sample of this study was East China, and future studies could consider the whole of China or the whole world. In addition, future research could consider studying the relationship between other factors of advertising photography presentation and consumers' purchase intention. For example, consumers appreciate advertising photography not only through two factors of light and color, but may evaluate products from other aspects of advertising photography presentation according to the nature of different products, thus making final purchase decisions.

AUTHOR CONTRIBUTIONS

Conceptualization: Fenglei Chen, Khunanan Sukpasjaroen, Thitinan Chankoson. Data curation: Fenglei Chen. Formal analysis: Fenglei Chen. Investigation: Fenglei Chen, Khunanan Sukpasjaroen, Thitinan Chankoson. Methodology: Fenglei Chen. Resources: Thitinan Chankoson. Software: Fenglei Chen. Supervision: Khunanan Sukpasjaroen, Thitinan Chankoson. Validation: Fenglei Chen. Visualization: Fenglei Chen, Khunanan Sukpasjaroen, Thitinan Chankoson. Writing – original draft: Fenglei Chen, Khunanan Sukpasjaroen, Thitinan Chankoson. Writing – review & editing: Fenglei Chen, Thitinan Chankoson.

ACKNOWLEDGMENT

This paper is part of the Doctor of Philosophy Program in Management, Chakrabongse Bhuvanarth International Institute for Interdisciplinary Studies (CBIS), Rajamangala University of Technology Tawan-OK, Thailand. The researchers would like to thank all cited experts that contributed to this study.

REFERENCES

- Ajzen, I., & Fishbein, M. (1977). Attitude-behavior relations: A theoretical analysis and review of empirical research. *Psychological Bulletin*, 84(5), 888-918. https://doi.org/10.1037/0033-2909.84.5.888
- Anderson, J. C., & Gerbing, D. W. (1988). Structural equation modeling in practice: A review and recommended two-step approach. *Psychological Bulletin*, 103(3), 411-423.
- Bao, W. (2021). Research the strategy of short video advertising communication from UGC's new media communication perspective. *Journal of News Research*, 12(21), 38-40.
- Bearden, W. O., & Etzel, M. J. (1982). Reference group influence on product and brand purchase decisions. *Journal of Consumer Research*, 9(2), 183-194. https:// doi.org/10.1086/208911
- Bi, X., Tang, C., & Xiao, Q. (2019). Response to short video social media public opinion crisis. *Library*, 10(06), 74-80, 87.
- Chen, C. C., & Yao, J. Y. (2018). What drives impulse buying behaviors in a mobile auction? The perspective of the stimulus-organism-response model. *Telematics & Informatics*, 35(5), 1249-1262. https://doi. org/10.1016/j.tele.2018.02.007
- Chen, Y. (2022). Research the communication strategy of short video advertisements in the era of intelligent media – Taking Douyin as an example. *News Culture Construction*, 7(04), 170-172.
- Davis, L. L. (1992). Instrument review: Getting the most from your panel of experts. *Applied Nursing Research*, 5(4), 194-197. https://doi.org/10.1016/S0897-1897(05)80008-4
- Dodds, W. B., Monroe, K. B., & Grewal, D. (1991). Effects of price, brand, and store information on buyers' product evaluations. *Journal of Marketing Research*, 28(3), 307-319. https://doi. org/10.2307/3172866

- Eroglu, S., Machleit, K., & Davis, L. M. (2001). Atmospheric qualities of online retailing. *Journal of Business Research*, 54(2), 177-184. https://doi.org/10.1016/S0148-2963(99)00087-9
- 11. Fan, C., & Xu, J. (2020). Research the effect of short video scene marketing on city brand building and dissemination. *Electronic Commerce*, 2(07), 52-23.
- Fang, S. (2015). The connection between brand design and corporate culture. *Modern Economic Information*, 9(18), 18-19.
- Feng, J., Mu, W., & Fu, Z. (2006). A review of consumers' purchase intention research. *Modern Management Science*, 54(11), 7-9.
- Fishbein, M., & Ajzen, I. (1975). Believe, attitude, intention, and behavior: An introduction to theory and research. Reading, MA: Addison-Wesley. https://doi. org/10.1037/h0076477
- Friedrich, T., Schlauderer, S., & Overhage, S. (2019). The impact of social commerce feature richness on website stickiness through cognitive and affective factors: An experimental study. *Electronic Commerce Research and Applications*, *36*, 100861. https://doi.org/10.1016/j.elerap.2019.100861
- 16. Gao, Z. (2017). Research on the influence of the brand origin image on consumer purchase intention: An empirical study based on the laptop student market. *7th International Conference on Management, Education, Information and Control* (pp. 704-708). Atlantis Press.
- Gong, Q. Y. (2020). Deficiencies and ways to improve the garment industry in Zhejiang Province under the brand model. *International Textile Herald*, 48(06), 55-59.
- Gu, Z. (2016). Fiction, scrutiny and reflection – Reflections on the relationship between contemporary Chinese

photography and digital technology. *Art and Design Research*, *16*(03), 54-58.

