FEATURING

- Excellent Sensitivity & Resolution
  - Toshiba’s advanced and proven fine structured CsI:Tl and direct vapor deposition technology deliver higher sensitivity and resolution.
  - Reflection coating on CsI:Tl screen enables excellent Detective Quantum Efficiency (DQE) and high Modulation Transfer Function (MTF).
  - Lower radiation dose beneficial to patients as a result of excellent image quality. The FDX2530RPW offers a new level of functionality and reliability for system manufacturers.

- Excellent Reliability
  - Excellent durability by using CsI:Tl screen direct vapor deposition method.
  - The structure is highly reliable and protected from degradation due to the use of a unique moisture-proof sealing method for the CsI:Tl screen.

INTENDED USE

FDX2530RPW is an X-Ray FLAT PANEL IMAGER for radiographic use. This device can be used with an x-ray generator. It provides digital signal by detecting X-rays which pass through patient body and strike its surface. It does not provide clinical image, nor function of controlling X-ray generator.

For medical diagnosis, it additionally requires image processing with application software to visualize digital image. It is not intended to use for mammography, and angiography applications.
## COMPONENTS AND CHARACTERISTICS

### Sensor Unit
- **Sensor Protection Plate**: Carbon Fiber Plate
- **Cooling**: Natural Air Cooling
- **Input**: DC16V (from Power Supply)
- **Power Consumption**: Maximum 10W, Maximum 18W (with Battery Charging)
- **Overall Dimensions**: 281.5×332.5×15 mm (W(H)×D(V)×(H))
- **Weight**: 1.7kg (approx.)

### Power Supply: DEPS9601
- **Input**: AC100 to 240V, 1.0A, 50/60Hz
- **Output**: DC16V 3A
- **Overall Dimensions**: 155mm×208mm×65mm (W(H)×D(V)×(H))
- **Weight**: 1.2kg (approx.)

### Main Cable: MI39–01545A
- **Length**: 7m
- **Diameter**: φ 8~9mm

### Li-ion Battery: EGI-D3S1P
- **Nominal Capacity**: 2300 mAh
- **Nominal Voltage**: 11.55V
- **Outline Dimensions**: 133×109×7.8 mm (W(H)×D(V)×(H))
- **Weight**: 180g (approx.)

### Battery Adapter: MI59–01148A
- **Outline Dimensions**: 245×130×8.5 mm (W(H)×D(V)×(H))
- **Weight**: 120g (approx.)

### Battery Recharger: DEPS–9606
- **Outline Dimensions**: 281.6×206.6×21.2 mm (W(H)×D(V)×(H))
- **Weight**: 500g (approx.)
AC Adapter: EPS-F007A (Model No.: SPU100-107)

<table>
<thead>
<tr>
<th>Outline Dimensions</th>
<th>76×146×43 mm (W(H)×D(V)×(H))</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable Length</td>
<td>430mm</td>
</tr>
<tr>
<td>Input</td>
<td>AC100 to 240V 1.2–0.5A 47–63Hz</td>
</tr>
<tr>
<td>Output</td>
<td>DC19V 5.26A</td>
</tr>
<tr>
<td>Weight</td>
<td>510g (approx.)</td>
</tr>
</tbody>
</table>

Note:
- This product component does not contain AC cable.
- Prepare the suitable AC cables by X-ray system manufacturer.

Environmental

Under delivery and stock

<table>
<thead>
<tr>
<th>Temperature</th>
<th>-15 to 55 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humidity</td>
<td>10 to 95% (Non-Condensing)</td>
</tr>
<tr>
<td>Pressure</td>
<td>50 to 106 kPa</td>
</tr>
</tbody>
</table>

Under operating

<table>
<thead>
<tr>
<th>Temperature</th>
<th>+10 to 35 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humidity</td>
<td>20 to 75% (Non-Condensing)</td>
</tr>
<tr>
<td>Pressure</td>
<td>70 to 106 kPa</td>
</tr>
</tbody>
</table>

Note:
1. Storing a Li-ion battery at high temperatures will accelerate its deterioration.
   - When storing a Li-ion battery for a long time, be careful about storage temperature.
   - Recommendation temperature for long time storage: 10 to 35°C
2. The battery should be sufficiently acclimatized to the environment where it will be used (10 to 35°C) before use.

