



" Meeting point for surgery..."

Aygün has the right to modify and develop the products declared in this catalogue and its production program.

The weight and dimensional information given in our catalog are approximate values.

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www.aygun.com

OUR HISTORY

AYGÜN, one of the leading establishments of Turkey in the field of Medical Industry, was founded in 1988. It manufactures Container Systems for sterilization, Surgical Motor Systems, Medical Illumination Systems and Single Use Medical Systems in its facility at Samsun Central Organized Industrial Zone.

AYGÜN meets the needs of significant part of Turkey as a result of its continuous R&D works and the capacity increasing. It manufactures its products in international standards and put them to the world market with a high competitive power. Moreover with its integrated quality management system, it proves that it is a specialized establishment.

Besides being a manufacturer, AYGÜN is also a designer company and with its continuous product development works it increases number of its patents, on the other hand, is contributing career development of rising generation by acting as a school.







STERILIZATION CONTAINERSYSTEMS

All AYGUN sterilization container systems are designed for perfect steam penetration, traceability, safety and stability. The locking mechanisms secure excellent grip and ensure up and down movement of the lids under steam pressure during the sterilization. We service our bottoms and lids made of 2 mm high quality special alloy aluminum raw material to the whole world with 8 basic color options.

CONTAINER **MODELS**

Standard Plus Model Standard model Bio-Barrier Model PPSU Model Window Model B3 Model Plasma Model A1 Model Safe Model

SURGICAL MOTOR SYSTEMS

The expertise of AYGÜN in surgical motor systems gathered up many designs and systems that have special structures servicing from neuro and spinal surgery to many fields like cardiovascular, orthopedic, plastic, hand & foot and maxillofacial surgery. The quality, power and ergonomic design of the new generation of high-tech battery powered surgical motor systems once again demonstrates AYGÜN's expertise in the medical field.

SURGICAL MOTOR SYSTEM **MODELS**

Scoren

Karınca 206

Karınca 208

Dermatome Bes

Dermatome ST-5

Skin Graft Mesher

Raptor SPS4

Praxis 3

Praxis 3B

Sternal Saw 3B

HSM Micro System

HSM 2 Neuro & Spine System

Mini Bone 40.000 rpm

Mini Bone Monoblock

Arthroscopy Shaver

Mini Surgical Motor

Mini Compact

Neuro Air Power

Standard Macro

EPS Motor System

Macro Compact

Mobil Stator



SURGICAL ILLUMINATIONSYSTEMS

AYGÜN is furthering a number of R&D projects simultaneously thanks to its advanced R&D infrastructure, team of engineers and technical personnel specialized in their field. Thus, the company holds tens of patents and models actively used in the medical sector.

ILLUMINATION SYSTEMS FEATURES

I-LIGHT LD Specifications
Superior Optical performance
Light beams configuration to provide Shadowless illumination
Almost perfect color rendition (Typ. 95)
TFT touch screen for lighting control
Adjustable beam sizes to user preferences
Suitable for use with Laminar Flow functional ceilings
Easy to clean
Minimum Energy Consumption
54.000 hours LED life
Indirect Endo light for endoscopic operations

DISPOSABLE STERILIZATIONPRODUCTS

AYGÜN continues expanding its product range by adding other single use medical products to the completely silicone medical drainage systems needed by surgery. With its ISO 7 clean room and by carrying its expertise on sterilization and operation solutions one step further, AYGÜN offers professional service to its valued customers in disposable medical items as well.

DISPOSABLE PRODUCTS MODELS

Silicone Straight Drain Silicone Flat Drain Silicone Redon Drain Silicone Penrose Drain Silicone T Drain Silicone Medical Tube



AYGUN®

WE ARE GROWING TOGETHER

Aygün has an actively growing position in the sector through using a high technology and

innovative institutional structure.



QUALITY MANAGEMENT SYSTEM

- ISO 9001: 2015
- ISO 13485: 2016
- 2017/745 (EU)
- ISO 14001: 2015
- 93/42/EEC
- ISO 45001: 2018
- FDA 510 (K)













OUR VISION

The vision of AYGÜN is to grow in health sector according to the developing technology and sectoral innovations and serve humanity by producing new project and products appropriate to these innovations.

