ADAPTER TECHNOLOGY

COMPANY PROFILE

Rev.A17

BACKGROUND INTRODUCTION

Headquarters: Taipei, Taiwan
Established: Oct. 2001
Capital: USD 5,000,000
No. of Employee: 50

China Factory: Shipai, Dong Guan
Established: Sep. 2008
No. of Employee: 450

Philippines Factory:
Lima Technology Park, Batangas
Under Construction
Estimated Completion in Dec. 2020

ISO CERTIFIED

ISO 9001:2015

DONGGUAN BOAYANG ELECTRONICS CO., LTD.

NO.2 BUILDING, DIFENG INDUSTRIAL ZONE, LIUWU, XIASHA, SHIPAI TOWN, DONGGUAN CITY, GUANGDONG PROVINCE

Has been assessed by Zhongjian Certification Co., Ltd in respect of their Quality Management Systems and to comply with:

ISO9001:2015

Approval is hereby granted for registration providing the rules and conditions relating to certification are observed at all times

CERTIFICATION SCOPE:

PRODUCTION AND SALE OF POWER SUPPLY ADAPTERS, CHARGERS AND SWITCHING POWER SUPPLY COMPONENTS

Date of Issue: 2017-11-2

Valid Until: 2020-11-1

Certificate Number: U0017Q50459R3M

Organization Code: 91441900680566314K

This certificate remains valid only if the certified organization accepts and passes regular surveillance audits.

Approval of the first surveillance audit

Approval of the second surveillance audit

Approval of the third surveillance audit

0158

Authorised Signature for GuangDong Zhongjian Certification Co., Ltd

ISO 14001:2015

Zhongjian Certification Co., Ltd.

ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE

No: 0070017E51577R3M

This is to certify that the Environmental Management system of

DONGGUAN BOAYANG ELECTRONICS CO., LTD.

NO.2 BUILDING, DIFENG INDUSTRIAL ZONE, LIUWU, XIASHA, SHIPAI TOWN, DONGGUAN CITY, GUANGDONG PROVINCE

Organization Code: 91441900680566314K

By reason of its

Environmental Management System

Has been awarded this certificate for compliance with the standard

GB/T 24001-2016 / ISO14001:2015

The Environmental Management System applies in the following area:

THE RELATIVE MANAGEMENT ACTIVITIES OF PRODUCTION AND SALE OF POWER SUPPLY ADAPTERS, CHARGERS AND SWITCHING POWER SUPPLY COMPONENTS

Date of issue: 2017-11-2

Term of validity of this certificate: from 2017-11-2 to 2020-11-1 Inclusive

This certificate remains valid only if the certified organization accepts and passes regular surveillance audits.

Approval of the first surveillance audit

Approval of the second surveillance audit

Approval of the third surveillance audit

Representative of The Company

CNAS

MANAGEMENT SYSTEM

CNAS C007-M

Certificate of Registration

nqa

This is to certify that the Quality Management System of

Boayang Electronics Co., Ltd.

Unified Social Credit Code : 91441900680566314K
Operation Address : Building 2, Difeng Industrial Zone, Liuwu, Xiasha, Shipai Town, Dongguan City, Guangdong Province, China
Registered Address : Building 2, Difeng Industrial Zone, Liuwu, Xiasha, Shipai Town, Dongguan City, Guangdong Province, China

app.icable to

Production and sales services of power supply for medical equipment(for export only)

has been assessed and registered by NQA against the provisions of

ISO 13485: 2016

This registration is subject to the company maintaining a quality management system, to the above standard, which will be monitored by NQA.
Certified Clients shall accept regular surveillance assessments, the validity of certificates shall be maintained for the positive result of audit.
The information of this certificate can be checked on CNCA's website (www.cnca.gov.cn)
SNQA's website : www.snqa.com.cn

Managing Director

Certificate Number **42899**

Date: 01 December 2016
Reissue Date: 25 February 2019
Valid Until: 25 February 2022
EAC Code: 19

