**DAIHAN-brand® UV Transilluminators, “WUV”, Standard- & Compact Case-type, 48W/90W**
with Hinged UV-Blocking Safety Cover, Economical, Robust, Versatile, 312-/365-/312+365-nm, with Certi. & Traceability

- with Certificate & Traceability: Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Low Cost, Robust, Versatile, Affordable & Gentle Excitation
- Hinged UV-Blocking Safety Cover Protects User from UV Radiation
- Stainless steel Frame and Robust Steel Housing
- Increased UV Intensity and Homogeneity
- CE Certified
- PL (Product Liability) Insurance

* Ideal for Standard Gel Documentation and Preparative Work, especially for Detection of very small amount of DNA & RNA Stained by EtBr
* Long-Life Electronic (Low Heat, no Flickering)
* High (100%) / Low (75%) Intensity Switch

### Specification

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Features</td>
<td>Standard Case-type</td>
<td>Compact Case-type</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UV Lamps</td>
<td>15W (\times) 6ea (90W)</td>
<td>8W (\times) 6ea (48W)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Consumption</td>
<td>95 W</td>
<td>52 W</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Filter Size (mm)</td>
<td>200 (\times) 200 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimension</td>
<td>495 (\times) 330 (\times) h95 mm</td>
<td>350 (\times) 275 (\times) h95 mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>10 kg</td>
<td>8 kg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Packing Size (mm) &amp; Gross Weight (kg)</td>
<td>520 (\times) 380 (\times) h220 mm, 12 kg</td>
<td>380 (\times) 320 (\times) h220 mm, 10 kg</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Power Supply*</td>
<td>1 Phase, AC 120V, 60Hz or AC 230V, 50/60Hz</td>
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</tr>
</tbody>
</table>

* Other Specifications are available upon Customer’s Request.

### Ordering Information

**Standard Case-type, 15W, UV Lamp \(\times\) 6ea**

- DH.WUV00010 Transilluminator, 230V, 365nm, “WUV-L10”
- DH.WUV00020 , 312nm, “WUV-L20”
- DH.WUV00050 , 365+312nm, “WUV-L50”
- DH.WUV02010 Transilluminator, 120V, 365nm, “WUV-L10”
- DH.WUV02020 , 312nm, “WUV-L20”
- DH.WUV02050 , 365+312nm, “WUV-L50”

**Compact Case-type, 8W, UV Lamp \(\times\) 6ea**

- DH.WUV00110 Transilluminator, 230V, 365nm, “WUV-M10”
- DH.WUV00120 , 312nm, “WUV-M20”
- DH.WUV00210 Transilluminator, 120V, 365nm, “WUV-M10”
- DH.WUV00220 , 312nm, “WUV-M20”

**Spare UV Lamps**

- DH.WUV01010 UV Lamp, 365nm, 15W, for “WUV-L10/-L50”, “UVL365”
- DH.WUV01020 , 312nm, 15W, for “WUV-L20/-L50”, “UVL312”
- DH.WUV01110 , 365nm, 8W, for “WUV-M10”, “UVM365”
- DH.WUV02110 , 312nm, 8W, for “WUV-M20”, “UVM312”
**DAIHAN-brand® Portable Gel Documentation System, “WGD-20”, 1.5M Pixel CCD Camera, with Certi. & Traceability with Digital CCD Camera & Optical Lens, Portable Darkroom Hood, WiseCapture™ II Capture Software, USB Interface**

- **with Certificate & Traceability:**
  - Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- **The Most Cost-Effective System**
- **High Precise and Large Caliber Optical Lens with Zoom, Focus and Iris Control are Used**
- **CE Certified**
- **PL(Product Liability) Insurance**
  - DNA, RNA gel Imaging Capture and Analysis
  - Digital CCD Camera (Resolution 1.5 Million pixel) with Portable Darkroom is Offered
  - 1360 x 1024, 10-bit CCD, Available for 8-bit Gray Level Image Capturing
  - Power Consumption: N/A
  - Very Compact Portable Darkroom System Enables the Existing Transilluminators in the Lab to be used together with this system. High Flexibility in use is Offered
  - USB 2.0 Interface is available, through which Real-Time Images are transferred directly to PC
  - WiseCapture II™ Software: Easy and Fast Capture of Gel Image
  - TotalLab™ Software: Fully Automatic, Single Button Press Complete Image Analysis in Interesting Area(Optional)

### Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>“WGD-20”</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCD &amp; Pixel Size</td>
<td>1/2 CCD, 4.65 x 4.65 um</td>
</tr>
<tr>
<td>Max. Resolution</td>
<td>1360 x 1024</td>
</tr>
<tr>
<td>Lens Mount &amp; Optical Size</td>
<td>C mount, 7.6 x 6.2 mm</td>
</tr>
<tr>
<td>Connect to PC &amp; Power</td>
<td>USB 2.0, Supplied USB</td>
</tr>
<tr>
<td>Zoom Lens</td>
<td>Iris &amp; Focal Length</td>
</tr>
<tr>
<td></td>
<td>F1.0 - Close, 8-48mm</td>
</tr>
<tr>
<td>Operation Temp.</td>
<td>-10°C to +50°C</td>
</tr>
<tr>
<td>Overall Dimension &amp; Weight</td>
<td>260 x 260 x h430 mm, 9 kg</td>
</tr>
<tr>
<td>Software Capability</td>
<td>Windows XP, Vista &amp; 7</td>
</tr>
<tr>
<td>Packing Size (mm)</td>
<td>400 x 350 x h510 mm, 16 kg</td>
</tr>
</tbody>
</table>

*Other Specifications are available upon Customer’s Request.*

### Ordering Information

- **DH.WGD00020** Gel Doc. System, “WGD-20”, with a Camera, Portable Darkroom Hood and WiseCapture II™
- **DH.WGD00024** Gel Doc. System, “WGD-20S”, with a Camera, Portable Darkroom Hood, and WiseCapture II™, TotalLab™ Quant DNA Analysis S/W

### Optional Transilluminator & S/W

- **DH.WUV00020** (1) Transilluminator, “WUV-L20”, 20 x 20cm Filter
  - 312nm, 15W UV Lamp x 6ea
- **DH.WUV00050** (1) Transilluminator, “WUV-L50”, 20 x 20cm Filter
  - 365nm+312nm, 15W UV Lamp x 6ea
- **DH.WUV00120** (1) Transilluminator, “WUV-M20”, 20 x 20cm Filter
  - 312nm, 8W UV Lamp x 6ea
- **DH.WGD00100** (2) TotalLab™ Quant, DNA Analysis S/W
- **DH.WGD00120** (3) Phoretix 1D, DNA Analysis S/W
- **DH.WGD00121** (4) Phoretix 1D Pro, DNA Analysis S/W
- **DH.WGD00200** LapTop Computer, WGD-Laptop, for WGD Gel Doc.System

### DNA Analysis S/W

- (2) TotalLab™ Quant
  - Automatic and Manual Lane Detection, Background Subtraction
  - Fully Automatic Band Detection, Molecular Size / pI Calibration
  - Quantity Calibration, Normalization
- (3) Phoretix 1D (additional function)
  - Band Matching, Band Picking, Dendrograms, Intensity Calibration
- (4) Phoretix 1D Pro (additional function)
  - Match Band Data Patterns across Large Groups of Lanes
  - Choice of Algorithms to Generate Dendrograms: NeighborJoining, UPGMA, Complete Linkage, Single Linkage, Ward Library, Queries Function

**Sales : by the Nearest Distributors**

**www.DAIHAN-Sci.com or ALLforLAB.com Shopping-mall**
DAIHAN-brand® Unified Gel Documentation System, “WGD-30”, 1.5M Pixel CCD Camera, with Certi. & Traceability
Complete System, USB Interface, Unified Darkroom System, Built in Sliding Transilluminator with Digital CCD Camera & Optical Lens

- with Certificate & Traceability: Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Complete System with Digital CCD Camera, Safety Darkroom Hood and in-built Transilluminator is Offered.
- High-Quality Optical Lens with Zoom, Focus and Iris Control is Used
- CE Certified  ■ PL(Product Liability) Insurance

+ DNA, RNA gel Imaging Capture and Analysis  
+ Unified Darkroom System with in-built Sliding Transilluminator offers very High Safety in use.  
+ Built in Transilluminator: 312nm, 8W×6 UV lamps (UVM-20)  
+ White Light: 2×Fluorescent lamp  
+ Digital CCD Camera (Resolution 1.5 Million pixel)  
+ 1360×1024, 10-bit CCD, Available for 8-bit Gray Level Image Capturing  
+ USB 2.0 Interface is available through which Real-time Images are transferred directly to PC.