OUR MISSION

AYGÜN builds projects that can contribute to human health all over the world and integrates these projects to its production area and products in the light of technological developments. It constantly stays active with its innovative and explorer soul and remains taking part among the leader companies ruling the sector.





TECHNICAL INFRASTRUCTURE

CNC Machines
Hydraulic and Eccentric Presses
Hot Presses
Conventional CNC Machines
Mold Design and Molding Technology
3D Modelling Technology
Thermoforming
Cutting Machines

Electronic Design and Manufacturing Engineering
Software Technology
Fine Mechanic Techniques
Hardening
Laser Technology
Silicone Extrusion Technology
Clean Room – ISO 7
Chemical Coating and Anodizing Technology





PRODUCTION

Sense of high-grade quality in each process from raw material supply to the shipment is combined with integrated quality management system according to the standards. A big stuff gathered under the same roof and adopted importance of teamwork carry all stages above the dreams and makes what is desired real.



COMBINATION OF PRECIOUS HIGH **TECHNOLOGY** PRODUCTION MACHINES **AND PERFECT** CRAFTSMANSHIP,

New product development desire and need began in minds becomes sharable and interpretable with 3D printers and technical drawings. After setting the models and testing the prototypes, the production process starts for the approved designs. The production starts with combination of high technology production machines and perfect craftsmanship.

RESEARCH, DEVOLOPMENT, QUALITY

AYGÜN increases its power with its endless R&D works. It makes all needed investments so as to research and develop even the smallest part of the complicated products manufactured and carries out successful projects with its professional engineer team. It both develops the existing products with today's technology and performs serious works on new product designs.



Clear Visualization For **Better Results**

Leds offer better shadow control compared to conventional halogen bulbs. Halogen systems consist of a single bulb and multidirectional reflectors. Unfortunately, each direction requires a different setting and a different distance from the bulb. These differences may lead to unwanted "hot" and "cool" spots in the light pattern. A typical LED end-piece focuses LEDs at a single point. During this process it forms a block in order to avoid overlapping LEDs, therefore, LED points are round and consistent. There is no shadow cast on the patient during the surgery as the surgeons move in the lighted area. This can be tested with the surgeon moving their hands between the lamp and the operated area.

Performance	Units	LD5S	LD4S
Technology	-	LED	
Lighting at the center, Ec@ 100 cm	lx	160.000	120.000
Number of LEDs	pcs	60	48
Light field diameter	mm	190-300 (adjustable 5 steps)	
Light field depth L1+L2 (@60% Ec)	mm	500	
Color Rendering Index (CRI Ra)	-	min.95 (R9: typ.97)	
Color Temperature	K	3.500-5.500 (adjustable 5 steps)	
Electrical dimmability from/to	lx	60.000-160.000 (6 steps)	40.000-120.000 (6 steps)
Light parameters control	-	5" TFT LCD Touch Panel	
Service life	hrs	>54.000	
Handle	-	Removable and sterilizable	
Temperature increase in head area	С	<1	
Rotation	0	360	
Radiant energy	mW/m²lx	<3.4	
Shadowless	-	%98	
Endo light mode	-	yes (adjustable 5 steps)	

Electrical Data

Power supply input voltage	V	100-240 VAC / 120-360VDC / 24VDC Backup or Battery		
Frequency of AC input voltage	Hz	50-60		
Power Consumption at Lighthead	W @ 24VDC	60	50	

Mechanical Data

Light head weight	kg	19	17
Diameter of light head	mm	770	
Housing	-	Aluminum Alloy	
Design		Aerodynamically designed for Laminar Air flow	
Glass	-	Tempered Crystal Glass	
IP protection class	-	IP44	





操 Adjustable Color Control



I-LIGHT LD Series provides adjustable color temperature to optimize visualization of red tissues. Color temperature is variable from 3500K - 5500K.