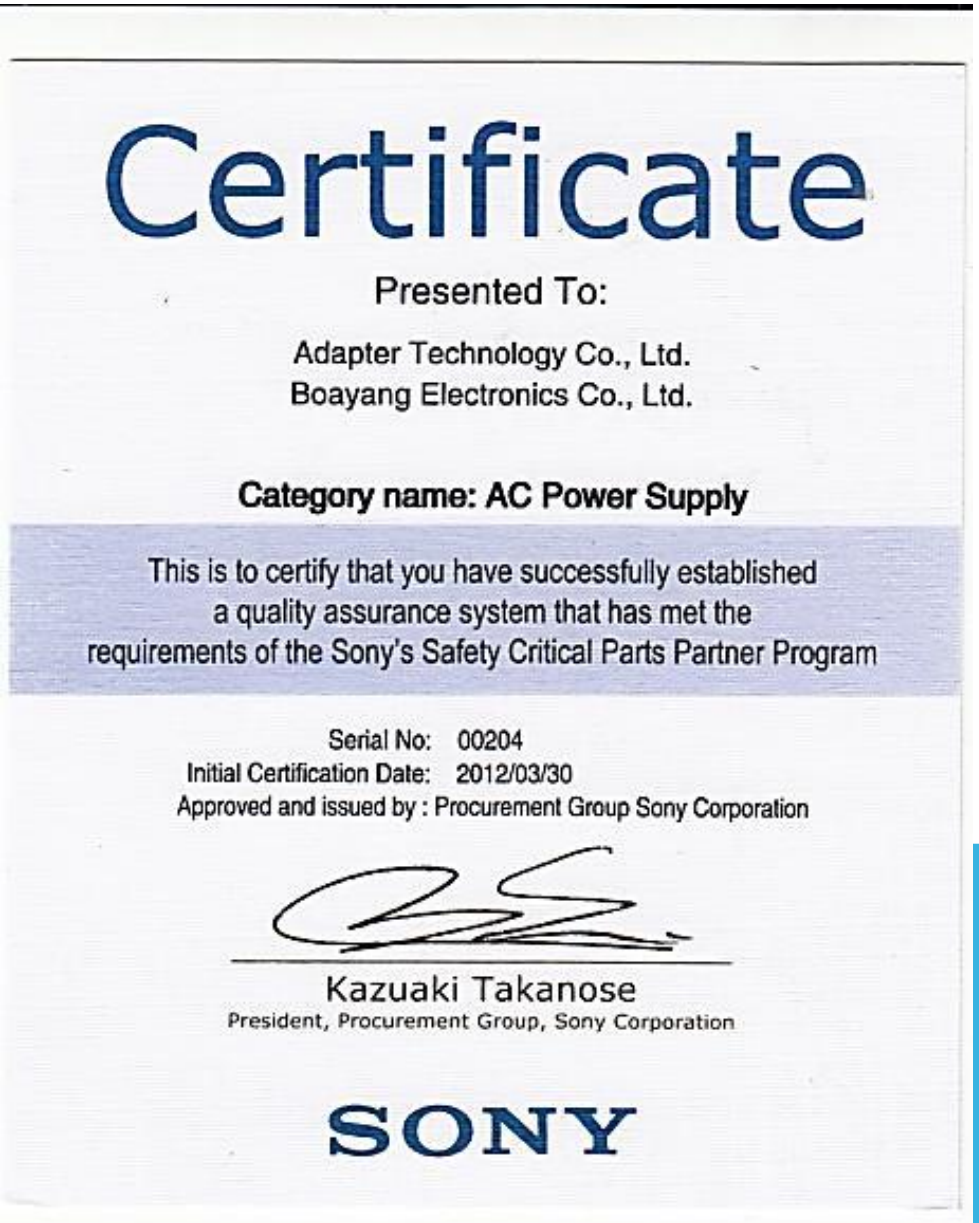
UKAS MANAGEMENT SYSTEMS 015

The use of the UKAS Accreditation Mark indicates accreditation in respect of those activities covered by the accreditation certificate number 015 held by NQA.
NQA is a trading name of NQA Certification Limited. Registration No 03351755. Registered Office: Warwick House, Houghton Hall Park, Houghton Regis, Dunstable, LU5 5ZX, UK.
This certificate is the property of NQA and must be returned on request.

