Radiometer Physics
A Rohde & Schwarz Company

RADAR INSTALLATION

INFORMATION AND REQUIREMENTS

1. For the installation we need to know where the radar is going to be installed. Please let us know whether or not you plan to put the radar **on a roof**.
2. If the installation is planned on a roof, please let us know whether or not it is possible to use an **elevator** to bring flight cases to the roof and make sure that we can transport items (through doors, elevator etc) with a **footprint of 2 m x 2 m**.
3. Alternatively, a **crane** has to be used for the roof installation. This has to be provided by the customer.
4. For the installation the assistance (help with assembling and calibration) of **at least 3 people** is needed.
5. For the receiver calibration **30 L of liquid nitrogen** are required. This has to be provided by the customer on the day of the installation.
6. The standard **power cable has a 16A-6h 5-pin plug** (see image below). The plug has IP44. A power supply with the compatible power socket must be available at the site. The scanner and each radar system use a **separate 220 V phase**. The peak consumption on each phase is **2 kW**.

7. Power and data cables are **50 m** long. Please check that the power supply is not further away from the installation point.
8. The Host PC must be installed in-house. For the Host PC and the fiber-to-optic converter **two (in total) standard 220 V Schuko power sockets** are needed. Please also consider to arrange the internet access to the Host PC (this is recommended but not mandatory).
9. The radar should be installed on a **solid horizontal surface** (e.g. concrete plate). Grass fields and gravel surfaces should be avoided.
10. For the training (if made on-site) a room with a white board and/or a beamer/big screen is required. The training is given as an interactive lecture (no slides), participants are supposed to make notes during the training. One day of training covers the theoretical part, next day is for the practical (software) session.

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BOXES AND DIMENSIONS

W-Band 94 GHz:

2x Flight cases (radar and accessories):

115L x 135W x 105H (cm), weight 235kg
125L x 70W x 120H (cm), weight 120kg

Wooden box for the 94GHz scanning unit:

164L x 124T x 124H (cm), weight approx. 550 – 600kg

K-Band 35 GHz:

1x Flight case (radar):

165L x 90W x 130H (cm), 235kg

Wooden box for the 35GHz scanning unit:

200L x 160W x 180H (cm), weight approx. 750kg

Dual frequency radar

2x Flight cases (radar and accessories) W-Band 94 GHz:

115L x 135W x 105H (cm), weight 235kg
125L x 70W x 120H (cm), weight 120kg

1x Flight case (radar) K-Band 35 GHz:

165L x 90W x 130H (cm), 235kg

Wooden box for the combined 94Ghz and 35GHz scanning unit:

200L x 160W x 180H (cm), weight approx. 800kg

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For unloading and unpacking the scanner, a big fork lifter is required.

A pallet truck is not sufficient.