- Guo, X., Lv, J., & Wu, X. (2006). Research on the evaluation method of brand image. *Business Research*, 5(22), 61-63.
- Harsono, S., Perdana, S., Riyadi, D. B., & Normasita. (2018). The influence of brand image, brand trust, perceived quality and value on consumer purchase intention at different product categories. *Advanced Science Letters*, 20(5), 3198-3207. http://dx.doi. org/10.1166/asl.2018.11343
- Hu, B., & Yao, J. (2021). On the influence of brand image on consumers' purchase intention and enterprise decision-making: A review of social scientists of brand image recognition and communication. *Journal of News Research*, 10(07), 169.
- 22. Huang, F. (2020). Research the marketing model and commercial value of short videos in the new media era. *Marketing*, *25*(21), 36-39.
- Huang, R., Lu, J., Qi, Y., Ran, P., Tang, Y., & Wen, Y. (2020). A study on the influencing factors of consumers' purchase behavior of regional brands of agricultural products: Taking Sichuan Province's fruits regional brands as an example. *Modern Marketing* (*Late Issue*), 6(05), 74-78.
- 24. Jiang, J., Li, X., Meng, C., & Shi, F. (2017). Research on the purchase intention of online group buying consumers based on the SOR model. *Business Economics Research*, 29(20), 53-55.
- Lai, J., & Xu, B. (2016). Discussion on the influencing factors of China's agricultural products brand competitiveness. *Business Economics Research*, 13(21), 154-156.
- Li, D., & Zhong, T. (2015). Photography and graphic art design. *Popular Literature and Art*, *13*(07), 133-134.
- 27. Li, L., & Taiwan, R. (2020). The construction of brand image by

social media advertising: Taking Durex brand as an example. *Journal of News Research*, 11(10), 24-25.

- Liao, J. (2018). Research on the teaching reform of innovation and entrepreneurship practice in cultural industry management. *News Research Guide*, 15(22), 31-32.
- Lin, C. T. L., & Chuang, S. S. (2018). The importance of brand image on consumer purchase attitude: A case study of e-commerce in Taiwan. *Studies in Business and Economics*, *13*(3), 91-104. https://doi.org/10.2478/ sbe-2018-0037
- Liu, G. F., Li, L. L., Xu, H. M., & Luo, M. Q. (2019). Research on the influence of online video bullet-screen advertising marketing on consumers' purchasing intention. 5th International Conference on Social Science and Higher Education (pp. 427-432). Atlantis Press.
- Loebnitz, N., & Grunert, K. G. (2022). Let us be realistic: The impact of perceived brand authenticity and advertising image on consumers' purchase intentions of food brands. *International Journal of Consumer Studies*, 35(01), 309-323. https:// doi.org/10.1111/ijcs.12679
- Luo, C., & Zeng, J. (2022). Research on short video advertising communication strategy. *Modern Business*, 5(07), 3-5. http://dx.doi.org/10.18686/ mcs.v2i4.1361
- 33. Luqman, A., Cao, X., Ali, A., Masood, A., & Yu, L. (2017). An empirical investigation of Facebook discontinues usage intentions based on the SOR paradigm. *Computers in Human Behavior*, 70(11), 544-555. https:// doi.org/10.1016/j.chb.2017.01.020
- 34. Ma, R. (2013). Rational function model in processing historical aerial photographs. *Photogrammetric Engineering* & *Remote Sensing*, 79(4), 337-345. https://doi.org/10.14358/ PERS.79.4.337
- Meng, X., Que, Y., Wang, Y., Wang, J., Yang, Y., & Yang, J. (2020).

Research on the brand equity of exhibitions from the perspective of "Internet +." *Rural Economy* and *Technology*, *18*(07), 195-197.