ISO 13485

Adapter Technology Co., Ltd.

SONY SPP (SAFETY PARTS PARTNER)



Certificate

Presented To:

Adapter Technology Co., Ltd.
Boayang Electronics Co., Ltd.

Category name: AC Power Supply

This is to certify that you have successfully established a quality assurance system that has met the requirements of the Sony's Safety Critical Parts Partner Program

Serial No: 00204
Initial Certification Date: 2012/03/30
Approved and issued by : Procurement Group Sony Corporation

Kazuaki Takanose
President, Procurement Group, Sony Corporation

SONY

Qualified in Sep. 2009.

Adapter Technology Co., Ltd.

PRODUCT CATEGORIES

- **I.T.E. Standard Switching AC Adapter (5W ~ 300W)**

  GaN FET Switching AC Adapter (90W~300W)

IEC/ EN/ UL 60950 for I.T. Equipment

IEC/ EN/ UL 62368 for Audio/Video & I.T. Equipment

DoE Level VI / ErP (EU) 2019/1782 / CoC Tier 2

PRODUCT CATEGORIES

- **Medical Grade Switching AC Adapter (6W ~ 300W)**

  GaN FET Switching AC Adapter (200W~300W)

IEC/ EN/ ANSI/AAMI ES60601-1 (Edition 3.1) for Medical Equipment

IEC 60601-1-2 : 2014 (Edition 4.0) for EMC Standard

DoE Level VI / ErP (EU) 2019/1782

PRODUCT CATEGORIES

- **I.T.E. / Medical Open Frame Power Supply**

Single Output: 12W / 24W / 65W / 120W

150W / 200W / Small Size 200W

Dual Output: 210W / 305W / 450W / 612W

DoE Level VI / ErP (EU)2019/1782

SAFETY CERTIFICATE

Product and Factory Qualified from Worldwide Safety Agent

IS13252(Part1)/
IEC 60950-1

R-41013177

RoHS Compliant

Adapter Technology Co., Ltd.