I-LIGHT

Clear Visualization For Better Results

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- Multiple Light Beam Configuration for Shadowless Illumination
- Improved Beam Technology
- No flicker effect
- Quality Light
- Super Optical Performance
- 5" TFT LCD Touch Screen Panel

- Memory function
- Easy to clean
- Endo Mode
- Ergonomic and practical design
- Laminar Air Flow
- Quick and comfortable usage
- Extra Protection

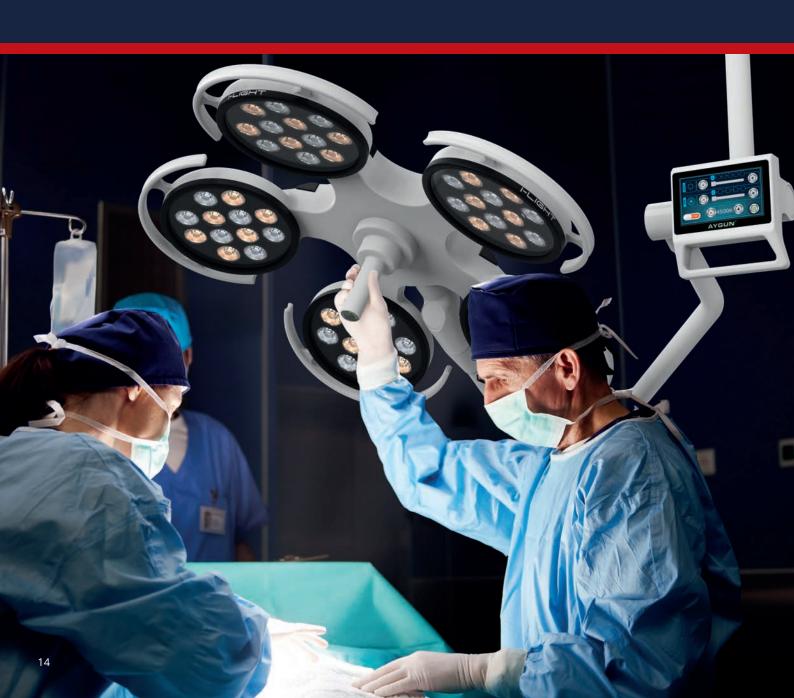






Quick and Comfortable Usage

Thanks to sterilizable handle, surgeon can do reposition easily and change the lighting field and ENDO mode quickly.

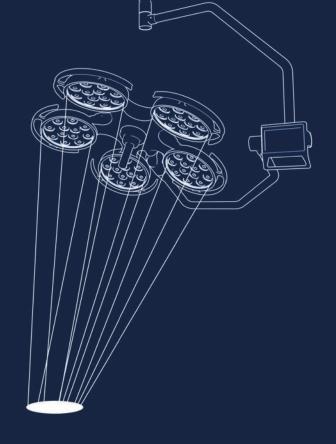


Multiple Light Beam Configuration for Shadowless Illumination

I-LIGHT boasts the ideal design for shadowless illumination thanks to its precise multiple light beam configuration.

Improved Beam Technology

Special lens technology designed for surgical lighting fully compatible with LED, provides homogeneous light field; when the light field is changed, the light intensity does not change.







Quality Light

Special alloy body design and LED driving technology minimize the heating of the light head. High quality LEDs with the lowest infrared or ultraviolet emissions, protects the patient from drying out of the tissue and provides a high quality working condition with the constant high-class lighting temperature to the operator.



No flicker effect

Thanks to the smooth LED driving technology no flicker effect is generated. Flicker effect can cause eye strain, headaches, blurred vision. Also light flicker causes corruption in photos or videos.



Super Optical Performance

Lighting functions are governed by microcontroller based electronic systems. By ensuring perfect LED and Lens compatibility, light quality is improved. By designed protected LED module, safer lighting is provided in case of failure of any LEDs the other LEDs are not effected. Each LED module can be replaced independently of the others and also they can be reached easily thanks to the independent Glass cover design of the Light head.



