RIGOL
Rack Mount Kit

DS8000-R Series Rack Mount Kit
RM1011&RM1012

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RIGOL TECHNOLOGIES CO., LTD.

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WARNING
Indicates a potentially hazardous situation or practice which, if not avoided, will result in serious injury or death.

CAUTION
Indicates a potentially hazardous situation or practice which, if not avoided, could result in damage to the product or loss of important data.

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WARNING It calls attention to an operation, if not correctly performed, could result in potential injury or hazard.

CAUTION   It calls attention to an operation, if not correctly performed, could result in damage to the product or other devices connected to the product.

Safety Symbols on the Product:

Hazardous Voltage	Safety Warning	Protective Earth Terminal	Chassis Ground	Test Ground

Product Overview

This rack mount kit (RM1011 & RM1012) is designed to mount **RIGOL** DS8000-R series digital oscilloscope into a 19-inch cabinet that conforms to the Electronic Industries Association (EIA) standard. RM1011 is designed for installing a single instrument, and RM1012 for two instruments.

Note: Do not keep the air intake areas at the right side of the DS8000-R series digital oscilloscope far away from heat sources.

Rack Mount Installation for a Single Instrument (Recommended)

Kit Part Checklist

Table 1 RM1011 Part List

No.	Name	Qty.	Description
1	Front Bezel	1	--
2	Rear Bezel	1	--
3	Rear Hanging Ear	1	--
4	Left Side Beam	1	--
5	Right Side Beam	1	--
6	M4 Screw	8	M4x8 Phillips Pan Head Screw
7	M6 Screw	8	M6x16 Phillips Pan Head Screw
8	M6 Nut	8	M6 Square Lock Cage Nut

Table 2 DS8000-R Components (available to be disassembled for rack mount installation)

No.	Name	Qty.	Description
9	Hanging Ear	1	--
10	Handle	1	--
11	M3 Screw	7	M3x6 Torx Flat Head Countersunk Screw
12	M4 Screw	2	M4x8 Torx Pan Head Screw

9

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11 12 6 7 8
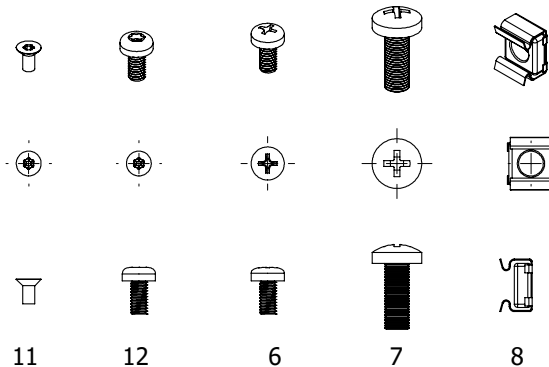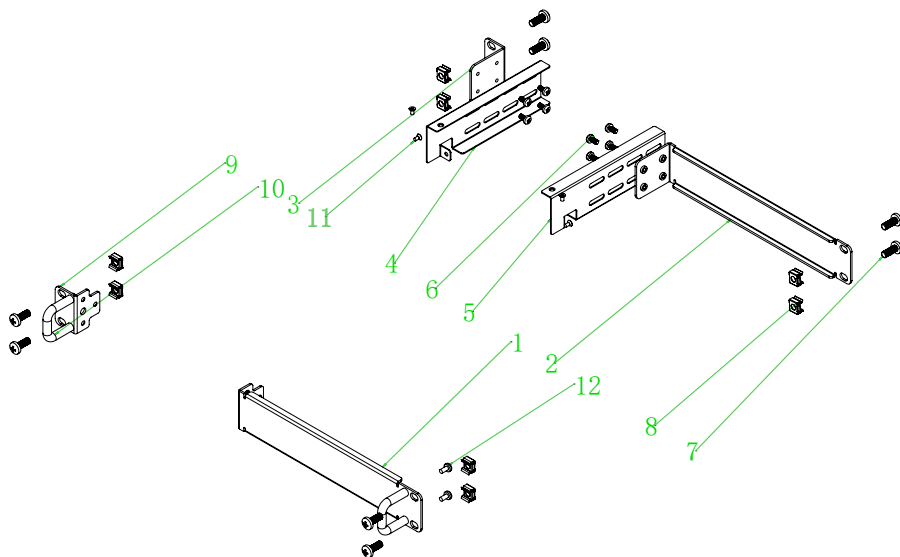
Installation Tool

The PH2 Phillips screwdriver, T10 torx screwdriver, and T20 torx screwdriver are recommended.