BUSINESS PHILOSOPHY

- **RD Background Company**

  Provide design service upon customer's request

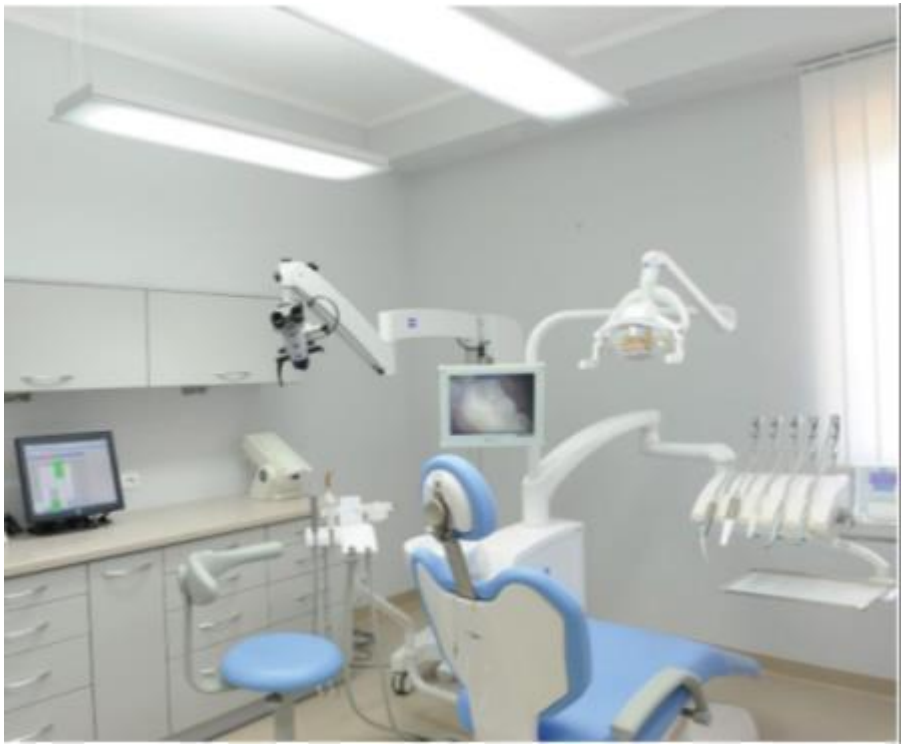
- **Upgrade Technology Continuously**

- **Concentrate, Professional, Proficiency**

- **Emphasize on High Quality**

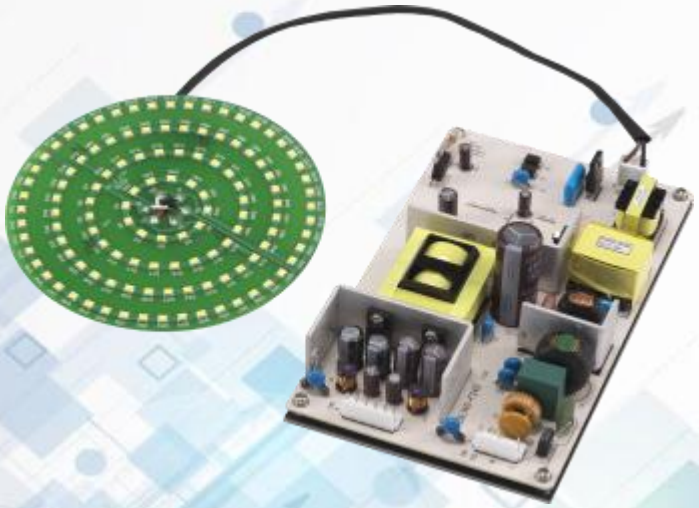
MEDICAL APPLICATION

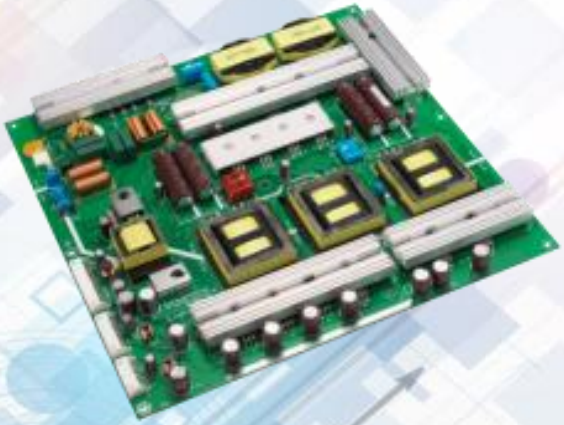
- **Medical Hospital Bed**
- **Medical Grade All in One PC**
- **Dialysis Machine**
- **Medical Monitor**
- **Medical Printer**



SPECIAL APPLICATION

Customized Available





Adapter Technology Co., Ltd.