- Miller, S., & Berry, L. (1998). Brand salience versus brand image: two theories of advertising effectiveness. *Journal of Advertising Research*, 38(5), 77-78.
- Ni, W., & Zhu, A. (2019). Research on the influence of source country information on consumers' purchase intention. *Industry and Technology Forum*, 18(06), 92-94.
- Ogilvy, D., & Horgan, P. (1963). *Confessions of an advertising man* (192 p.). New York: Atheneum.
- Parasuraman, A., Berry, L. L., & Zeithaml, V. A. (1991). Understanding customer experience of service. The MIT Sloan Management Review. Retrieved from https://sloanreview.mit.edu/article/understanding-customer-expectations-ofservice/
- Rehman, F. ur, & Al-Ghazali, B. M. (2022). Evaluating the influence of social advertising, individual factors, and brand image on the buying behavior toward fashion clothing brands. *SAGE Open*, *12*(1). https://doi. org/10.1177/21582440221088858
- Rovinelli, R. J., & Hambleton, R. K. (1977). On the use of content specialists in the assessment of criterion-referenced test item validity. *Tijdschrift Voor Onderwijs Research*, 2, 49-60. https://doi. org/10.1177/014662168601000307
- Semaan, R. W., Kocher, B., & Gould, S. (2018). How well will this brand work? The ironic impact of advertising disclosure of body-image retouching on brand attitudes. *Psychology & Marketing*, 35(10), 766-777. https://doi. org/10.1002/mar.21133
- 43. Shan, W., Wang, Y., Luan, J., & Tang, P. (2019). The influence of physician information on patients' choice of physician in health services using China's Chunyu Doctor App: Eyetracking and questionnaire study. *JMIR mHealth and uHealth*, 7(10), e15544. https://doi. org/10.2196/15544

- Song, Z., & Tang, X. (2019). Research on the influence of price and evaluation on consumers' online purchase intention based on the SOR model. *Practice and Understanding of Mathematics*, 49(14), 1-9.
- 45. Sun, L. (2015). A study on personalized language of business card design. Nanjing Art Institute.
- Waltz, C. F., Strickland, O. L., & Lenz, E. R. (2005). *Measurement in nursing and health research* (5th ed.). New York: Springer.
- Wang, L. (2020). Research on the construction and dissemination of Linyi city brand image by a short video. *New Media Research*, 6(14), 35-36.
- Wu, P., & Zhang, Z. (2017). Strengthening brand building and reshaping corporate culture to adapt to market competition. *China Salt Industry*, 16(08), 32-33.
- Wu, S. I., & Jang, J. Y. (2014). The impact of ISO certification on consumers' purchase intention. *Total Quality Management & Business Excellence*, 25(3-4), 412-426. https://doi.org/1 0.1080/14783363.2013.776770
- 50. Wu, Z., & Xu, C. (2019). UGC short video to build the strategy of ice and snow tourism city brand image-taking the development of ice and snow tourism industry in Qiqihar City as an example. *Audiovisual*, 3(01), 174-175.
- Xie, X.-X., Tsai, N-C., Sheng-Quan, X., & Bao-Yi, Z. (2019). Does customer co-creation value lead to electronic word-of-mouth? An empirical study on the shortvideo platform industry. *The Social Science Journal*, *56*(3), 401-416. https://doi.org/10.1016/j. soscij.2018.08.010
- 52. Yang, Q., Liu, S., Li, Y., & Kang, H. (2022). A matching study on the influence of advertised information expression and product type on consumer purchase intention. *Frontiers in Psychology*, 28(04), 1-13. https://doi.org/10.3389/ fpsyg.2022.859959
- 53. Zhang, L. (2019). Realization and management transformation of

social responsibility of rural small and micro enterprises from the perspective of green production. *Agricultural Economics*, *12*(02), 105-107.

- Zhang, R., & Zheng, C. (2019). Discussion on impulsive buying behavior of consumers. *Modern Commerce and Industry*, 40(05), 58-59.
- 55. Zhang, W. (2014). A study on the relationship between advertising photography performance and audience psychology. Qiqihar University.
- 56. Zhang, Z., & Wu, P. (2017). Strengthening brand building

remodeling corporate culture to adapt to market-oriented competition. *China Salt Industry*, 8, 32-33.

- Zhao, J., & Wang, J. (2020). Health advertising on short-video social media: A study on user attitudes based on the extended technology acceptance model. *International Journal of Environmental Research and Public Health*, 17(5), 1501. https://doi.org/10.3390/ ijerph17051501
- Zhao, Y. (2020). The construction of the tourism brand image of ancient capitals from the perspective of a short video –

Taking Xi'an as an example. *New Media Research*, *3*(08), 51-52, 65.

- Zheng, G. (2015). The closest to the true meaning of photography
 On Tao Lanyue's photographic practice. *Chinese Photography*, *12*(01), 22-55.
- Zheng, L. (2010). Chinese contemporary photography catalogue. Hangzhou: Zhejiang Photography Publishing House.
- 61. Zhu, J. (2018). Short video advertising and brand communication. *Southern Entrepreneur*, 9(03), 206-208.