Space Requirements

To mount the instrument into the cabinet correctly, please ensure that the following requirements are met.

- The cabinet must be a standard 19-inch one.
- The available height of the cabinet should be at least 1U (44 mm).
- The depth of the cabinet should be at least 600 mm.

The dimensions of the rack are as shown below.
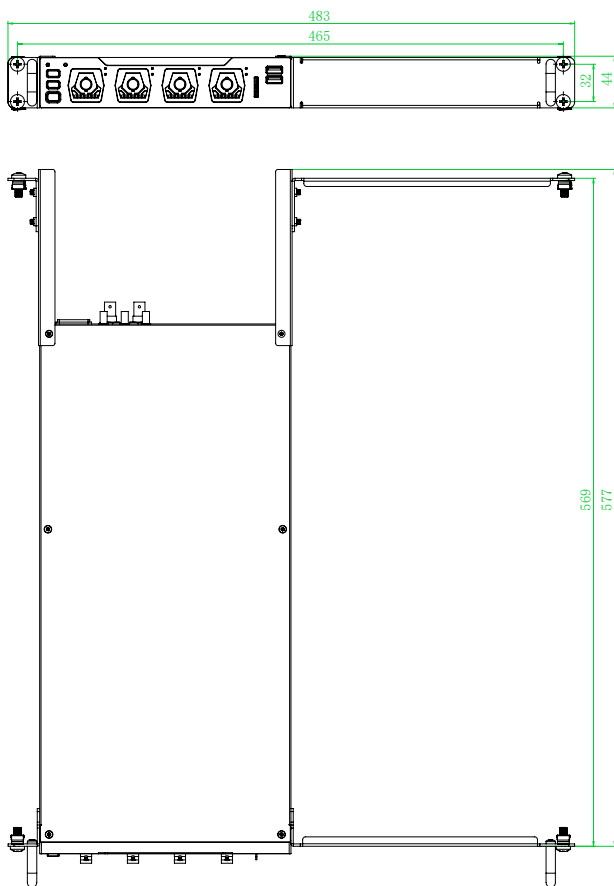
Unit: mm

Installation Procedures

⚠️ **CAUTION**

Only authorized operators are allowed to perform the installation. Improper installation might cause damage to the instrument or an installation failure.

1. Remove the four pads.
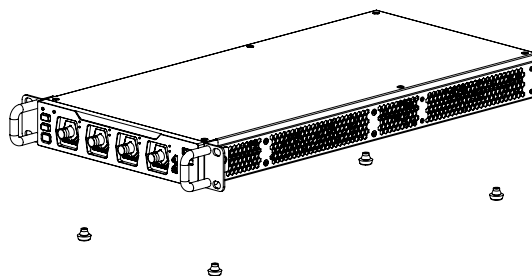
2. Remove three M3x6 torx flat head countersunk screws that secure the hanging ear of the instrument at the right side of the front panel. Then remove two M4x8 torx pan head screws that secure the handle. You only need to remove the hanging ear at one side and keep the hanging ear at the other side unremoved.
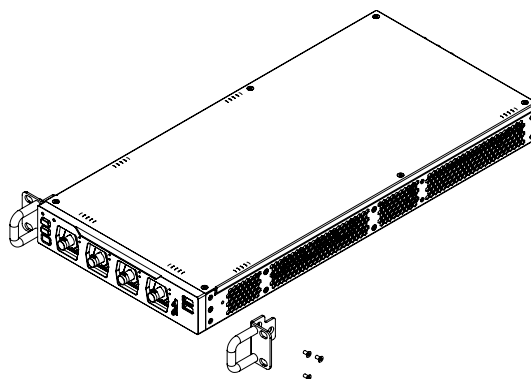
3. Use two M4x8 torx pan head screws to fasten the handle to the front bezel.
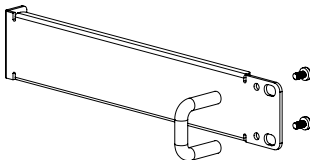

4. Attach the front bezel to the right side of the front panel, then secure the bezel by using three M3x6 torx flat head countersunk screws.
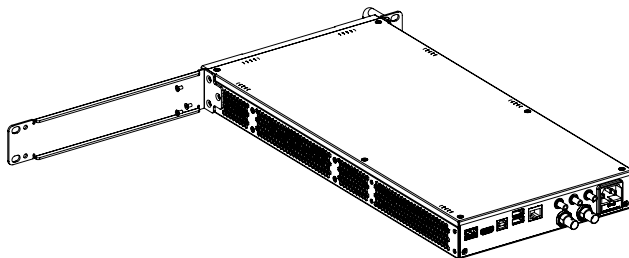