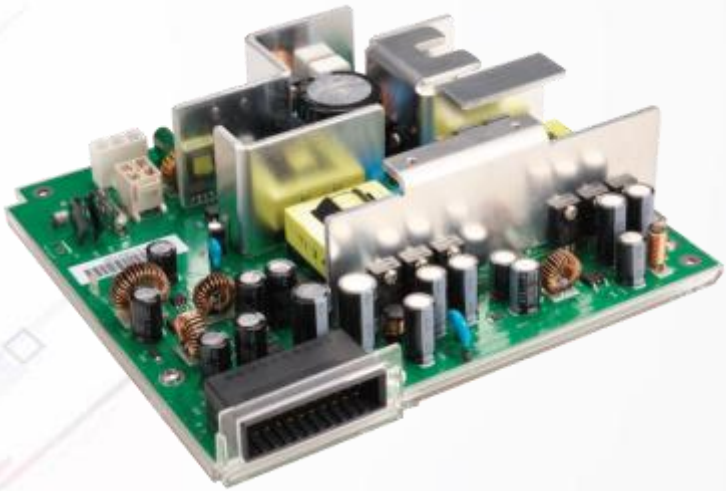
300W High Voltage Power Supply

- **Input Voltage: 100 ~ 240Vac**
- **Output: 75V / 4A**
- **Meet EN 60335-1**
- **Class II Design**
- **With C18 AC Socket**
- **Application:**

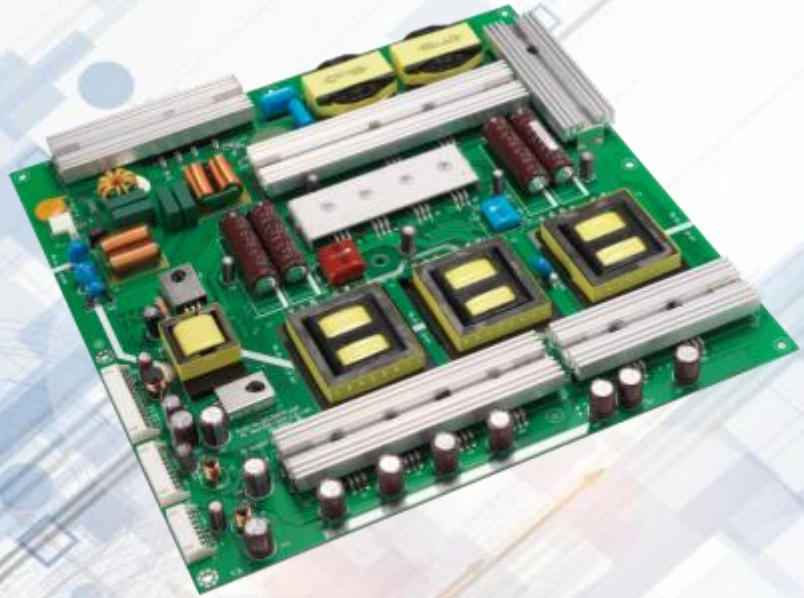
  Electric Wheelchair (IBOT)

Gambling Machine
Open Frame Power Supply

- **Input Voltage: 100Vac**
- **Multiple Output, up to 338W**
- **OCP / OVP / OTP / SCP / UVP Design**
- **Dimension:**
  192(L) x 182(W) x 60(H) mm
- **Application: Pachinko Slot**



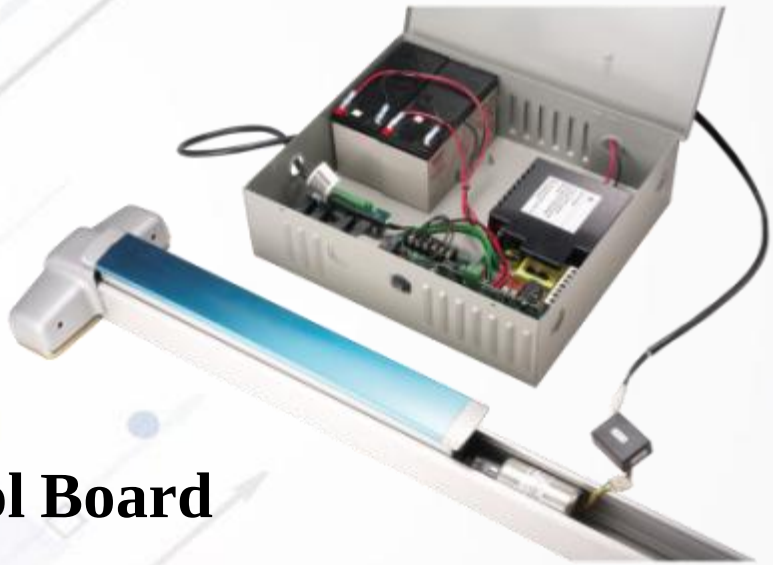
350W Triple Output
Open Frame Power Supply



