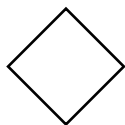


SkySpec Model Configuration Guide

INTRODUCTION

The SkySpec instrument series is highly modular. The flow-charts in this document are meant to help you finding the exact configuration to best meet your individual requirements and guide you through the ordering process.

1. Use the first page to identify the basic system type. Click on the instrument symbol or turn over to the indicated page to continue with the corresponding sub-chart.
2. Follow the arrows in the sub-chart from top to bottom. On the way you come across the names of all relevant articles. A detailed description for each article can be found in the price list and data sheets. The meaning of the symbols is as follows:



Branching. A decision is required here.

If unsure, check the comments in the price list or the SkySpec datasheets for details.



Red arrows indicate the default pathway.



Rectangles represent actual articles. Colour indicates their necessity (see captions on the left).

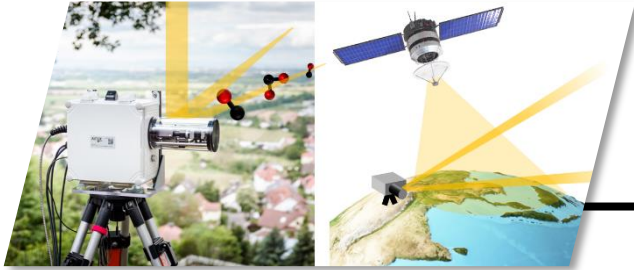
When coming across articles to be ordered, gather them on a list or mark them using the checkboxes on the upper right of the rectangle. Checkboxes of required articles are marked by default.

Application

Required instrument

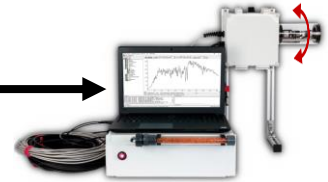
Stationary Measurements

Pollution monitoring • Atmospheric chemistry • Retrieval of vertical profiles • Satellite validation



Fixed azimuthal direction

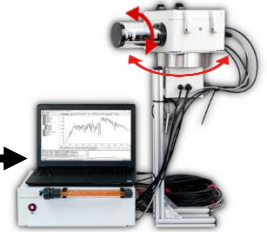
SkySpec 1D



Continue on page 3

With azimuth motor

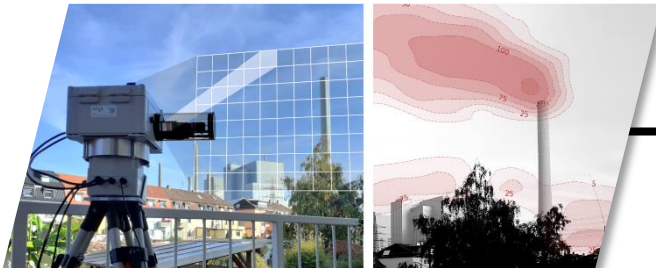
SkySpec 2D



Continue on page 5

Trace gas imaging

Gas images of point sources/areas • Leak detection



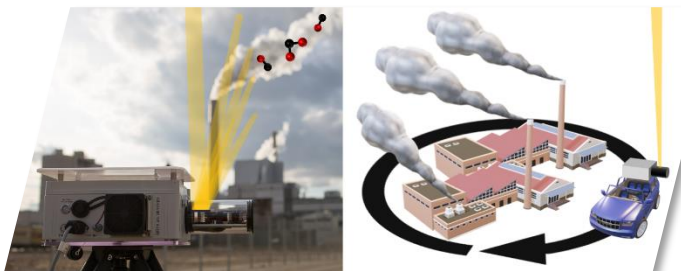
Compact



Continue on page 7

Mobile applications

Short term monitoring in remote places • Vehicle measurements
Point emission measurements • Area in- and outflow



Mini



Continue on page 8

Separate Telescope



Continue on page 9

Custom applications

Separate SkySpec telescope and spectrometer units for integration in custom measurement setups

Separate Spectrometer



Continue on page 11

SkySpec 1D

SYSTEM MAIN UNIT(S)

SKY-TELE-1D ☒

Custom configurations are possible.
Please contact Airyx GmbH for more
information.

Number of spectrometers?

2
Enhanced spectral
range and coverage
of gases

1
Reduced spectral
range and coverage
of gases

Detectors?

Detector?

