Product overview of Airyx GmbH



SkySpec (SS) Subtypes Description Comments Related articles 2D Image Instruments Compact series SKY-COMPACT-HGD | SKYSPEC-COMPACT-v.260-SYSTEM - HIGH GRADE DETECTOR GENERAL: Full autonomous and compact telescope-spectrometer system REQUIRED ARTICLES: Measurement software [SKY-SOFT-STD] • Passive UV/VIS remote sensing • Trace gas profiling from ground level to 2 km • Height resolution up to with embedded measurement computer for skylight spectra acquisition at WIFI Stick [ACC-WIFIUSB] • External power supply [ACC-PWR-8A] 100 m • Detectable gases: NO2, HCHO, SO2, O4, O3, H2O, HONO, Glyoxal, BrO and IO arbitrary viewing elevations. Custom wavelength configurations on request > Telescope: 1D motorised for elevation scans • Elevation range: -10° to 190° • Tilt sensor based RECOMMENDED ARTICLES: Tripod [SKY-ACC-TRIPOD] • Evaluation HIGH GRADE DETECTOR: In contrast to [SKY-COMPACT-RGD], the [SKYsoftware [SKY-EVAL-V3-1S] • Cameras [SKY-CON-TCAMC] • Lan automatic real-time elevation angle correction (elevation accuracy: < 0.2° (1g)) • Heater for cold temperatures • FOV (~0.3°) optimised for MAX-DOAS applications • Lense focal width: 75 mm • Lense COMPACT-HGD]'s spectrometer features a highly sensitive and vertically Data Cable IP68 [ACC-LANX] • 12 V Power Cable Extension IP68 • clear aperture: 22.5 mm • BG3 filter for stray light reduction • Weatherproof housing for outdoor extended back thinned CCD detector, more than doubling the photon yield Spare part set [SKY-SPARE-SET-COMP] • Maintenance Set [SKY-MAINT-SET] • Tablet [ACC-TAB] • Services [SKY-SERV-INSTL] & compared to a regular CMOS. For measurements of UV absorbing target > Spectrometer: high grade back thinned CCD detector • Low straylight design • Spectral range: 300 - 460 gases like O3, SO2, HONO, HCHO or BrO, we therefore recommend the [SKY-[SKY-SERV-MT-COMP] COMPACT-HGD] instrument. If the focus is on Vis absorbing target gases like nm • Spectral resolution: < 0.7 nm • High spectral sampling: > 6 px/FWHM • Active temperature stabilisation • Dark spectra, wavelength calibration (~0.05 nm accuracy) and detector non-linearity NO2, H2O, IO or CHOCHO, consider to use the cost-efficient [SKY-COMPACT-> Integrated PC (Win10 system) • Integrated GPS • Software for automated measurements included • Spectral evaluation software separate available 12V power connection Polycarbonate IP64 housing • Dust and weatherproof (incl. weatherproof connectors) • Box dimensions: 30 x 20 x 13.2 cm3 • Optics tube length: 12.5 cm • Weight ~7 kg > Data communication: LAN • Wi-Fi (with external adapter ACC-WIFILISB) SKY-COMPACT-RGD SKYSPEC-COMPACT-v.260-SYSTEM - REGULAR GRADE DETECTOR GENERAL: Full autonomous and compact telescope-spectrometer system REQUIRED ARTICLES: Measurement software [SKY-SOFT-STD] • Passive UV/VIS remote sensing • Trace gas profiling from ground level to 2 km • Height resolution up to with embedded measurement computer for skylight spectra acquisition at WIFI Stick [ACC-WIFIUSB] • External power supply [ACC-PWR-8A] 100 m • Detectable gases: NO2, HCHO, SO2, O4, O3, H2O, HONO, Glyoxal, BrO and IO arbitrary viewing elevations. Custom wavelength configurations on request. RECOMMENDED ARTICLES: Tripod [SKY-ACC-TRIPOD] • Evaluation > Telescope: 1D motorised for elevation scans • Elevation range: -10° to 190° • Tilt sensor based automatic real-time elevation angle correction (elevation accuracy: < 0.2° (10)) • Heater for cold REGULAR GRADE DETECTOR: In contrast to [SKY-COMPACT-RGD], the [SKYsoftware [SKY-EVAL-V3-1S] • Cameras [SKY-CON-TCAMC] • Lan temperatures • FOV (~0.3°) optimised for MAX-DOAS applications • Lense focal width: 75 mm • Lense COMPACT-HGDI's spectrometer features a highly sensitive and vertically Data Cable IP68 [ACC-LANX] • 12 V Power Cable Extension IP68 • clear aperture: 22.5 mm • Weatherproof housing for outdoor application extended back thinned CCD detector, more than doubling the photon Spare part set [SKY-SPARE-SET-COMP] • Maintenance Set [SKY-> Spectrometer: regular grade CMOS detector • Low straylight design • Spectral range: 300 - 460 nm • compared to a regular CMOS. For measurements of UV absorbing target MAINT-SET] • Tablet [ACC-TAB] • Services [SKY-SERV-INSTL] & gases like O3, SO2, HONO, HCHO or BrO, we therefore recommend the [SKY-[SKY-SERV-MT-COMP] Spectral resolution: < 0.7 nm • High spectral sampling: > 6 px/FWHM • Active temperature stabilisation • Dark spectra, wavelength calibration (~0.05 nm accuracy) and detector non-linearity correction included COMPACT-HGD] instrument. If the focus is on Vis absorbing target gases like > Integrated PC (Win10 system) • Integrated GPS • Software for automated measurements included • NO2, H2O, IO or CHOCHO, consider to use the cost-efficient [SKY-COMPACT-Spectral evaluation software available RGD]. 12V power connection Polycarbonate IP64 housing • Dust and weatherproof (incl. weatherproof connectors) • Box dimensions: 30 x 20 x 13.2 cm3 • Optics tube length: 12.5 cm • Weight ~7 kg Data communication: LAN • Wi-Fi (with external adapter ACC-WIFIUSB) Included: 2 m LAN cable with IP68 connector Mini series SKY-MINI-HGD SKYSPEC-MINI-v.260-SYSTEM - HIGH GRADE DETECTOR REQUIRED ARTICLES: Measurement software [SKY-SOFT-STD] • GENERAL: Small telescope-spectrometer system for skylight spectra > Passive UV/VIS remote sensing • Trace gas profiling from ground level to 2 km • Height resolution up to acquisition at arbitrary viewing elevations. Typical detectable gases: NO2, External power supply [ACC-PWR-8A] 100 m • Detectable gases: NO2, HCHO, SO2, O4, O3, H2O, HONO, Glyoxal, BrO and IO SO2, O4, HCHO, BrO, H2O, HONO, IO and CHOCHO, Custom wavelength > Telescope: 1D motorised for elevation scans • Elevation range: -10° to 190° • Tilt sensor based configurations on request. Combine with measurement laptop (see RECOMMENDED ARTICLES: Measurement computer [PC-*] • automatic real-time elevation angle correction (0.2° pointing accuracy) • Heater for cold temperatures • recommended articles below) to obtain a complete SkySpec measurement Evaluation software [SKY-EVAL-V3-1S] • Cameras [SKY-CON-TCAMC] • Tripod [SKY-ACC-TRIPOD] • Spare part set [SKY-SPARE-FOV (~0.3°) optimised for MAX-DOAS applications • Lense focal width: 75 mm • Lense clear aperture: 22.5 system. Requires an external PC for measurements. mm • Weatherproof housing for outdoor application SET-MINI] • Maintenance set [SKY-MAINT-SET] • Services [SKY-> Spectrometer: High grade back thinned CCD detector • Low straylight design • Spectral range: 300 - 460 HIGH GRADE DETECTOR: In contrast to [SKY-MINI-RGD], the [SKY-MINI-SERV-INSTL] & [SKY-SERV-MT-MINI] nm • Spectral resolution: < 0.7 nm • High spectral sampling: > 6 px/FWHM • Active temperature HGDI's spectrometer features a highly sensitive and vertically extended stabilisation • Dark spectra, wavelength calibration (~0.05 nm accuracy) and detector non-linearity back thinned CCD detector, more than doubling the photon yield compared correction included to a regular CMOS. For measurements of LIV absorbing target gases like O3