- **Input Voltage: 100 ~ 240Vac**
- **Output: (1) 24V / 10A**
  (2) 12V / 8A
  (3) 5V / 3A
- **Slim Type Design**
- **Dimension:**
  250(L) x 250(W) x 15(H) mm
- **Application: 55 inch LCD TV**

Access Control Unit Power Supply

- **Input Voltage: 100 ~ 240Vac**
- **Output Selectable:**
  12V / 4A & 28.8V / 0.5A or
  24V / 4A (Peak 17A) & 28.8V / 0.5A
- **With Safety Cover and Iron box**
- **With Battery Backup Board / Control Board**
- **Application: Security System**



Dialysis Machine Power Supply

- **Input Voltage: 100 ~ 240Vac**
- **Multiple Output, up to 431W**
- **Means of Protection:**
  2 X MOPP
- **OCP / OVP / OTP / SCP Design**
- **Application: Dialysis Machine**

140W Integrated Open Frame Power Supply

- **Input Voltage: 100 ~ 240Vac**
- **Main Power (Dual Output)**

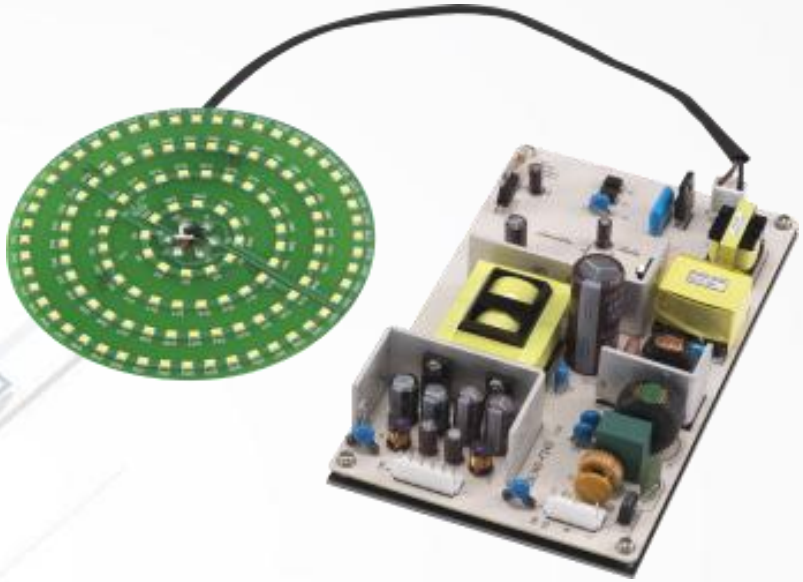
  Output: 24V / 0.2~3A (Peak 4.5A / 15S max.)

  8V / 0.2~4A

  Total Power: 104W max.

  (Peak 140W@15s when LED Driver OFF)
- **LED Driver**

  Output: 18V~170V/80mA (Constant Current)
- **5-Way Dimmer**
- **Dimension: 110(L) x 185(W) x 40(H) mm**
- **Application: Vending Machine**



Dimming Rate	Dimming Signal 1	Dimming Signal 2	ON / OFF
100%	High (24V)	High (24V)	Low (0~1V)
50%	Low (0~1V)	High (24V)	Low (0~1V)
25%	High (24V)	Low (0~1V)	Low (0~1V)
10%	Low (0~1V)	Low (0~1V)	Low (0~1V)
0%	---	---	High (24V)

Не удается отобразить рисунок. Возможно, рисунок поврежден или недостаточно
для его открытия. Перезагрузите компьютер, а затем снова откройте файл. Если
рисунка все еще отображается красный крестик, попробуйте удалить рисунок и
его заново.