High sensitivity for
both, UV and Vis:
SO₂ | O₃^{UV} | O₄^{UV} |
HCHO | BrO | HONO
| NO₂^{UV} | NO₂^{Vis} |
O₄^{Vis} | O₃^{Vis} | IO |
H₂O | CHOCHO

High sensitivity in UV:
SO₂ | O₃^{UV} | O₄^{UV} | HCHO |
BrO | HONO | NO₂^{UV}
Regular sensitivity in Vis:
NO₂^{Vis} | O₄^{Vis} | O₃^{Vis} | IO |
H₂O | CHOCHO

Regular sensitivity for
both UV and Vis. Cost
efficient, but only
recommended for Vis
species:
NO₂^{Vis} | O₄^{Vis} | O₃^{Vis} |
IO | H₂O | CHOCHO

High sensitivity.
For detection of
SO₂ | O₃^{UV} | O₄^{UV} |
HCHO | BrO | HONO
| NO₂^{UV} | NO₂^{Vis} |
O₄^{Vis} | O₃^{Vis} | IO |
H₂O | CHOCHO

Regular sensitivity.
Cost efficient, but only
recommended only for
Vis species:
NO₂^{Vis} | O₄^{Vis} | O₃^{Vis} | IO
| H₂O | CHOCHO

SKY-SBOX-
2S-HGD

SKY-SBOX-
2S-MGD

SKY-SBOX-
2S-RGD

SKY-SBOX-
1S-HGD

SKY-SBOX-
1S-RGD

SOFTWARE
DATA ANALYSIS

SKY-EVAL-V3-2S

SKY-EVAL-V3-1S

SOFTWARE
MEASUREMENT

SKY-SOFT-STD ☒

INSTRUMENT CONFIGURATION

SKY-CON-TCAM0

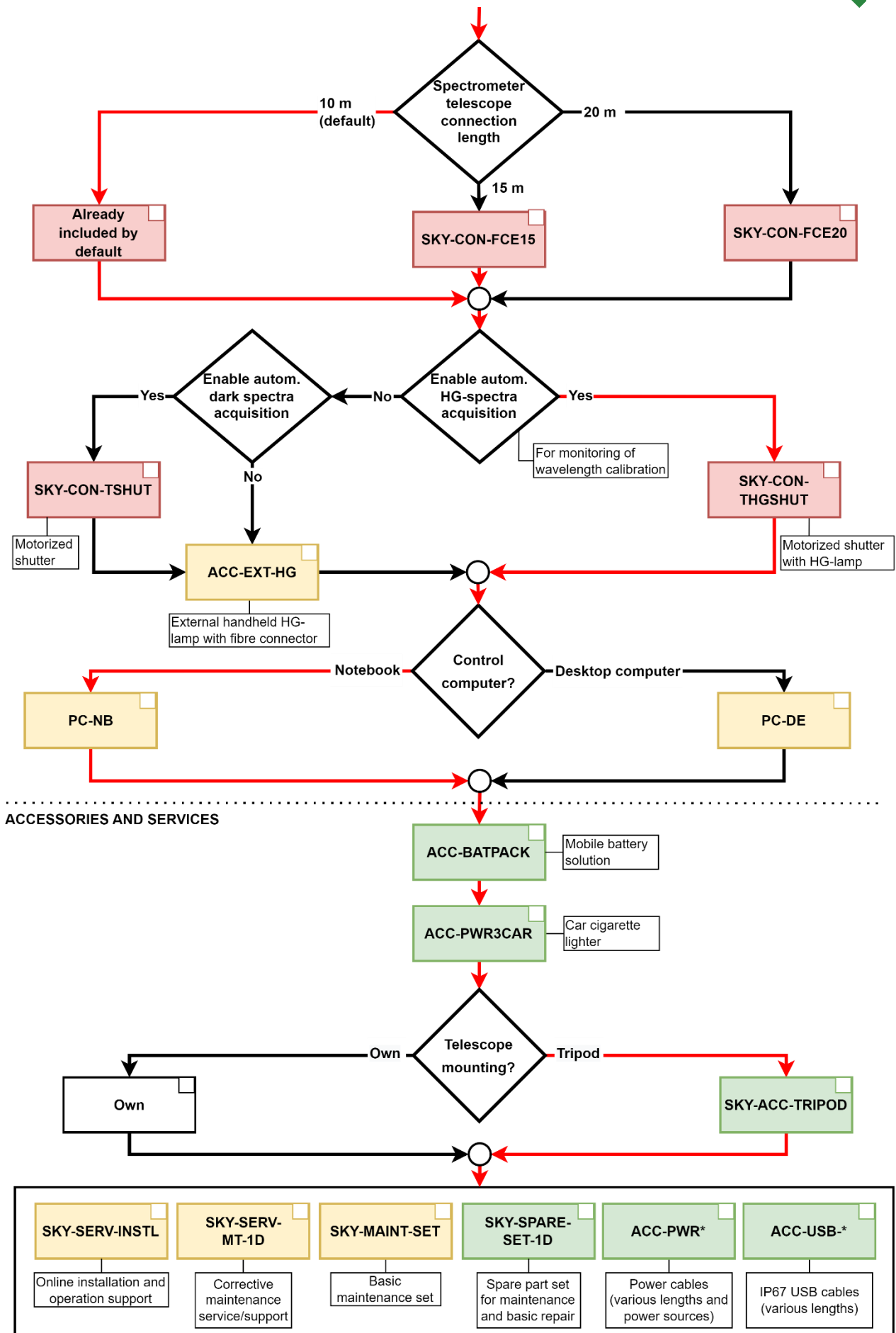
Adds a 1st camera covering
half of the sky hemisphere