SO2, HONO, HCHO or BrO, we therefore recommend the [SKY-MINI-HGD]

or CHOCHO, consider to use the cost-efficient [SKY-MINI-RGD].

instrument. If the focus is on Vis absorbing target gases like NO2, H2O, IO

· Software for automated measurements included • Spectral evaluation software separate available

Polycarbonate IP64 housing • Dust and weatherproof (incl. weatherproof connectors) • Box dimensions:

Connection for 12V power supply

Data communication: USB 2.0

30 x 20 x 13.2 cm3 • Optics tube length: 12.5 cm • Weight ~7 kg



					Subtypes
ltem#	Description	Comments	Related articles	lmage	1D 2D Comp
SKY-MINI-RGD	SKYSPEC-MINI-v.260-SYSTEM - REGULAR GRADE DETECTOR > Passive UV/VIS remote sensing • Trace gas profiling from ground level to 2 km • Height resolution up to 100 m • Detectable gases: NO2, HCHO, SO2, O4, O3, H2O, HONO, Glyoxal, BrO and IO > Telescope: 1D motorised for elevation scans • Elevation range: -10° to 190° • Tilt sensor based automatic real-time elevation angle correction (0.2° pointing accuracy) • Heater for cold temperatures • FOV (-0.3°) optimised for MAX-DOAS applications • Lense focal width: 75 mm • Lense clear aperture: 22.5 mm • Weatherproof housing for outdoor application > Spectrometer: Regular grade CMOS detector • Low straylight design • Spectral range: 300 · 460 nm • Spectral resolution: < 0.7 nm • High spectral sampling: > 6 px/FWHM • Active temperature stabilisation • Dark spectra, wavelength calibration (-0.05 nm accuracy) and detector non-linearity correction included • Software for automated measurements included • Spectral evaluation software available • Connection for 12V power supply • Polycarbonate IP64 housing • Dust and weatherproof (incl. weatherproof connectors) • Box dimensions: 30 x 20 x 13.2 cm³ • Optics tube length: 12.5 cm • Weight -7 kg > Data communication: USB 2.0 > 2 m USB cable with IP67 connector included	SO2, O4, HCHO, BrO, H2O, HONO, IO and CHOCHO. Custom wavelength configurations on request. Combine with measurement laptop (see recommended articles below) to obtain a complete SkySpec measurement			
1D/2D series	- Spectrometer systems				
SKY-SBOX-25-MGD	SKYSPEC SPECTROMETER-UNIT-v.260 - TWO SPECTROMETERS (UV/VIS) - MIXED GRADE DETECTORS Passive UV/VIS remote sensing • Trace gas profiling from ground level to 2 km • Height resolution up to 100 m • Detectable gases:NOZ, HCHO, SOZ, O4, O3, HZO, HONO, Glyoxal, BrO and IO Spectrometers: Actively temperature stabilised (heating & cooling) • Color filters and bench design minimize straylight • High spectral sampling: > 6 px/FWHM • Dark spectra, wavelength calibration (-0.05 nm accuracy) and detector non-linearity correction included VV-Range: High grade back thinned CCD detector • Spectral range: 300 • 408 nm Spectral resolution: < 0.5 nm VIS-Range: Regular grade CMOS detector • Spectral range: 408 • 553 nm • Spectral resolution: < 0.6 nm Polycarbonate IP64 housing • Box dimensions: 40 x 30 x 13.2 cm³ • Weight -8 kg Connection for 12 V power supply Communication: USB 2.0 Included: Pre-installed and adjusted 10 m (extendable) fused silica optical fibre