GaN FET Power Supply Project

2.5X Smaller!

Contrast between GaN FET and MOSFET

- **90W~300W Development**
- **Gallium Nitride Based Design**
- **High Power Density**
- **With 250KHz Frequency Switching**
- **Compact Power Stage Design**
- **Efficiency: 95% (Typical)**
- **Lower Consumption than MOSFET**
- **High Circuit Reliability**

Comparison of GaN FET & MOS FET in Power Supply Application

Items \ Parts	GaN FET	MOSFET	Advantage
Qg , Qrr	Lower Capacitance	Higher Capacitance	Reduced Switching Loss
Switching Power Loss	Less	More	Higher Efficiency
Operating Frequency	200K~500KHz	65K~100KHz	Smaller Magnetics
Power Transformer Dimension	Smaller	Larger	Reduced Size
Package	SMD - smaller	DIP - TO-220 / TO-3P (w/ heat sink)	Reduced Size
$R_{DS(on)}$	Lower	Higher	Reduced Power Loss
Weight of Power Supply	Lighter (65% of traditional one)	Heavier	Increase Mobility
Dimension of Power Supply	Compact -2.5X Smaller	Larger	Increase Mobility
Power Density	Higher (12.5W/inch^3)	Lower (5W/inch^3)	Reduced Size
Efficiency	Over 2% Higher than MOSFET	Lower	Green Efficiency
Convenience	Portable, System Package can be Smaller	Inconvenient to carry, Traditional Package	Increase Mobility

QDION OEM & LOCALIZATION RUSSIA and EU REPRESENTATIVE OFFICE

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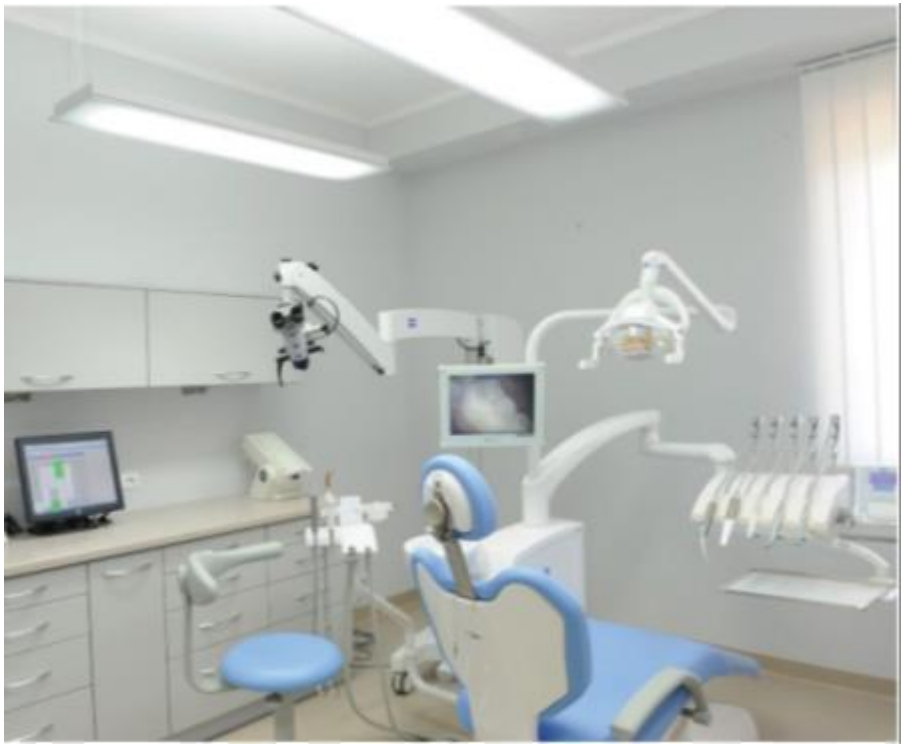
www.fsppower.ru
www.qdion.ru
www.adaptertech.com.tw



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