SKY-CON-TCAM180

Adds a 2nd camera to cover
the full hemisphere

ACC-PWR-8A ☒

External power supply
110 to 220 V - 12 V / 8.5 A

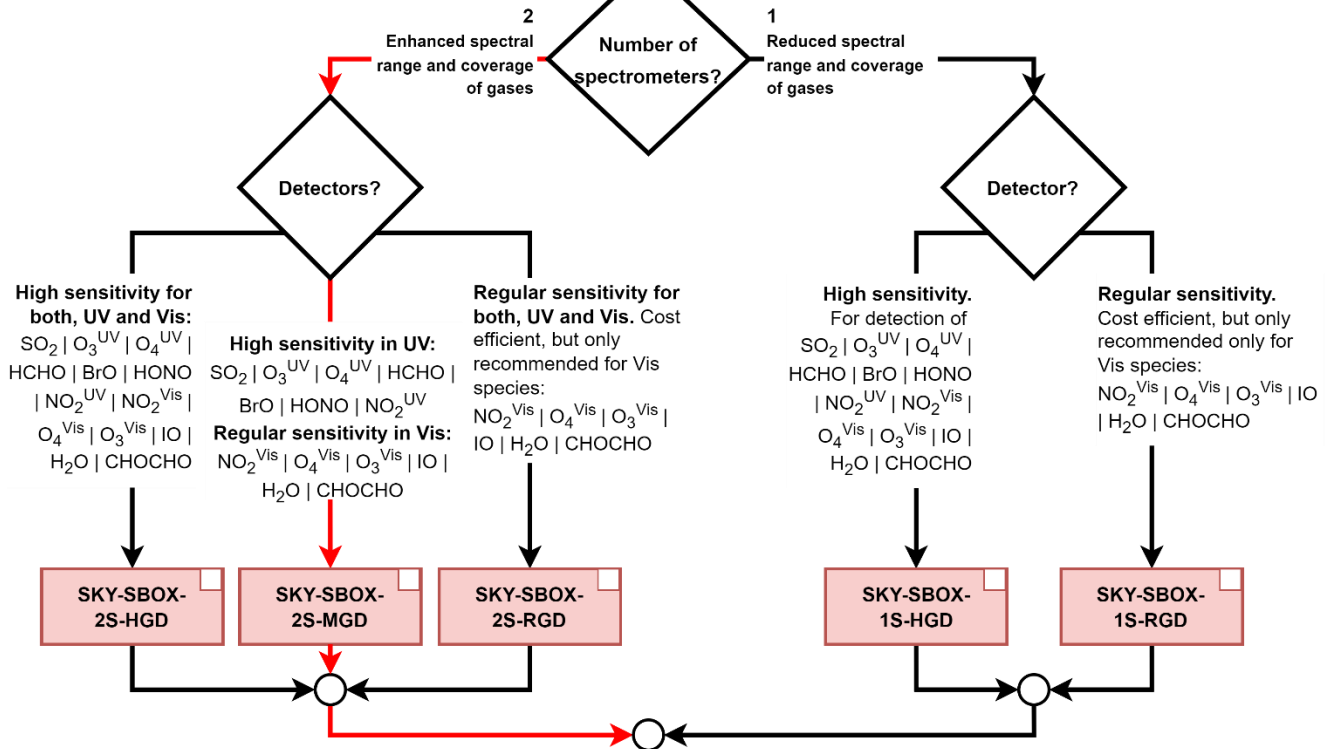


SkySpec 2D

SYSTEM MAIN UNIT(S)

SKY-TELE-2D ^X

Custom configurations are possible.
Please contact Airyx GmbH for more information.



SOFTWARE MEASUREMENT

SKY-SOFT-STD

Standard applications

Application?

2D-Imaging

SKY-SOFT-IMG

SOFTWARE DATA ANALYSIS

SKY-EVAL-V3-2S

Number of spectrometers?