for simple optical connection to SkySpec telescope units • 2 m USB cable with IP67 connector	detectable gases: NO2, SO2, O4, ICCHO, BrO, H2O, HONO, IO and CHOCHO. Custom wavelength configurations on request. Combine with telescope unit and measurement laptop (see recommended articles below) to obtain a complete SkySpec measurement system. MIXED GRADE DETECTORS: The [SKY-SBOX-25-MGD] is a mixture of the	[SKY-SOFT-IMG] or [SKY-SOFT-SBOX], depending on the choice of the telescope unit [SKY-TELE-*] • External power supply [ACC-PWR-8A] RECOMMENDED ARTICLES: Telescope unit [SKY-TELE-*] • Measurement computer [PC-*] • Evaluation software [SKY-EVAL-*] • Optical fibre extensions [SKY-CON-FE*] • Services [SKY-SERV-INSTL] & [SKY-SERV-MT-1D/2D]	3.6	
SKY-SBOX-2S-HGD	SKYSPEC SPECTROMETER-UNIT-v.260 - TWO SPECTROMETERS (UV/VIS) - HIGH GRADE DETECTORS > Passive UV/VIS remote sensing • Trace gas profiling from ground level to 2 km • Height resolution up to 100 m • Detectable gases: NO2, HCHO, SO2, O4, O3, H2O, HONO, Glyoxal, BrO and IO > Spectrometers: High grade back thinned CCD detectors • Actively temperature stabilised (heating & cooling) • Color filters and bench design minimize straylight • High spectral sampling: > 6 px/FWHM • Dark spectra, wavelength calibration (-0.05 nm accuracy) and detector non-linearity correction included > UV-Range: Spectral range: 300 • 408 nm • Spectral resolution: • 0.6 nm > VIS-Range: Spectral range: 408 • 533 nm • Spectral resolution: • 0.6 nm > Polycarbonate IP64 housing • Box dimensions: 40 x 30 x 13.2 cm³ • Weight -8 kg > Connection for 12 V power supply > Communication: USB 2.0 > Included: Pre-installed and adjusted 10 m (extendable) fused silica optical fibre for simple optical connection to SkySpec telescope units • 2 m USB cable with IP67 connector	GENERAL: Two actively temperature stabilised spectrometers (for UV & VIS spectral range) in a compact, rugged and mobile enclosure. Typical detectable gases: NO2, SO2, O4, HCHO, BrO, H2O, HONO, IO and CHOCHO. Custom wavelength configurations on request. Combine with telescope unit and measurement laptop (see recommended articles below) to obtain a complete SkySpec measurement system. HIGH GRADE DETECTORS: In contrast to [SKY-SBOX-25-RGD], the [SKY-SBOX-25-HGD]'s spectrometers feature a highly sensitive and vertically extended back thinned CCD detectors, more than doubling the photon yield compared to regular CMOS detectors. For measurements of UV absorbing target gases like O3, SO2, HONO, HCHO or BrO, we therefore recommend the [SKY-SBOX-25-HGD] instrument. If the focus is on Vis absorbing target gases like NO2, H2O, IO or CHOCHO, consider to use the cost-efficient [SKY-SBOX-25-RGD] model.	[SKY-SOFT-IMG] or [SKY-SOFT-SBOX], depending on the choice of the telescope unit [SKY-TELE-*] • External power supply [ACC-PWR-BA]. RECOMMENDED ARTICLES: Telescope unit [SKY-TELE-*] • Spectrometer non-linearity correction [SERV-NONLIN] • Measurement computer [PC-*] • Evaluation software [SKY-EVAL-*] • Optical fibre extensions [SKY-CON-FE*] • Services [SKY-SERV-BINSTL] & [SKY-SERV-MT-1D/2D]	100	• •