APPENDIX A. A questionnaire on the performance of advertising photography of washing products and consumers' purchase intention

Dear consumer,

I am a Ph.D. student at the Rajamangala University of Technology Tawan-ok, and I am conducting academic research on the influence of the advertising photographic performance of washing products on consumers' purchase intention. To this end, I have designed this questionnaire and invite you to help fill it out.

This questionnaire has multiple-choice questions; please fill it in according to your situation. Your answers are fundamental to our research; I promise that all information will be used for academic research only, and your information will be kept strictly confidential. Thank you very much for taking the time to participate in the survey; I appreciate your participation!

Part 1: Basic information (please tick " \vee " at the corresponding option)

1. Gender Male	D. 11-15 years E. Over 15 years
Female	
	6. Profession
2. Age	A. Civil servant
Under 20 years old	B. Business unit staff
20-30 years old	C. Corporate staff
31-40 years old	D. College student
41-50 years old	E. Other
51-60 years old	
Over 60 years old	7. Type of organization
	A. Government agency
3. Education	B. Business Unit
A. High middle school and below	C. State-owned enterprise
B. Specialist	D. Private enterprise
C. Undergraduate	E. Self-employed
D. Postgraduate	F. Foreign company
E. Ph.D. Student	G. Other

4. Location

A. Shanghai city
B. Jiangsu province
C. Zhejiang province
D. Anhui province
E. Jiangxi province
F. Jiangxi province
G. Shandong province

5. Working experience

A. No experience B. 1-5 years C. 6-10 years

8. Monthly income

A. Below 3000 yuan B. 3000-5000 yuan C. 3000-5000 yuan D. Over 10000 yuan

9. The number of times you buy laundry products per year
A. 5 and below
B. 5-10 times
C. 11-15 times
D. 16-20 times
E. Over 20 times

Part 2: Evaluation of the influencing factors of the performance of advertising photography on consumers' purchase intention

Please judge how strongly each description affects you, and tick " $\sqrt{}$ " below the corresponding option.

Use of light

1. The brighter lighting of the advertising photography affects the attractiveness of this washing product.

 \Box Intense \Box Strong \Box Medium \Box Weak \Box Very weak

2. The low light of the advertising photography will affect the attractiveness of this wash-off product.
 □ Intense □ Strong □ Medium □ Weak □ Very weak

3. The light position of the advertising photography affects the attractiveness of this wash-off product.

 \Box Intense \Box Strong \Box Medium \Box Weak \Box Very weak

4. The photographic photograph of a washable product in the artificial light environment affects the attractiveness of this washable product.

 \Box Intense \Box Strong \Box Medium \Box Weak \Box Very weak

5. The photographic photograph of a cleaning product in the natural light environment affects the attractiveness of this cleaning product.

 \Box Intense \Box Strong \Box Medium \Box Weak \Box Very weak

Use of color

1. The bright color of the washed product in the advertising photography affects the attractiveness of this washed product.

 \Box Intense \Box Strong \Box Medium \Box Weak \Box Very weak

2. The dark color of the washing product in the advertising photography will affect the attractiveness of this washing product.

 \Box Intense \Box Strong \Box Medium \Box Weak \Box Very weak

3. The color of the washing product in the advertising photography is cold (cold means that the color is bluish, giving the viewer a cold visual feeling), which affects the attractiveness of this washing product.

 \Box Intense \Box Strong \Box Medium \Box Weak \Box Very weak

4. Warm color affects the attractiveness of the products you buy.

 \Box Intense \Box Strong \Box Medium \Box Weak \Box Very weak

Short video platform

1. Advertising photography is disseminated through short video platforms (such as Douyin, Kuaishou, Xiaohongshu, WeChat video accounts, etc.) to influence the attractiveness of this washing product.

 \Box Intense \Box Strong \Box Medium \Box Weak \Box Very weak

Brand image

1. The brand corporate image affects the attractiveness of this washing product.

 \Box Intense \Box Strong \Box Medium \Box Weak \Box Very weak

2. The brand's product image affects the attractiveness of this washing product.

 \Box Intense \Box Strong \Box Medium \Box Weak \Box Very weak

- 3. The brand's symbolic image (product trademark) affects the attractiveness of this washing product. □ Intense □ Strong □ Medium □ Weak □ Very weak
- 4. The brand's communication image affects the attractiveness of this washing product. □ Intense □ Strong □ Medium □ Weak □ Very weak

This is the end of the questionnaire. Thank you again for your support and help!