Accessories

CD: Defect map, SDK
## MAIN CHARACTERISTICS

- **Image Format:**
  - X-ray Conversion Layer: Cesium Iodide (Csl) with Amorphous Silicon (a-Si) Photodiode
  - Active Area: 245 (H) x 295 (V) mm
  - Pixel Matrix: 1750 (H) x 2108 (V)
  - Pixel Pitch: 140 μm
  - Cycle Time: Shot to Shot 10 sec (WLAN: 5GHz) / Shot to Shot 8 sec (Ethernet: 1Gbps)
  
  (Cycle time is the time to complete image transfer from the X-ray Exposure. Cycle time does not include image processing time. The image processing time is determined by the specifications of the image processing unit.)

- **Performance:**
  - Limiting Resolution: 3.7 Lp/mm typ.
  - MTF (2.0Lp/mm, 70kVp, 1x1): 36 % typ.
  - DQE (DQE (0), Quantum Limited): > 70 %
  - A/D Conversion: 16 bit

- **Functions:**
  - Auto Exposure Detection (AED): Available in Tethered Mode and Wireless Mode
  - Double Exposure: Available in Tethered Mode

- **Ratings:**
  - Energy Range: 40 to 150kVp
  - Maximum Entrance Dose (Linear Output Range): 4mR

- **Interface:**
  - Sensor Unit
    - Unit Interface: Connect to power supply
  - Power Supply
    - Unit Interface: Connect to Sensor Unit
    - Data Output: 16 bit Digital Output Ethernet (1000BASE-T)
    - Command Control: Ethernet (1000BASE-T)
    - Power Input: AC100 to 240V, 1A 50/60 Hz
    - WLAN: IEEE802.11a/b/g/n 2.4GHz/5GHz

- **Image Acquisition Exposure period:**
  - X-ray period (ms): Standard: 500 (500, 1000, 1500, 2000, 2500, 3000, 3500, 4000)
Product Components and Interface

- **Tethered Mode**

![Diagram of Tethered Mode]

- **Wireless Mode**

![Diagram of Wireless Mode]

**LED Display Mode:**

<table>
<thead>
<tr>
<th>Name</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>PWR</td>
<td>Turn on when power on</td>
</tr>
<tr>
<td>BUSY</td>
<td>Flash on when internal processing</td>
</tr>
<tr>
<td>LINK</td>
<td>Turn on when connect: Green (WLAN) / Blue (LAN)</td>
</tr>
</tbody>
</table>
Image Acquisition Communication Block Diagram

➢ Tethered Mode

➢ Wireless Mode
DIMENSIONAL OUTLINE
(Sensor Unit)

Unit: mm

(Main Cable)
Unit: mm

7000±100

Φ 8~9
DIMENSIONAL OUTLINE
(Power Supply)

Unit: mm
DIMENSIONAL OUTLINE
(Battery Adapter)

Unit: mm

245±0.5
130±0.5
8.5±0.2
OVERSEAS SUBSIDIARIES AND AFFILIATES

EU REPRESENTATIVE

- TOSHIBA ELECTRONICS EUROPE GMBH
  HANSAALLEE 181 40549 DÜSSELDORF, GERMANY
  PHONE +49 (211) 5296 107    FAX +49 (211) 5296 402

For Sales & Technical Services, please contact the following representative:

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  HANSAALLEE 181 40549 DÜSSELDORF, GERMANY
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- TOSHIBA AMERICA ELECTRONIC COMPONENTS, INC.
  2150 EAST LAKE COOK ROAD, SUITE 310 BUFFALO GROVE,
  ILLINOIS 60089 U.S.A
  PHONE +1 (847) 484–2400    FAX +1 (847) 541–7287

- TOSHIBA ELECTRON DEVICES & MATERIALS (SHANGHAI) CO., LTD. (TEMS)
  RM1606, SH-PLAZA,
  No.336, XIZANG ROAD (MIDDLE), SHANGHAI, 200001, CHINA
  PHONE +86 (21) 6361–0077    FAX +86 (21) 6351–5760
Product Information

X-Ray FLAT PANEL IMAGER
FDX3543RPW
Active Area: 350(H) × 430(V) mm
(14” × 17”)

FEATURING

➢ Excellent Sensitivity & Resolution
➢ Excellent Image Quality
➢ Excellent Reliability

➢ Excellent Sensitivity & Resolution
  • Toshiba’s advanced and proven fine structured CsI:Tl and direct vapor deposition technology deliver higher sensitivity and resolution.
  • Reflection coating on CsI:Tl screen enables excellent Detective Quantum Efficiency (DQE) and high Modulation Transfer Function (MTF).
  • Lower radiation dose beneficial to patients as a result of excellent image quality. The FDX3543RPW offers a new level of functionality and reliability for system manufacturers.