SKY-EVAL-V3-1S

SKY-EVAL-IMG

INSTRUMENT CONFIGURATION

SKY-CON-TCAM0

Adds a 1st camera covering half of the sky hemisphere

Adds a 1st camera covering half of the sky hemisphere

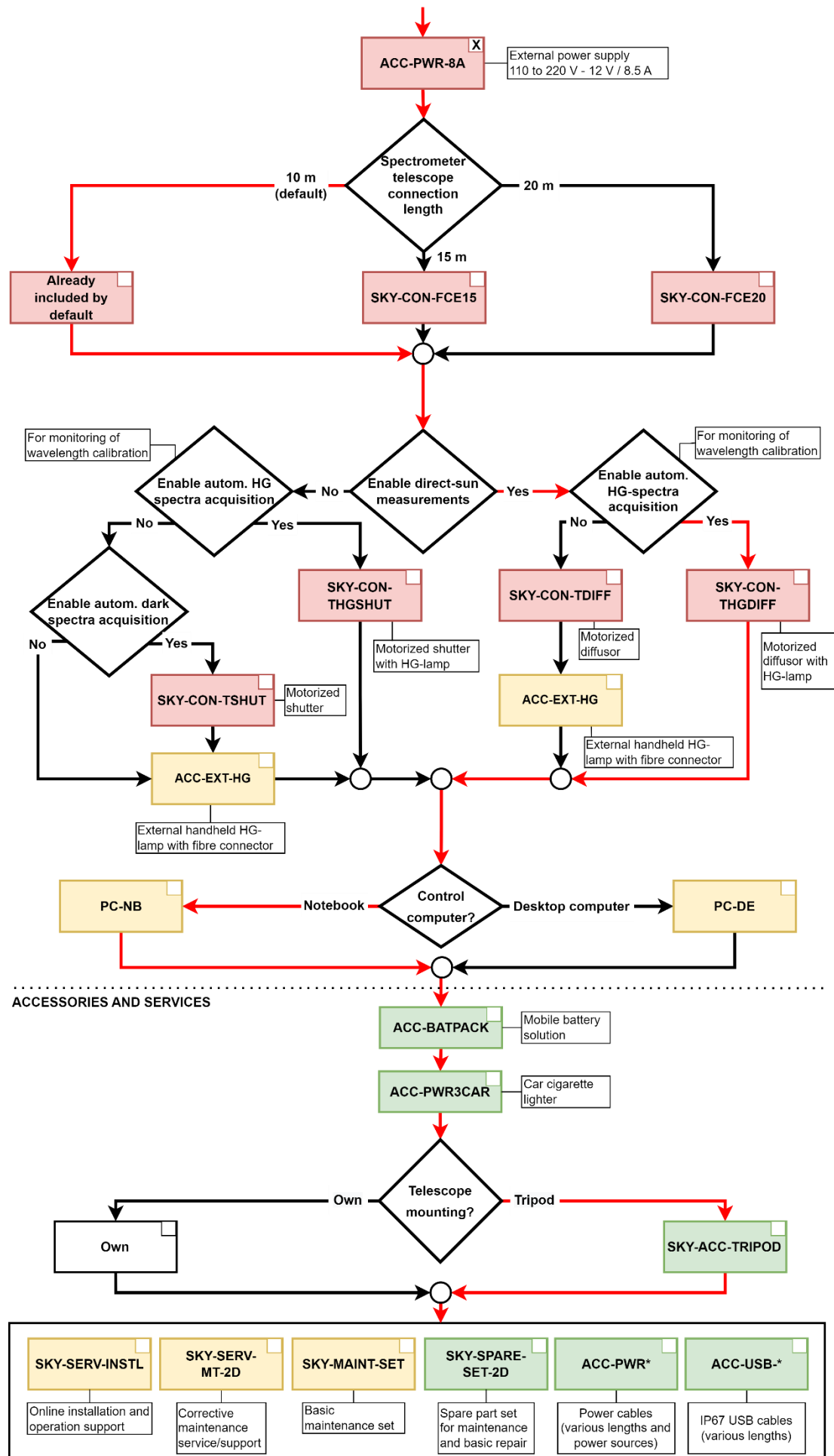
SKY-CON-TCAM0

SKY-CON-TCAM180

Adds a 2nd camera to cover the full hemisphere

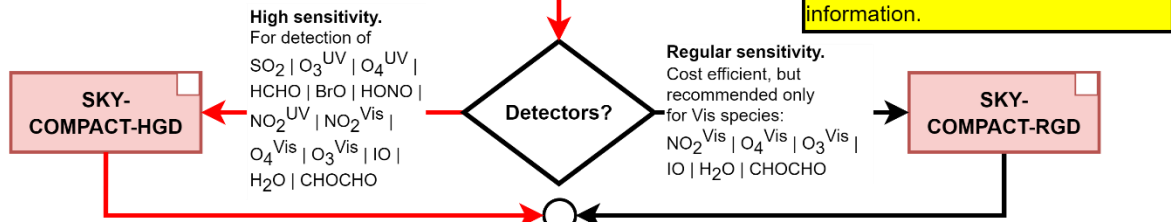
Adds a 2nd to cover the full hemisphere

SKY-CON-TCAM180

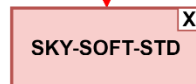


SkySpec Compact

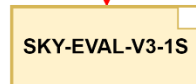
SYSTEM MAIN UNIT(S)