5. Secure the left and right side beams to the two sides of the rear panel by using the available M3x6 torx flat head countersunk screws on the instrument.
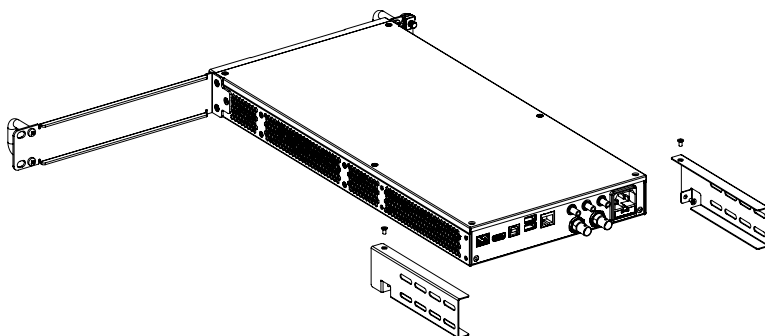
6.   Mount the assembled instrument and rack into a standard 19-inch cabinet by using four
   M6x16 phillips pan head screws and four M6 square lock cage nuts.
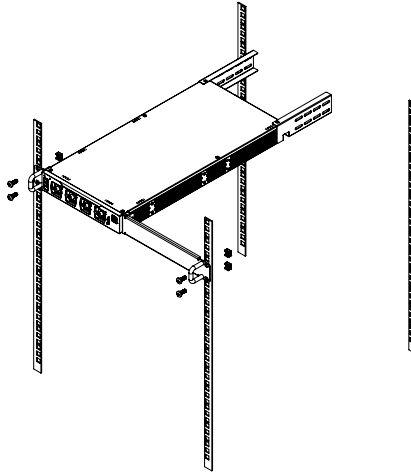
7.   Use two M6x16 phillips pan head screws and two M6 square lock cage nuts to secure
       the rear hanging ear to the cabinet. Then use four M4x8 phillips pan head screws to
       secure the left side beam to the rear hanging ear.
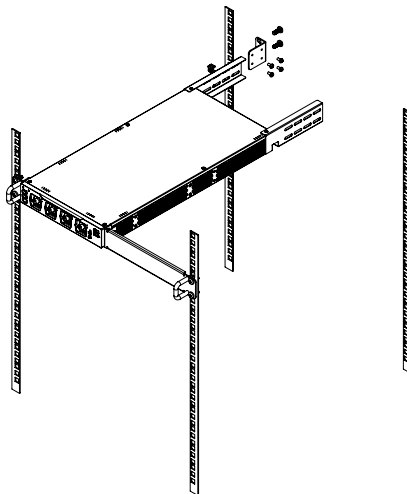
8. Use two M6x16 phillips pan head screws and two M6 square lock cage nuts to secure the rear bezel to the rack. Then use four M4x8 phillips pan head screws to secure the right side beam to the rear bezel.
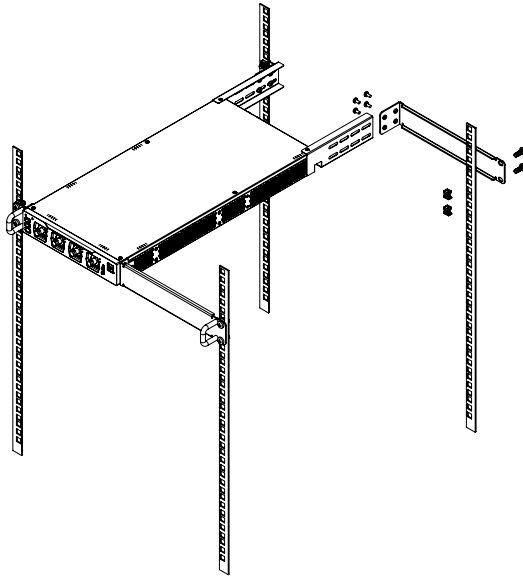
9. The following figure shows the front view of the successful rack mount installation for one instrument.
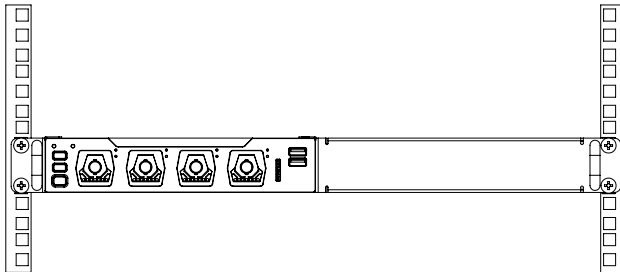
-End-