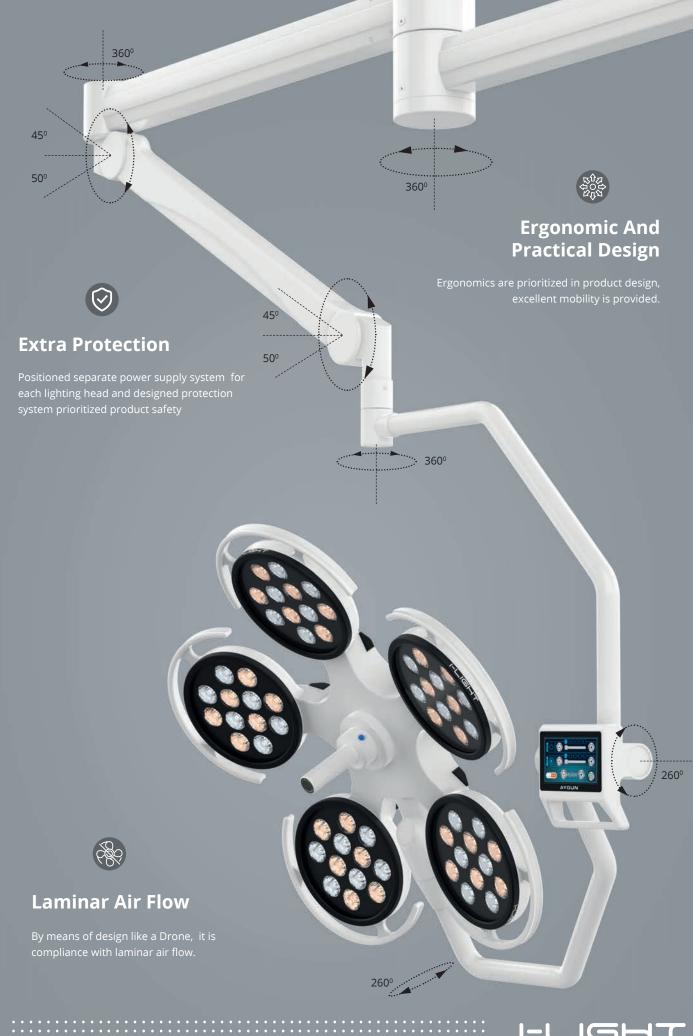






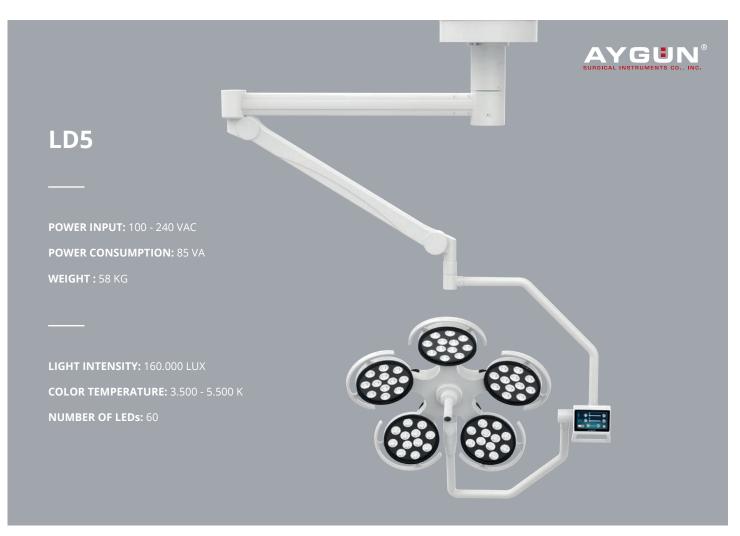
Endo Mode

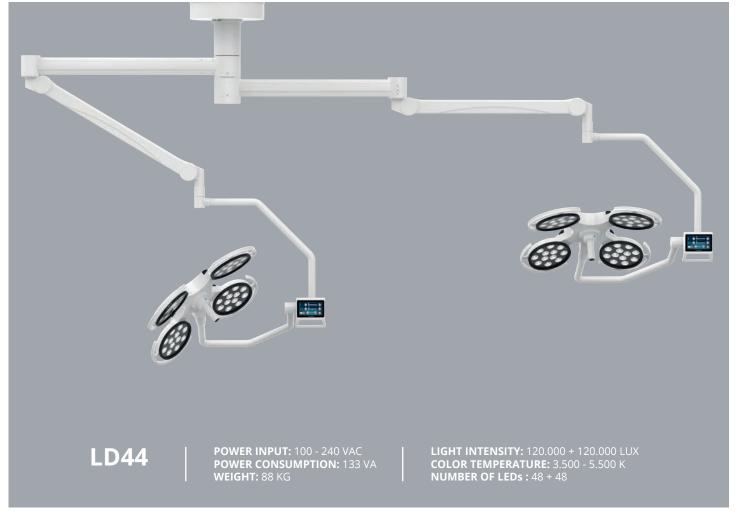
Provides the environment lighting necessary for endoscopic surgery with only one button and the system is switched back to the last surgical lighting settings with only one button.