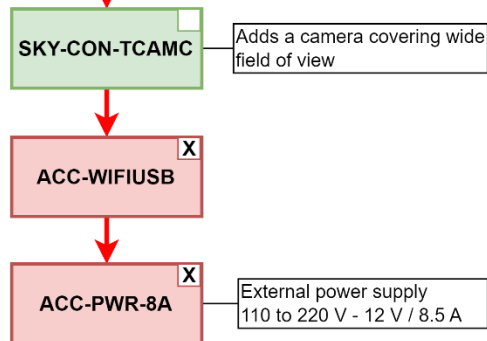
SOFTWARE MEASUREMENT



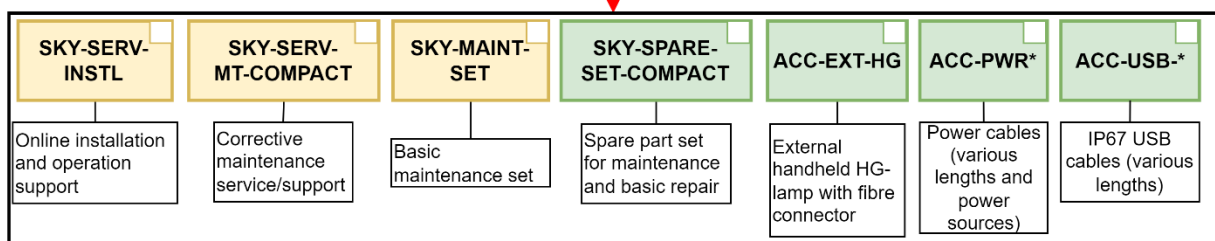
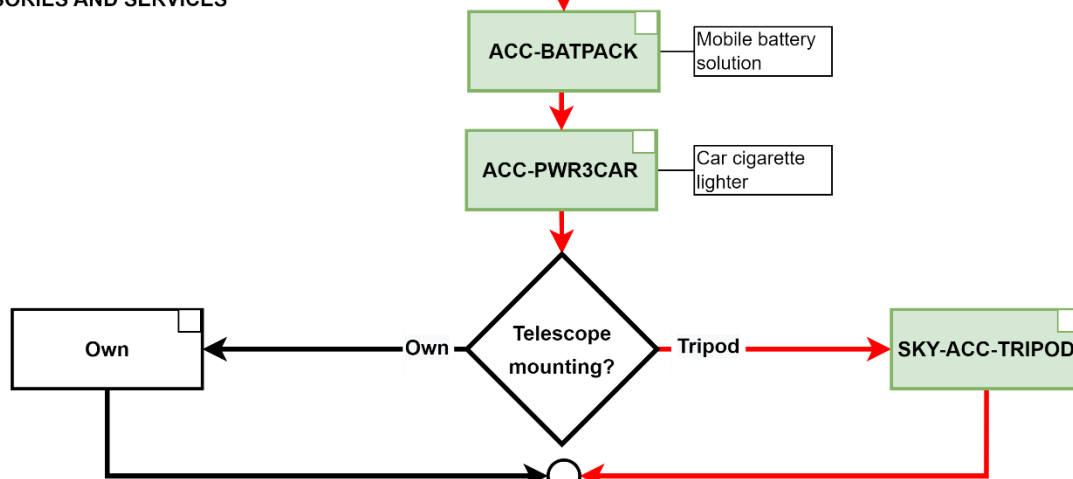
SOFTWARE DATA ANALYSIS