➢ Excellent Reliability
  • Excellent durability by using CsI:Tl screen direct vapor deposition method.
  • The structure is highly reliable and protected from degradation due to the use of a unique moisture-proof sealing method for the CsI:Tl screen.

INTENDED USE

FDX3543RPW is an X-Ray FLAT PANEL IMAGER for radiographic use. This device can be used with an x-ray generator. It provides digital signal by detecting X-rays which pass through patient body and strike its surface. It does not provide clinical image, nor function of controlling X-ray generator.
For medical diagnosis, it additionally requires image processing with application software to visualize digital image. It is not intended to use for mammography, and angiography applications.

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No responsibility is assumed by TOSHIBA ELECTRON TUBES & DEVICES CO., LTD. (TETD) for any infringements of patents or other rights of the third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of TETD or others.
★The information contained herein may be changed without prior notice. It is therefore advisable to contact TETD before proceeding with the design of equipment incorporating this product.
## COMPONENTS AND CHARACTERISTICS

- **Sensor Unit**

<table>
<thead>
<tr>
<th>Component</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor Protection Plate</td>
<td>Carbon Fiber Plate</td>
</tr>
<tr>
<td>Cooling</td>
<td>Natural Air Cooling</td>
</tr>
<tr>
<td>Input</td>
<td>DC16V (from Power Supply)</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>Maximum 13W</td>
</tr>
<tr>
<td></td>
<td>Maximum 20W (with Battery Charging)</td>
</tr>
<tr>
<td>Overall Dimensions</td>
<td>383.5mm×459.5mm×15mm (W(H)×D(V)×(H))</td>
</tr>
<tr>
<td>Weight</td>
<td>3.1 kg (approx.)</td>
</tr>
</tbody>
</table>

- **Power Supply: DEPS9601**

<table>
<thead>
<tr>
<th>Component</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input</td>
<td>AC100 to 240V, 1.0A, 50/60Hz</td>
</tr>
<tr>
<td>Output</td>
<td>DC16V 3A</td>
</tr>
<tr>
<td>Overall Dimensions</td>
<td>155mm×208mm×65mm (W(H)×D(V)×(H))</td>
</tr>
<tr>
<td>Weight</td>
<td>1.2 kg</td>
</tr>
</tbody>
</table>

- **Main Cable: MI39–01545A**

<table>
<thead>
<tr>
<th>Component</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>7m</td>
</tr>
<tr>
<td>Diameter</td>
<td>φ 8mm</td>
</tr>
</tbody>
</table>

- **Li–ion Battery: SDB–3S1PA**

<table>
<thead>
<tr>
<th>Component</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Capacity</td>
<td>3400 mAh</td>
</tr>
<tr>
<td>Nominal Voltage</td>
<td>11.45V</td>
</tr>
<tr>
<td>Outline Dimensions</td>
<td>245mm×130mm×8.5mm (W(H)×D(V)×(H))</td>
</tr>
<tr>
<td>Weight</td>
<td>385g</td>
</tr>
</tbody>
</table>

- **Battery Recharger: DEPS–9606**

<table>
<thead>
<tr>
<th>Component</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outline Dimensions</td>
<td>281.6×206.6×21.2 mm (W(H)×D(V)×(H))</td>
</tr>
<tr>
<td>Weight</td>
<td>500g</td>
</tr>
</tbody>
</table>
AC Adapter: EPS-F007A (Model No.: SPU100–107)

<table>
<thead>
<tr>
<th>Outline Dimensions</th>
<th>76×146×43 mm (W(H)×D(V)×(H))</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable Length</td>
<td>430mm</td>
</tr>
<tr>
<td>Input</td>
<td>AC100 to 240V 1.2–0.5A 47–63Hz</td>
</tr>
<tr>
<td>Output</td>
<td>DC19V 5.26A</td>
</tr>
<tr>
<td>Weight</td>
<td>510g (Aprox.)</td>
</tr>
</tbody>
</table>

Note: Prepare the suitable AC cables by X-ray system manufacturer.

Environmental

Under delivery and stock

<table>
<thead>
<tr>
<th>Temperature</th>
<th>-15 to 55 °C</th>
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<td>Pressure</td>
<td>50 to 106 kPa</td>
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Under operating

<table>
<thead>
<tr>
<th>Temperature</th>
<th>+10 to 35 °C</th>
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</thead>
<tbody>
<tr>
<td>Humidity</td>
<td>20 to 75 % (Non-Condensing)</td>
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<td>Pressure</td>
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</tbody>
</table>

Note:

1. Storing a Li-ion battery at high temperatures will accelerate its deterioration. When storing a Li-ion battery for a long time, be careful about storage temperature. Recommendation temperature for long time storage: 10 to 35°C
2. The battery should be sufficiently acclimatized to the environment where it will be used (10 to 35°C) before use.