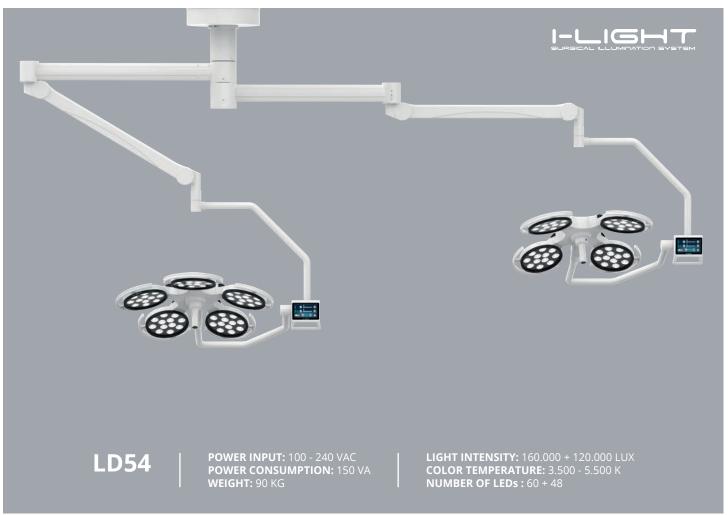


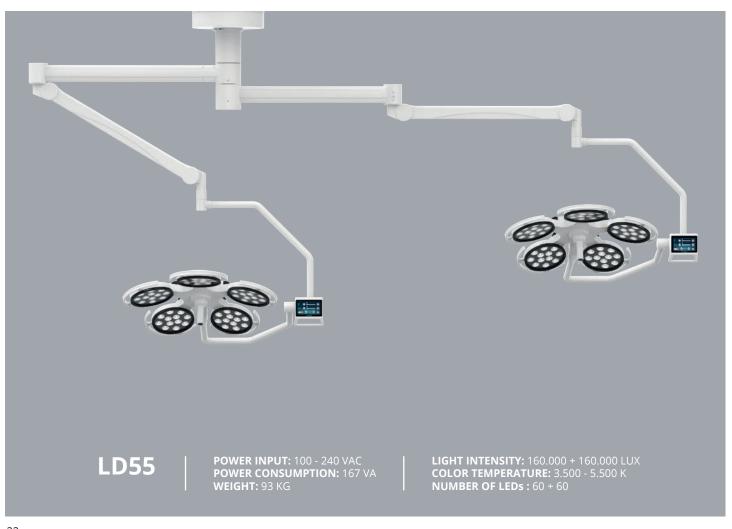


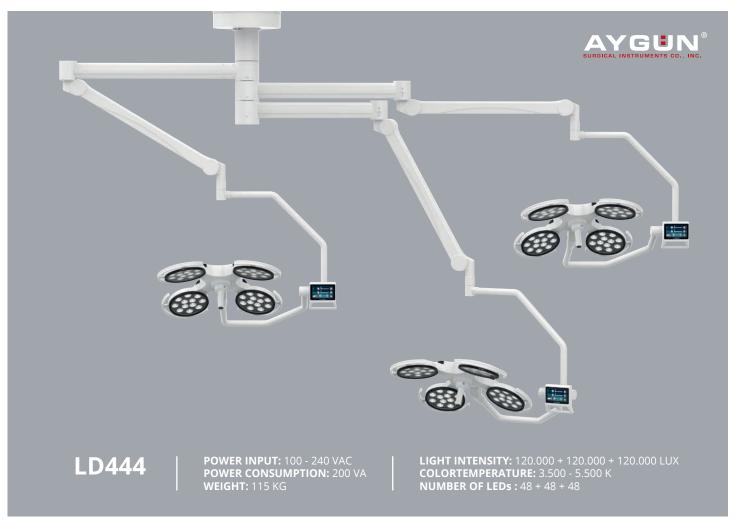


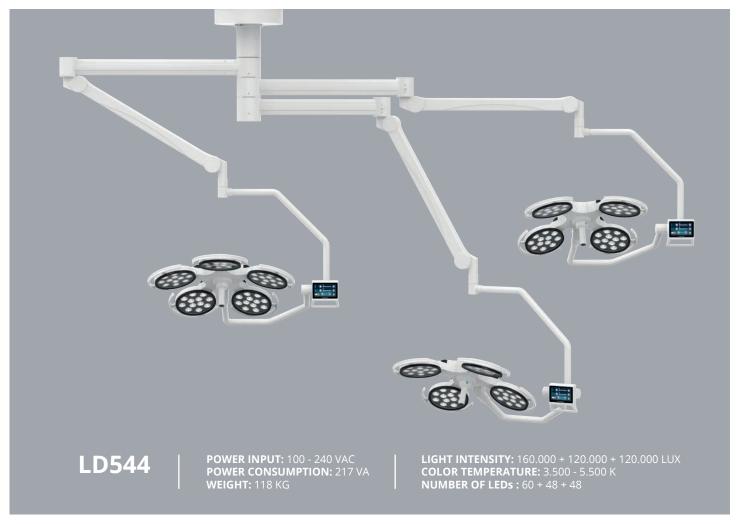


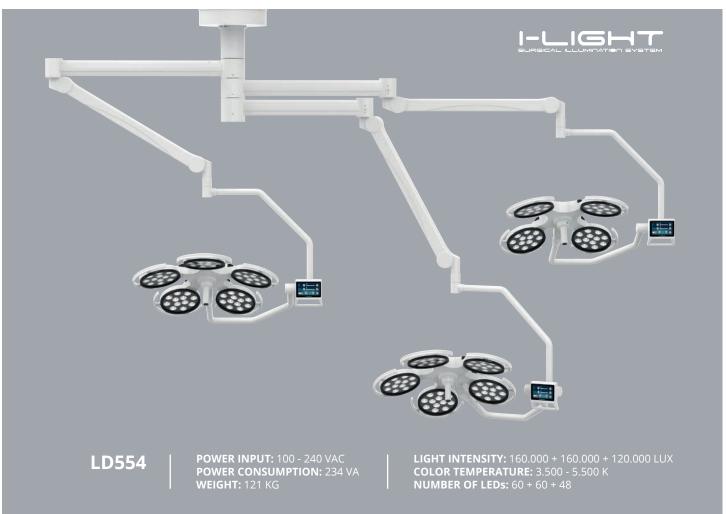


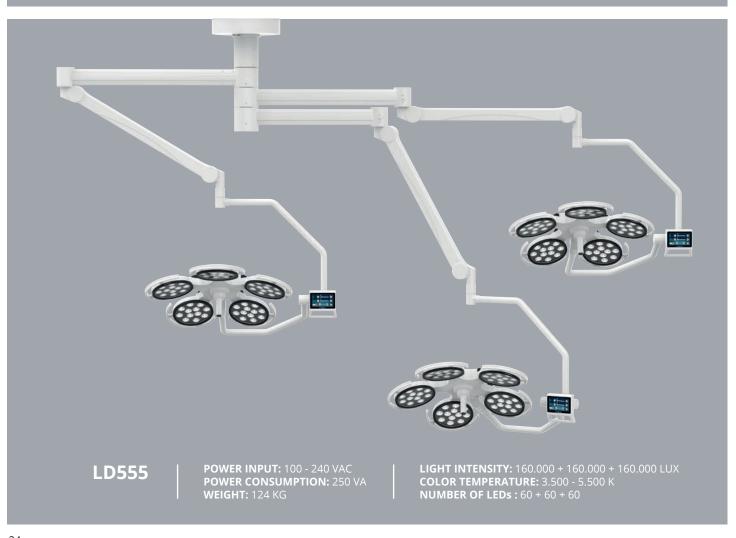
















FAIRS WE ATTEND

As Aygün Surgical Instruments Co, Inc. we are participate in many international fairs held every year in different regions of the world, organized in medical field; while presenting our products in a globalized competitive environment, also we are proud to represent our country. In this sense, we attend especially in Medica Düsseldorf which is considered as the biggest organization of the world in the field of medical technologies and also Arab Health in United Arab Emirates, FIME in United States, CMEFF in People's Republic of China, Hospitalar in Brazil and Expomed in Istanbul. Besides the fairs, we participate in many national and international congresses.

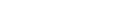






















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