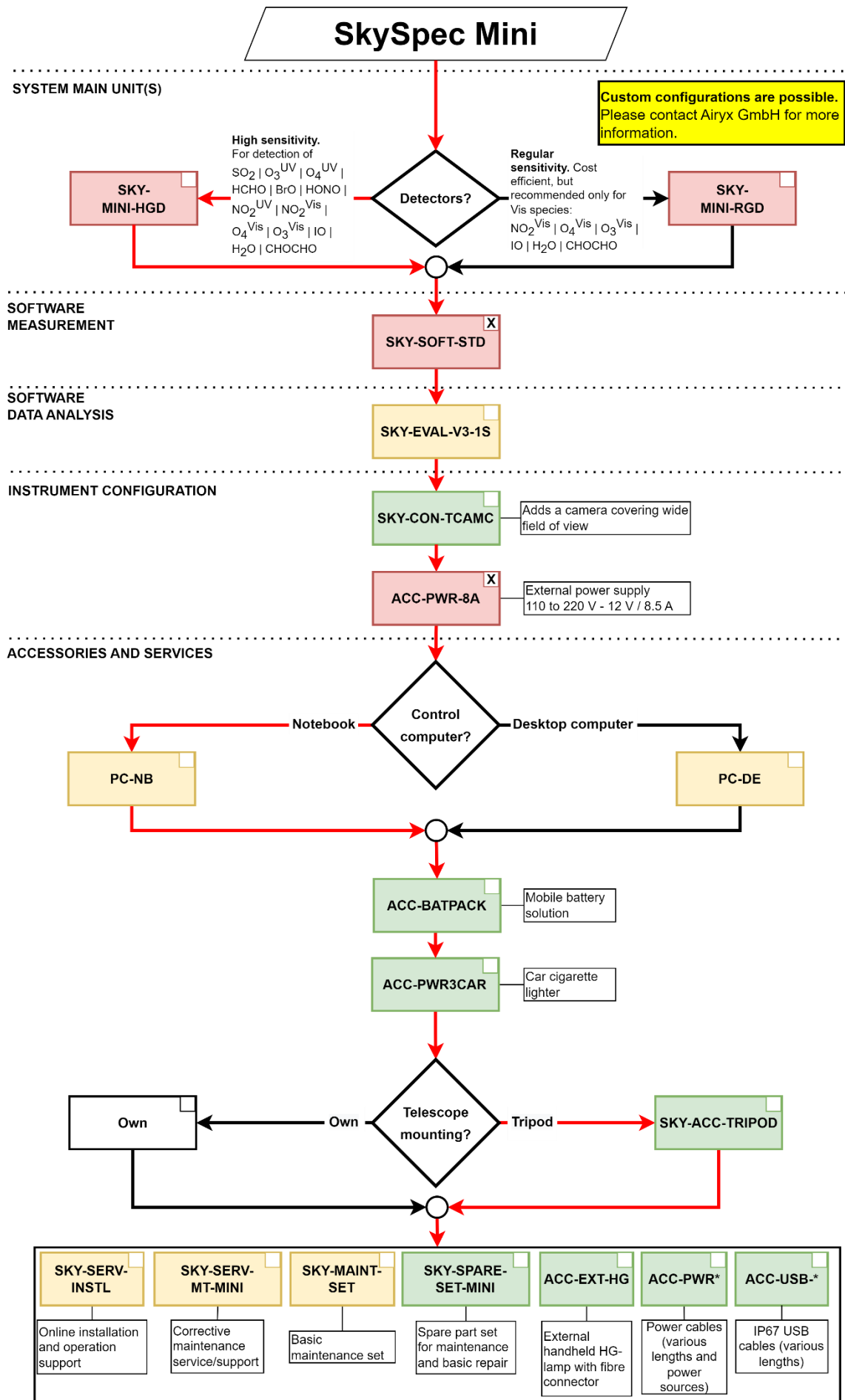


INSTRUMENT CONFIGURATION



ACCESSORIES AND SERVICES





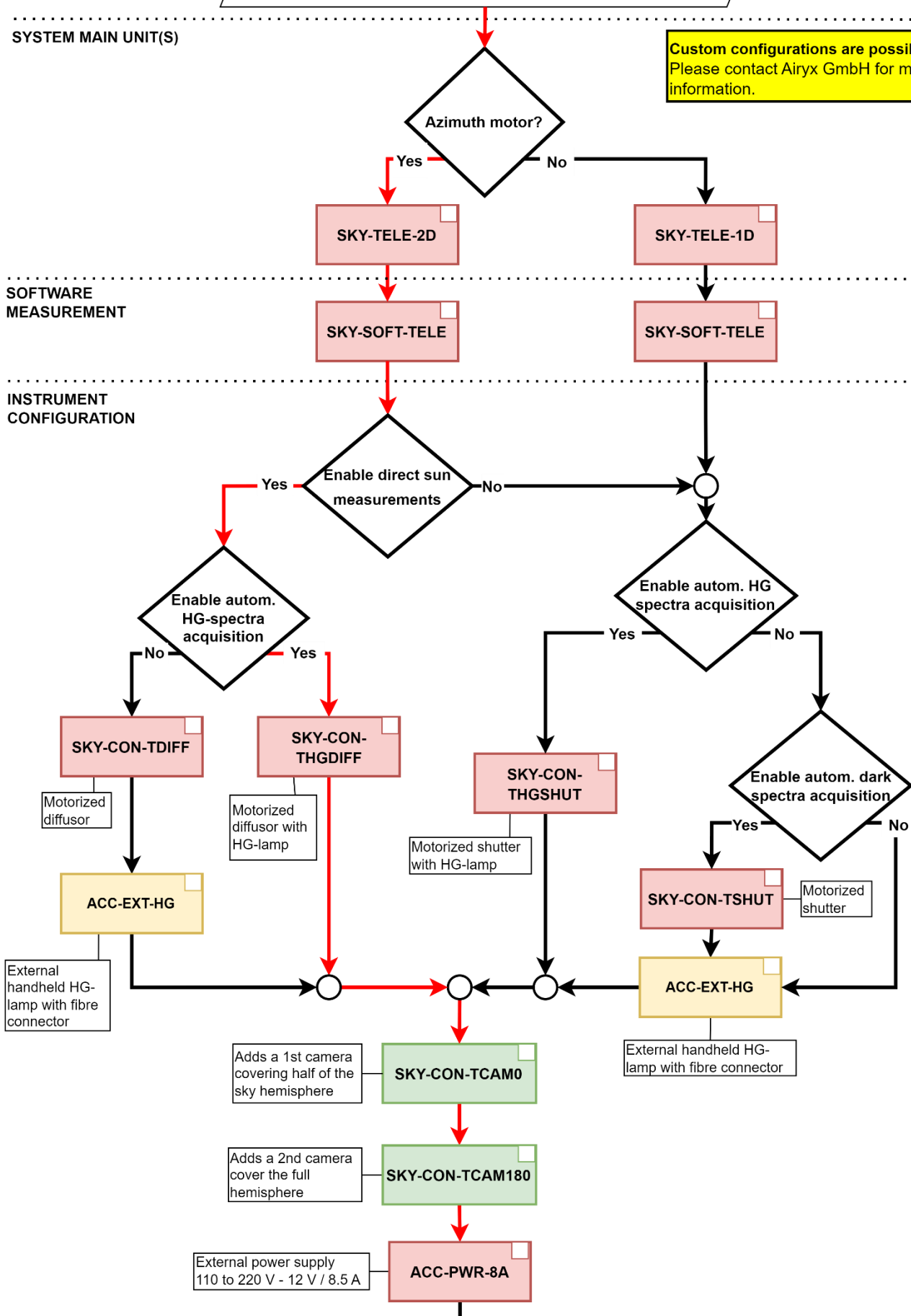
Separate telescope units