Accessories

CD: Defect map, SDK
MAIN CHARACTERISTICS

- **Image Format:**
  - X-ray Conversion Layer: Cesium Iodide (CsI) with Amorphous Silicon (a-Si) Photodiode
  - Active Area: 345(H)×423(V)mm (14×17 inch)
  - Pixel Matrix: 2466(H)×3040(V)
  - Pixel Pitch: 140μm
  - Cycle Time: Shot to Shot 12 sec (WLAN), Shot to Shot 9 sec (Ethernet)

  (Cycle time is the time to complete image transfer from the X-ray Exposure. Cycle time does not include image processing time. The image processing time is determined by the specifications of the image processing unit.)

- **Performance**
  - Limiting Resolution: 3.7Lp/mm typ.
  - MTF (2.0Lp/mm, 70kVp, 1×1): 36 % typ.
  - DQE (DQE (0), Quantum - Limited): > 70 %
  - A/D Conversion: 14 bit

- **Functions**
  - Auto Exposure Detection (AED): Available in Tethered mode and Wireless Mode
  - Double Exposure: Available in Tethered Mode

- **Ratings**
  - Energy Range: 40 to 150kVp
  - Maximum Entrance Dose (Linear Output Range): 4mR
### Interface

<table>
<thead>
<tr>
<th>Sensor Unit</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Interface</td>
<td>Connect to power supply</td>
</tr>
<tr>
<td>Power Supply</td>
<td></td>
</tr>
<tr>
<td>Unit Interface</td>
<td>Connect to Sensor Unit</td>
</tr>
<tr>
<td>Data Output</td>
<td>14 bit Digital Output Ethernet (1000BASE-T)</td>
</tr>
<tr>
<td>Command Control</td>
<td>Ethernet (1000BASE-T)</td>
</tr>
<tr>
<td>Power Input</td>
<td>AC100 to 240V, 1A 50/60 Hz</td>
</tr>
<tr>
<td>WLAN</td>
<td>IEEE802.11a/b/g/n 2.4GHz/5GHz</td>
</tr>
</tbody>
</table>

### Image Acquisition Exposure period

| X-ray period (ms) | Standard: 500 (500, 1000, 1500, 2000, 2500, 3000, 3500, 4000) |  |
Product Components and Interface

- Tethered Mode

- Wireless Mode

LED Display Mode:

<table>
<thead>
<tr>
<th>Name</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>PWR</td>
<td>Turn on when power on</td>
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<td>BUSY</td>
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</tr>
<tr>
<td>LINK</td>
<td>Turn on when connect: Green (WLAN) / Blue (LAN)</td>
</tr>
</tbody>
</table>
Image Acquisition Communication Block Diagram

➢ Tethered Mode

➢ Wireless Mode
DIMENSIONAL OUTLINE
(Sensor Unit)

Unit: mm

(Main Cable)
Unit: mm

459.5
383.5
15

7000±100

φ 8~9

Main Label
(Power Supply)

Unit: mm
(Battery Recharger)

Unit: mm

(Battery Recharger)

Unit: mm

(AC Adapter)

Unit: mm
OVERSEAS SUBSIDIARIES AND AFFILIATES

EU REPRESENTATIVE

- TOSHIBA ELECTRONICS EUROPE GMBH
  HANSAALLEE 181 40549 DÜSSELDORF, GERMANY
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FEATURING

- Excellent Sensitivity & Resolution
  - Toshiba’s advanced and proven fine structured CsI:Tl and direct vapor deposition technology deliver higher sensitivity and resolution.
  - Reflection coating on CsI:Tl screen enables excellent Detective Quantum Efficiency (DQE) and high Modulation Transfer Function (MTF).
  - Lower radiation dose beneficial to patients as a result of excellent image quality. The FDX4343RPW offers a new level of functionality and reliability for system manufacturers.

- Excellent Reliability
  - Excellent durability by using CsI:Tl screen direct vapor deposition method.
  - The structure is highly reliable and protected from degradation due to the use of a unique moisture-proof sealing method for the CsI:Tl screen.

INTENDED USE:

FDX4343RPW is an X-Ray FLAT PANEL IMAGER for radiographic use. This device can be used with an x-ray generator. It provides digital signal by detecting X-rays which pass through patient body and strike its surface. It does not provide clinical image, nor function of controlling X-ray generator.

