

# Darkroom Kits

## Clean Darkroom Kits

DRU  
DRUC

Catalog Code W6016

Theres darkrooms are composed of a steel fram and block out curtains.

- All five sides of the room are covered with a black-out curtain.
- White LED penlights are available form OptoSigma to check work while in the darkroom.
- Please consider size of your equipment/table when selecting a darkroom size.

| Type              | Darkroom Kits DRU                                                                                                                                                                                                                                                     | Clean Darkroom Kits DRUC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Exterior          |                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Features          | <ul style="list-style-type: none"> <li>● Allows easy installation of a darkroom space indispensable for image measurements, exposure testing, and optical measurements.</li> <li>● Easy to dismantle, making it convenient for transportation and storage.</li> </ul> | <ul style="list-style-type: none"> <li>● Allows easy installation of a clean darkroom space indispensable for highly accurate and reliable optical measurements, testing, and other tasks.</li> <li>● HEPA filters provide Class 100 dust collection efficiency in terms of cleanliness at the air outlet, with wind speed of approximately 0.5m/s. Although it varies according to the darkroom size, the cleanliness inside the darkroom is roughly Class 7 (Class 10,000) within 5 minutes after power-up.</li> <li>● Fitted with an exhaust type compact ventilation fan.</li> </ul> |
| Black-out Curtain | Material                                                                                                                                                                                                                                                              | Obverse side: Polyester, Reverse side: Neoprene rubber                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                   | Light Blocking Effect                                                                                                                                                                                                                                                 | Class 1 shading ability (99.99~100%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                   | Fire Retardancy                                                                                                                                                                                                                                                       | Fire retardant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

### Guide

- ▶ This product comes as a kit including a black-out curtain, pipes and a plastic hammer.
- ▶ Estimated time required for assembly: (e.g.) DRU-1816 will take about 30 minutes (with two people).
- ▶ To ensure optimal cleanliness, wear clean room garments while working in a darkroom. Clean room garments are available for purchase.

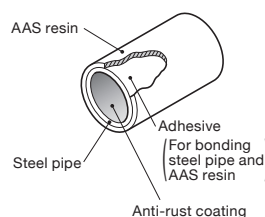
### Attention

- ▶ The blackout curtains have a flap-type entrance where the blackout curtain overlaps in the center entrance way. Curtain-rail-type blackout curtains are also available, but reduce the light blocking. Contact our Sales Division for more information.
- ▶ Darkroom kits include curtain tie clips.
- ▶ Custom sizes or shapes not listed in the catalog are available. Contact our Sales Division for more information.

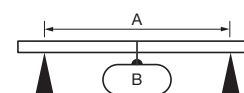
### Frame Pipes

The pipes used for the skeleton framework of the darkroom kits and clean darkroom kits are  $\phi 28\text{mm}$  steel frames. The structure and strength are as shown in the following figure. These pipes can be readily connected and assembled with T- and L-shaped joint pipes using a plastic hammer.

#### Structure



#### Strength



| A<br>[Dimensions] | B<br>[Max. Strength]  |
|-------------------|-----------------------|
| 450mm             | about 1,666N (170kgf) |
| 900mm             | about 784N ( 80kgf)   |
| 1,800mm           | about 392N ( 40kgf)   |

### Specifications

| Darkroom Kits<br>Part Number | Clean Darkroom Kits<br>Part Number | Frontage<br>[mm] | Depth<br>[mm] | Height<br>[mm] |
|------------------------------|------------------------------------|------------------|---------------|----------------|
| DRU-1212                     | DRUC-1212                          | 1,200            | 1,200         | 2,000          |
| DRU-1515                     | DRUC-1515                          | 1,500            | 1,500         | 2,000          |
| DRU-1816                     | DRUC-1816                          | 1,800            | 1,600         | 2,000          |
| DRU-2017                     | DRUC-2017                          | 2,000            | 1,700         | 2,000          |
| DRU-2219                     | DRUC-2219                          | 2,200            | 1,900         | 2,000          |
| DRU-2819                     | DRUC-2819                          | 2,800            | 1,900         | 2,000          |
| DRU-3020                     | DRUC-3020                          | 3,000            | 2,000         | 2,000          |

### N-5820P/DRU/LU-101

Catalog Code **W6017**

#### White LED illumination



This is a LED illumination kit for a simple darkroom unit. It can be attached with a frame ( $\phi$  28mm pipe) of the unit. Brightness is equivalent to fluorescent lamp 20W.

- LED Color: Main light : daylight color, Auxiliary light: bulb color
- AC Power: 100V/50Hz, 60Hz
- Power consumption: 9W
- Illuminance: 217lx (At the point of 1m from the illumination in a darkroom)
- Total luminous flux: 420lm
- Size: 582×70×44(H)mm
- Weight: 0.96kg
- Power ON/OFF: by a pull code
- Accessories: (1) 5m Extension cord (2) Cable clip x5pcs

#### Guide

- Purchase commercial fluorescent lights for replacement.

#### Specifications

|             |             |
|-------------|-------------|
| Part Number | N-5820P-D28 |
|-------------|-------------|

#### White LED Light



#### Specifications

|             |        |
|-------------|--------|
| Part Number | LU-101 |
|-------------|--------|

#### Ventilation Fans



Ventilation fans designed to keep out external light. They are two types: an exhaust version (DRU-VF) and a suction version (DRU-IF).

- Size: (W)160×(D)160×(L)193mm (excluding protrusions)
- Weight: 2.2kg
- Power cord: 3m (with switch)
- Power source: AC100V±10% 50/60Hz
- Power consumption: 14W
- Fan suction/exhaust capability: 2.7m<sup>3</sup>/min. for the motor main unit.

#### Guide

- Additional processing of black-out curtain is required to install this product in a darkroom. Pipes required for installation come with this product.

| Part Number | Type         |
|-------------|--------------|
| DRU-IF      | Suction type |
| DRU-VF      | Exhaust type |

#### Head Twist Switch Dust Proof & Water Proof (IP54)

- Pen Clip Included
- Brightness: 18lm
- battery: AAA alkaline batteries × 2 this
- battery Life: About 12 hours
- Accessories: Pen clip, test for battery

### LMC/LMT

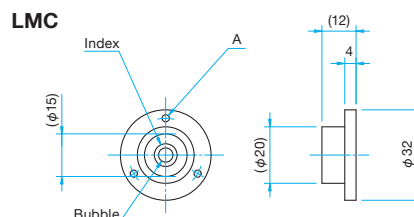
Catalog Code **W6018**

Levels convenient for installing a vibration isolator, optical laboratory bench, or various other instruments.



- The LMC type is round, and the LMT type is T-shaped.
- The LMC type provides horizontal leveling using the bubble and target. They can be secured on equipment or optical system using their mounting holes.
- The LMT type allows simultaneous leveling in two directions, vertical and horizontal.

#### Outline Drawing



#### Specifications

| Part Number | External Size [mm] | A [mm]                       | Sensitivity [°] | Material | Finish        | Weight [kg] |
|-------------|--------------------|------------------------------|-----------------|----------|---------------|-------------|
| LMC-2       | $\phi$ 32          | 3- $\phi$ 2.5, PCD $\phi$ 27 | 1               | Aluminum | Black coating | 0.022       |
| LMC-3       | $\phi$ 32          | 3- $\phi$ 2.5, PCD $\phi$ 26 | 1               | Brass    | Chrome plated | 0.028       |
| LMT-1       | 45×35              | —                            | 1               | Aluminum | Black coating | 0.027       |