# Rack Mount Installation for Two Instruments

Kit Part Checklist

Table 3 RM1012 Part List

No.	Name	Qty.	Description
1	Rear Hanging Ear	2	--
2	Left Side Beam	1	--
3	Right Side Beam	1	--
4	Connecting Plate	4	--
5	M4 Screw	8	M4x8 Phillips Pan Head Screw
6	M6 Screw	8	M6x16 Phillips Pan Head Screw
7	M6 Nut	8	M6 Square Lock Cage Nut

Table 4 DS8000-R Components (available to be disassembled for rack mount installation)

No.	Name	Qty.	Description
8	Hanging Ear	2	--
9	Handle	2	--
10	M3 Screw	18	M3x6 Torx Flat Head Countersunk Screw

6
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8
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2
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1

10 5 6 7
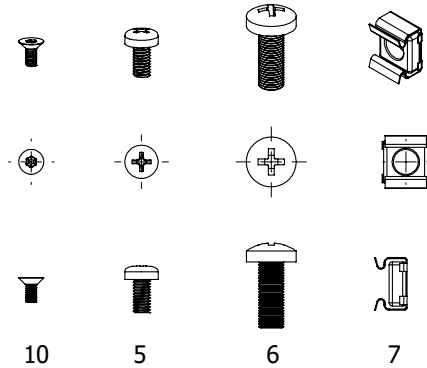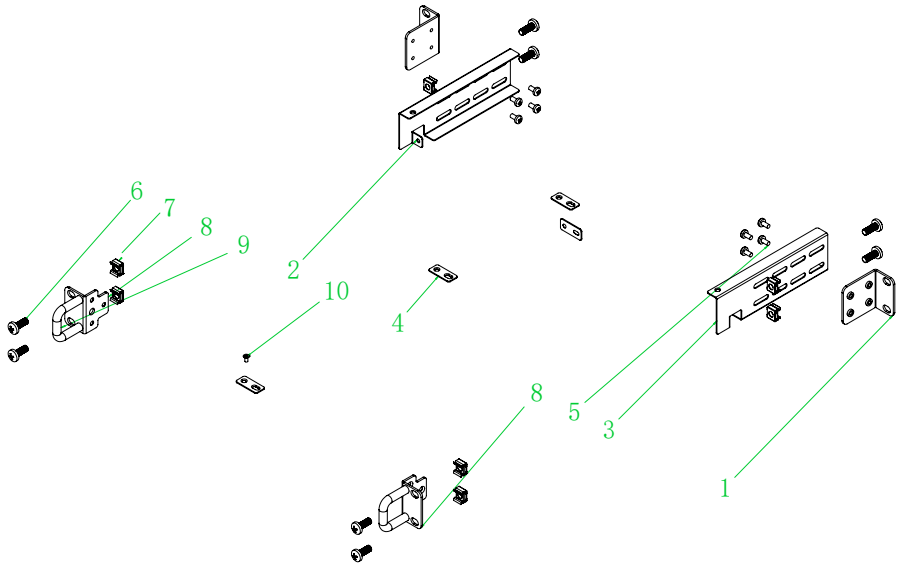
Installation Tool

The PH2 Phillips screwdriver and T10 torx screwdriver are recommended.

Space Requirements

To mount the instrument into the cabinet correctly, please ensure that the following requirements are met.

● The cabinet must be a standard 19-inch one.
● The available height of the cabinet should be at least 1U (44 mm).
● The depth of the cabinet should be at least 600 mm.