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### COMPONENTS AND CHARACTERISTICS

#### Sensor Unit
- **Sensor Protection Plate**: Carbon Fiber Plate
- **Cooling**: Natural Air Cooling
- **Input**: DC16V (from Power Supply Box)
- **Power Consumption**: Maximum 15W, Maximum 23W (with Battery Charging)
- **Overall Dimensions**: 460×460×15 mm (W(H)×D(V)×(H))
- **Weight**: 3.7kg (approx.)

#### Power Supply: DEPS9601
- **Input**: AC100 to 240V, 1.0A, 50/60Hz
- **Output**: DC16V 3A
- **Overall Dimensions**: 155mm×208mm×65mm (W(H)×D(V)×(H))
- **Weight**: 1.2 kg (approx.)

#### Main Cable: MI39-01545A
- **Length**: 7m
- **Diameter**: φ 8–9mm

#### Li-ion Battery: SDB−3S1PA
- **Nominal Capacity**: 3400 mAh
- **Nominal Voltage**: 11.45V
- **Outline Dimensions**: 245×130×8.5 mm (W(H)×D(V)×(H))
- **Weight**: 385g (approx.)

#### Battery Recharger: DEPS−9606
- **Outline Dimensions**: 281.6×206.6×21.2 mm (W(H)×D(V)×(H))
- **Weight**: 500g (approx.)
AC Adapter: EPS-F007A (Model No.: SPU100-107)

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<tbody>
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<td>Cable Length</td>
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Note:
- This product component does not contain AC cable.
- Prepare the suitable AC cables by X-ray system manufacturer.

Environmental

<table>
<thead>
<tr>
<th>Conditions</th>
<th>Temperature</th>
<th>Humidity</th>
<th>Pressure</th>
</tr>
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<tbody>
<tr>
<td>Under delivery and stock</td>
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Note:
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   When storing a Li–ion battery for a long time, be careful about storage temperature.
   Recommendation temperature for long time storage: 10 to 35°C
2. The battery should be sufficiently acclimatized to the environment where it will be used (10 to 35°C) before use.

Accessories

CD: Defect map, SDK
## MAIN CHARACTERISTICS

- **Image Format:**
  - X-ray Conversion Layer: Cesium Iodide (CsI) with Amorphous Silicon (a-Si) Photodiode
  - Active Area: 43 (H) × 43 (V) cm
  - Pixel Matrix: 3036 (H) × 3040 (V)
  - Pixel Pitch: 140 μm
  - Cycle Time:
    - Shot to Shot 12 sec (WLAN)
    - Shot to Shot 9 sec (Ethernet)

  (Cycle time is the time to complete image transfer from the X-ray Exposure. Cycle time does not include image processing time. The image processing time is determined by the specifications of the image processing unit.)

- **Performance:**
  - Limiting Resolution: 3.7Lp/mm typ.
  - MTF (2.0Lp/mm, 70kVp, 1×1): 36 % typ.
  - DQE (DQE (0), Quantum - Limited): > 70 %
  - A/D Conversion: 16 bit

- **Ratings**
  - Energy Range: 40 to 150kVp
  - Maximum Entrance Dose (Linear Output Range): 4mR

- **Interface**
  - Sensor Unit
    - Unit Interface: Connect to power supply
  - Power Supply
    - Unit Interface: Connect to Sensor Unit
    - Data Output: 16 bit Digital Output Ethernet (1000BASE-T)
    - Command Control: Ethernet (1000BASE-T)
    - Power Input: AC100 to 240V, 1A 50/60 Hz
    - WLAN: IEEE802.11n 2.4GHz/5GHz

- **Image Acquisition**
  - Exposure period
    - X-ray period (ms): Standard: 500 (500, 1000, 1500, 2000, 2500, 3000, 3500, 4000)
Product Components and Interface

- Tethered Mode

- Wireless Mode

LED Display Mode:

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<tr>
<td>LINK</td>
<td>Turn on when connect: Green (WLAN) / Blue (LAN)</td>
</tr>
</tbody>
</table>
Image Acquisition Communication Block Diagram

- **Tethered Mode**

- **Wireless Mode**
DIMENSIONAL OUTLINE
(Sensor Unit)

Unit: mm

(Main Cable)

Unit: mm
DIMENSIONAL OUTLINE
(Power Supply)

Unit: mm
DIMENSIONAL OUTLINE
(Battery Recharger)

Unit: mm

(AC Adapter)
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