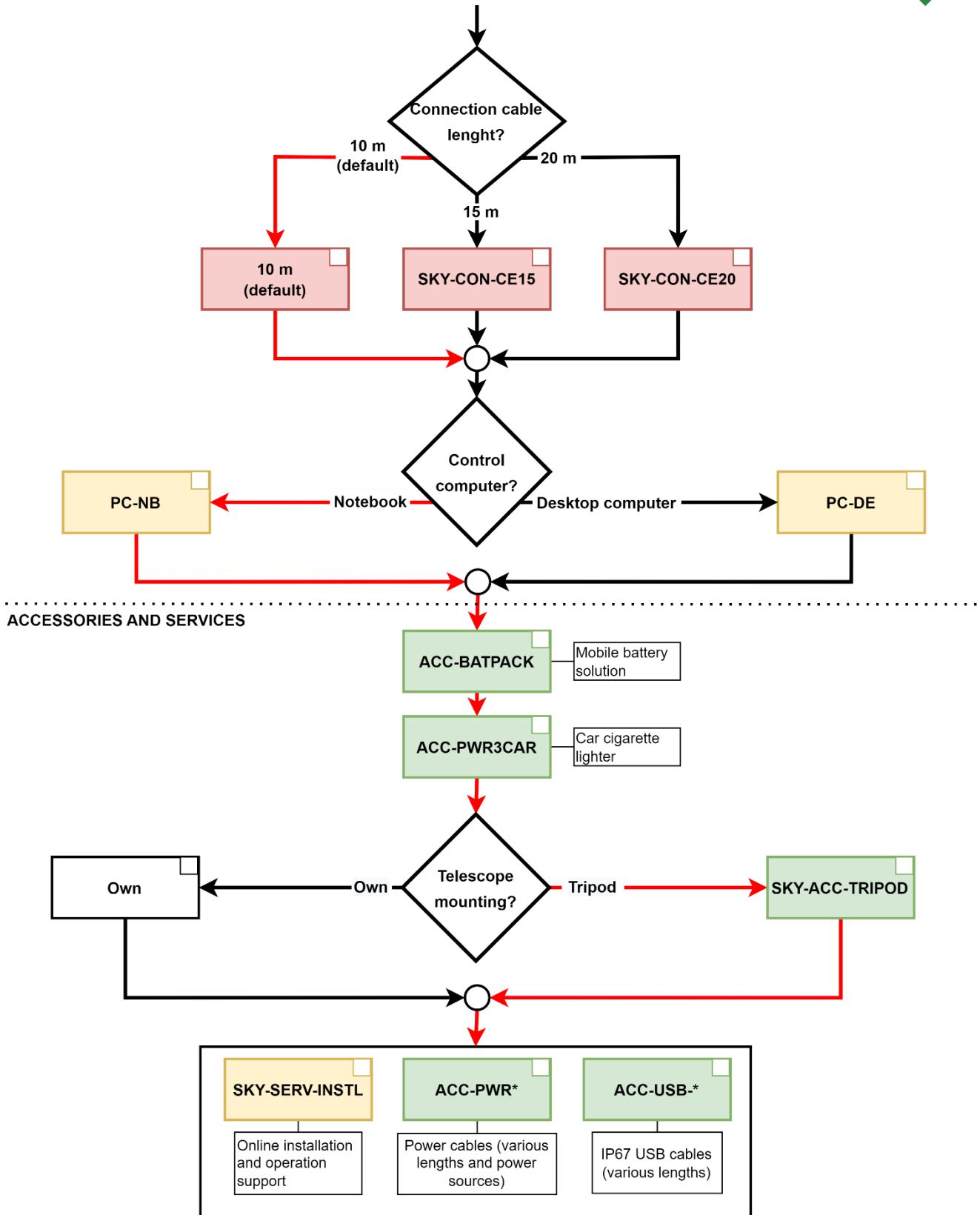
SYSTEM MAIN UNIT(S)

Custom configurations are possible.
Please contact Airyx GmbH for more information.