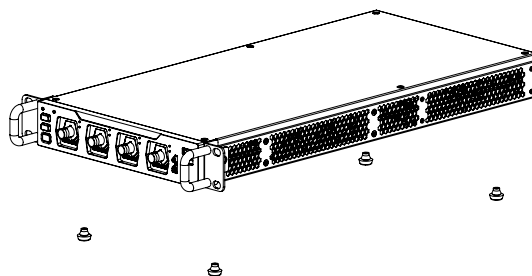The dimensions of the rack are as shown below.
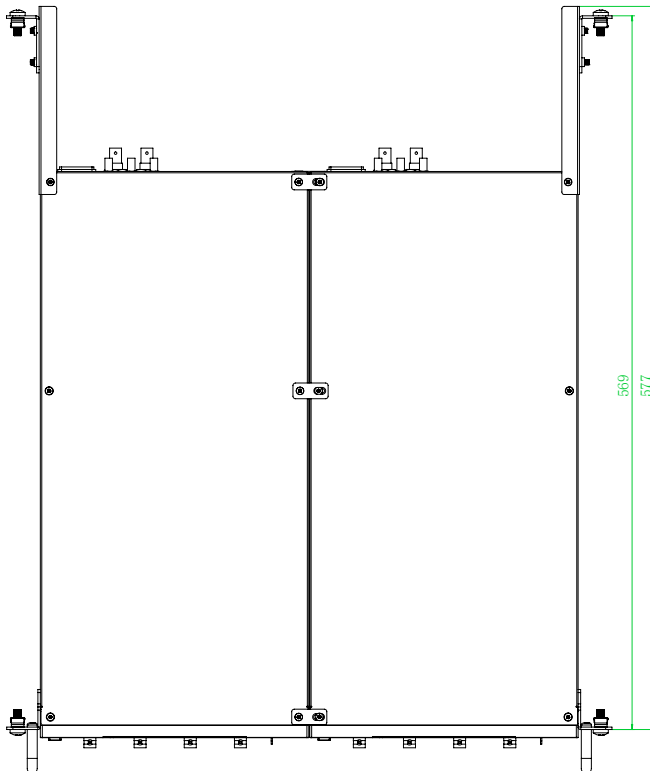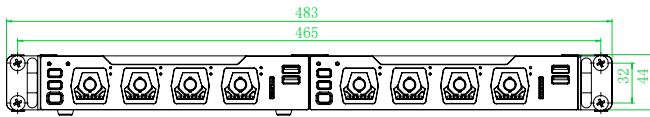
Unit: mm

Installation Procedures

⚠️ **CAUTION**

Only authorized operators are allowed to perform the installation. Improper installation might cause damage to the instrument or an installation failure.

1. Remove the four pads.

2. Remove six M3x6 torx flat head countersunk screws that secure the two hanging ears at a different side of each instrument. You only need to remove the hanging ear at one side for each instrument and keep the hanging ear at the other side unremoved.
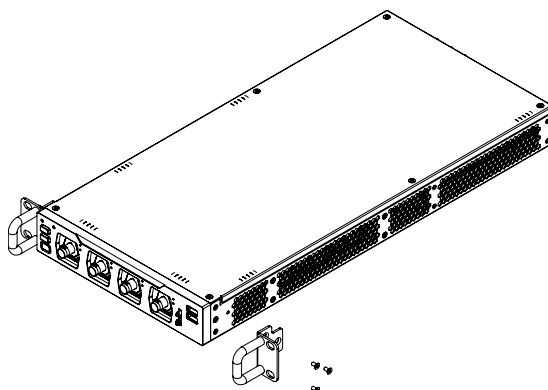
3. Using four connecting plates to fasten the two instruments with eight existing M3x6 torx flat head countersunk screws on the instrument.
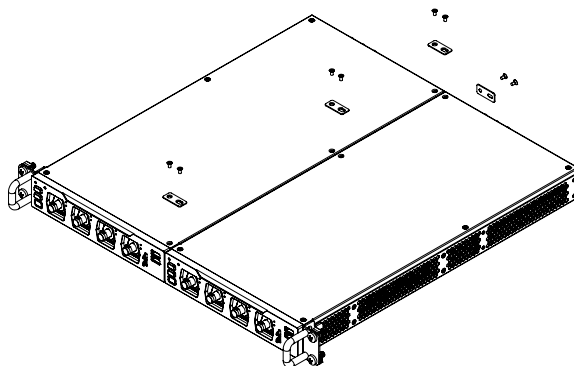