WiseCapture II™ Software: Easy and Fast Capture of Gel Image (Included)

Specifiation

<table>
<thead>
<tr>
<th>Model</th>
<th>“WGD-30”</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCD Module</td>
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</tr>
<tr>
<td>CCD &amp; Pixel Size</td>
<td>1 / 2” CCD, 4.65×4.65 um</td>
</tr>
<tr>
<td>Max. Resolution</td>
<td>1360×1024</td>
</tr>
<tr>
<td>Lens Mount &amp; Optical Size</td>
<td>C mount, 7.6×6.2 mm</td>
</tr>
<tr>
<td>Connect to PC &amp; Power</td>
<td>USB 2.0, Supplied USB</td>
</tr>
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<td>Zoom Lens</td>
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<td>Iris &amp; Focal Length</td>
<td>F1.0 - Close, 8–48 mm</td>
</tr>
<tr>
<td>Operation Temp.</td>
<td>-10°C to +50°C</td>
</tr>
<tr>
<td>Transilluminator</td>
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<tr>
<td>UV Lamps &amp; Filter Size</td>
<td>8W×6 ea, 200×200 mm</td>
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<tr>
<td>Wave Length</td>
<td>Single 312 um</td>
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<tr>
<td>Daylight Fluorescent Lamps</td>
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<tr>
<td>Power Consumption</td>
<td>62 W</td>
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<tr>
<td>Power Supply*</td>
<td>1 Phase, AC 120V, 60Hz or 230V, 50/60Hz</td>
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<tr>
<td>Software Capability</td>
<td>Windows XP, Vista &amp; 7</td>
</tr>
<tr>
<td>Overall</td>
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</tr>
<tr>
<td>Dimension (mm) &amp; Weight (kg)</td>
<td>External: 395×393×h777 mm</td>
</tr>
<tr>
<td>Door: 343×257×mm×, Weight: 19 kg</td>
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<tr>
<td>Packing Size (mm) &amp; Gross Weight (kg)</td>
<td>440×440×h750 mm, 23 kg</td>
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</table>

Other Specifications are available upon Customer’s Request.

Ordering Information

DH.WGD00304®, 230V, “WGD-30S”, TotalLab™ Quant DNA Analysis S/W
DH.WGD00230® Gel Doc. System, 120V, “WGD-30”
DH.WGD00234®, 120V, “WGD-30S”, TotalLab™ Quant DNA Analysis S/W

Marks: with a Camera, Darkroom Hood, Transilluminator “WUV-M20”, WiseCapture II™

Optional S/W & Spare UV Lamp

DH.WGD00100 TotalLab™ Quant, DNA Analysis S/W
DH.WGD00120 Phoretix 1D, DNA Analysis S/W
DH.WGD00121 Phoretix 1D Pro, DNA Analysis S/W
DH.WGD00200 LapTop Computer, WGD-Laptop for WGD Gel Doc. System
DH.WUV01110 UV Lamp, 365nm, 8W, for “WUV-M10”, “UVM365”
DH.WUV02110, 312nm, 8W, for “WUV-M20”, “UVM312”

DNA Analysis S/W

(2) TotalLab™ Quant
- Automatic and Manual Lane Detection, Background Subtraction
- Fully Automatic Band Detection, Molecular Size / pI Calibration
- Quantity Calibration, Normalization

(3) Phoretix 1D (additional function)
- Band Matching, Band Picking, Dendrograms, Intensity Calibration

(4) Phoretix 1D Pro (additional function)
- Match Band Data Patterns across Large Groups of Lanes
- Choice of Algorithms to Generate Dendrograms: NeighborJoining, UPGMA, Complete Linkage, Single Linkage, Ward Library, Queries Function

One Stop Analysis