SOFTWARE
MEASUREMENT

INSTRUMENT
CONFIGURATION

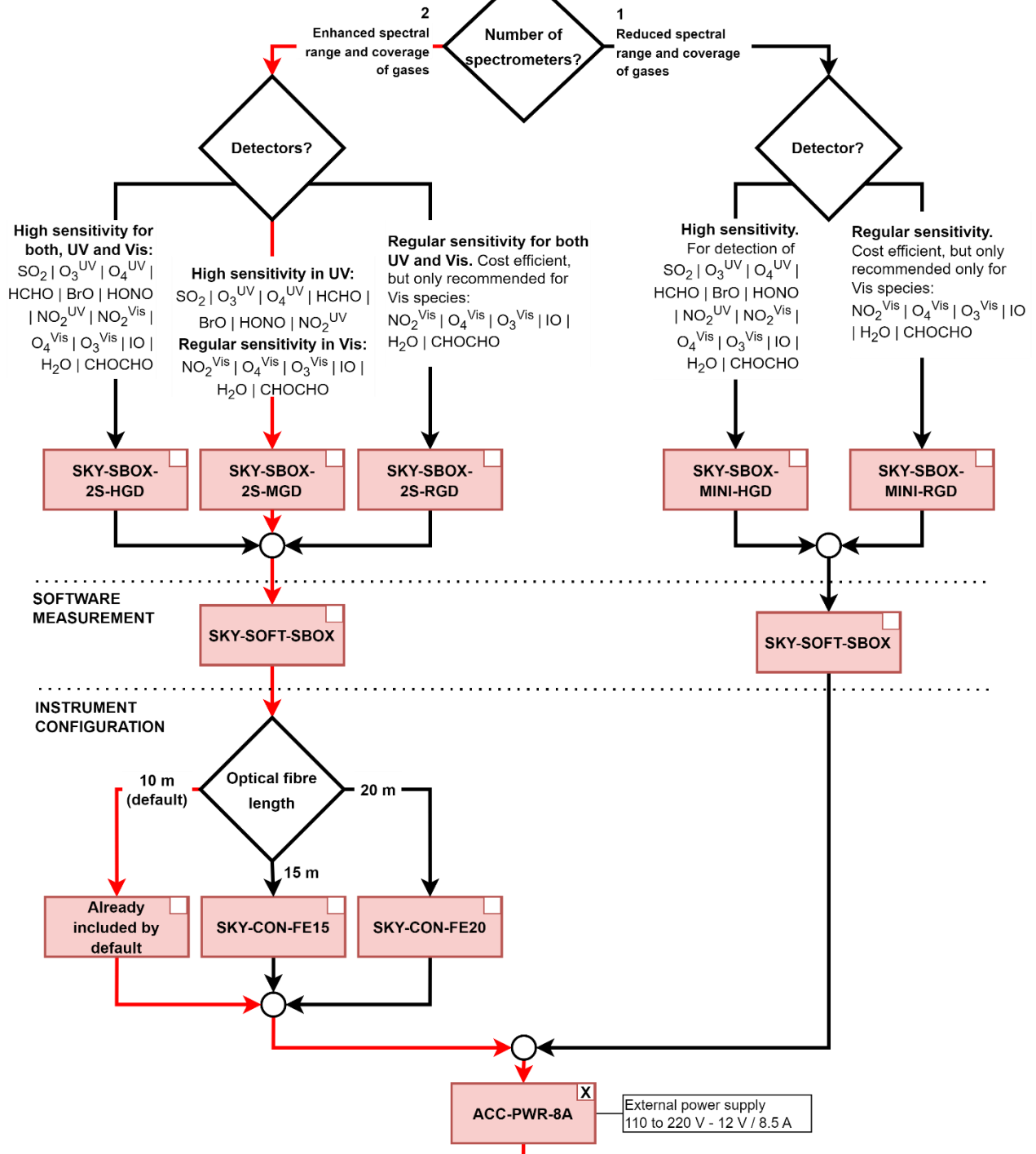




Separate spectrometer units

SYSTEM MAIN UNIT(S)

Custom configurations are possible.
Please contact Airyx GmbH for more information.



ACCESSORIES AND SERVICES