4. Secure the left side beam to the left side of the rear panel of Instrument A; and secure the right side beam to the right side of the rear panel of Instrument B by using the existing M3x6 torx flat head countersunk screws on the instrument.
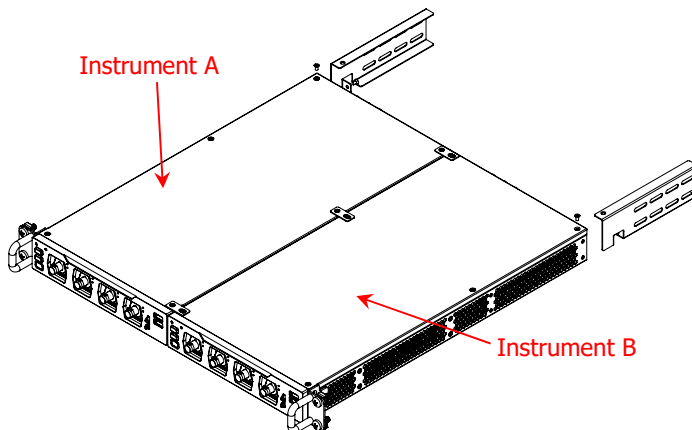
5.   Mount the assembled instrument and rack into a standard 19-inch cabinet by using four
      M6x16 phillips pan head screws and four M6 square lock cage nuts.
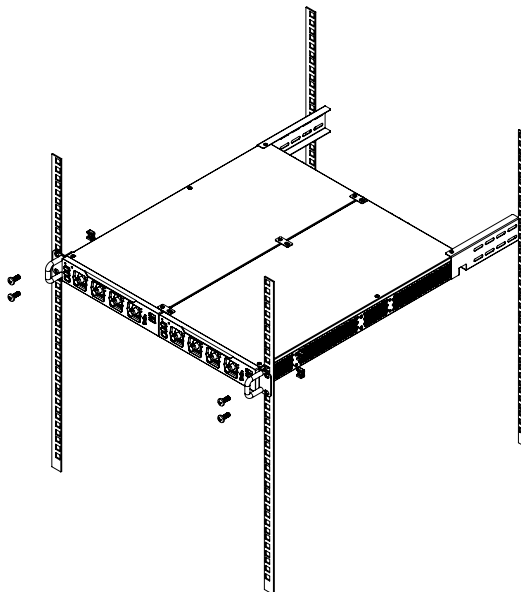
6.   Use four M6x16 phillips pan head screws and four M6 square lock cage nuts to secure
      the two rear hanging ears to the rack. Then use four M4x8 phillips pan head screws to
      secure the left side beam of Instrument A to the rear hanging ear; use four M4x8
      phillips pan head screws to secure the right side beam of Instrument B to another rear
      hanging ear.
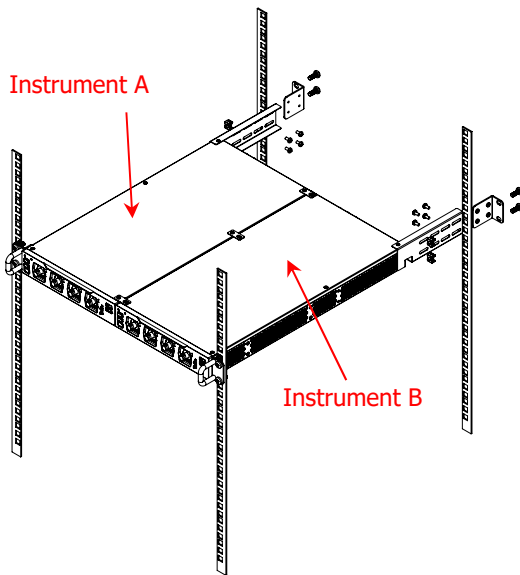
7.   The following figure shows the front view of the successful rack mount installation for two instruments.
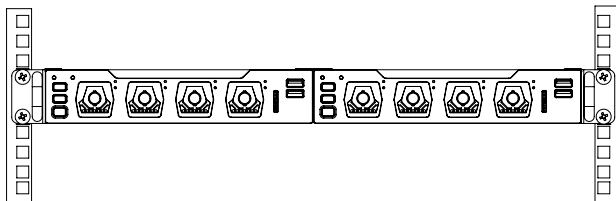
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Usage Requirement for Rack Mount Installation into the Cabinet

Working Environment

Temperature

Operating: -40℃ to +30℃
Non-operating: -50℃ to +70℃

Humidity

● Operating:
Below +30℃: ≤90%RH (without condensation)
+30℃ to +40℃: ≤75%RH (without condensation)
+40℃ to +50℃: ≤45%RH (without condensation)

● Non-operating:
Below 65℃: ≤90% RH (without condensation)

Ventilation Requirement

This oscilloscope uses a fan to force cooling. Please make sure that the air intake and exhaust areas are free from obstructions and have free air. When using it in rack setting, keep at least 1 m clearance from the surroundings of the cabinet. When running in the cabinet, keep it run in the room temperature at 30℃.

Cabinet Diagram