					Subtypes
Item#	Description	Comments	Related articles	lmage	1D 2D Comp Mini
SKY-SBOX-2S-RGD	SKYSPEC SPECTROMETER-UNIT-v.260 - TWO SPECTROMETERS (UV/VIS) - REGULAR GRADE DETECTORS > Passive UV/VIS remote sensing • Trace gas profiling from ground level to 2 km • Height resolution up to 100 m • Detectable gases: NO2, HCHO, SO2, O4, 03, HZO, HONO, Glyoxal, BrO and IO > Spectrometers: Regular grade CMOS detectors • Actively temperature stabilised (heating & cooling) • Color filters and bench design minimize straylight • High spectral sampling: > 6 px/FWHM • Dark spectra, wavelength calibration (-0.05 m accuracy) and detector non-linearity correction included > UV-Range: Spectral range: 300 • 408 nm • Spectral resolution: < 0.5 nm > VIS-Range: Spectral range: 300 • 553 nm • Spectral resolution: < 0.6 nm Polycarbonate IP64 housing • Box dimensions: 40 x 30 x 13.2 cm³ • Weight • 8 kg > Connection for 12 V power supply > Communication: USB 2.0 • Included: Pre-installed and adjusted 10 m (extendable) fused silica optical fibre for simple optical connection to SkySpec telescope units • 2 m USB cable with IP67 connector	GENERAL: Two actively temperature stabilised spectrometers (for UV & VIS spectral range) in a compact, rugged and mobile enclosure. Typical detectable gases: NO2, SO2, O4, HCHO, BrO, H2O, HONO, IO and CHOCHO. Custom wavelength configurations on request. Combine with telescope unit and measurement laptop (see recommended below) to obtain a complete SkySpec measurement system. REGULAR GRADE DETECTORS: In contrast to [SKY-SBOX-25-RGD], the [SKY-SBOX-25-HGD]s spectrometers feature a highly sensitive and vertically extended back thinned CCD detectors, more than doubling the photon yield compared to regular CMOS detectors. For measurements of UV absorbing target gases like O3, SO2, HONO, HCHO or BrO, we therefore recommend the [SKY-SBOX-25-HGD] instrument. If the focus is on Vis absorbing target gases like NO2, H2O, IO or CHOCHO, consider to use the cost-efficient [SKY-SBOX-25-RGD] model.	[SKY-SOFT-IMG] or [SKY-SOFT-SBOX], depending on the choice of the telescope unit [SKY-TELE-*] • External power supply [ACC-PWR-8A] RECOMMENDED ARTICLES: Telescope unit [SKY-TELE-*] • Measurement computer [PC-*] • Evaluation software [SKY-EVAL-*] • Optical fibre extensions [SKY-CON-FE*] • Services [SKY-SERV-INSTL] & [SKY-SERV-HT-10/2D]	358	• •
SKY-SBOX-15-HGD	SKYSPEC SPECTROMETER-UNIT-v.260 - SINGLE UV-VIS-SPECTROMETER - HIGH GRADE DETECTOR > Passive UV/VIS remote sensing * Trace gas profiling from ground level to 2 km * Height resolution up to 100 m * Detectable gases: NO2, HCHO, SO2, O4, O3, H2O, HONO, Glyoxal, BrO and IO > Spectrometer: High grade back thinned CCD detector * Actively temperature stabilised (heating & cooling) * Color filters and bench design minimize straylight * High spectral sampling: > 6 px/FWHM * Dark spectra, wavelength calibration (-0.05 mm accuracy) and detector non-linearity correction included * Spectral range: 300 - 460 nm * Spectral resolution: < 0.7 nm > Polycarbonate IP64 housing * Box dimensions: 40 x 30 x 13.2 cm³ * Weight -8 kg > Connection for 12 V power supply > Communication: USB 2.0 > Included: Pre-installed and adjusted 10 m (extendable) fused silica optical fibre for simple optical connection to SkySpec telescope units * 2 m USB cable with IP67 connector	GENERAL: One actively temperature stabilised spectrometer (covering the UV+VIS spectral range), rugged and mobile enclosure. Typical detectable gases: NO2, SO2, O4, HCHO, BrO, H2O, HONO, IO and CHOCHO. Custom wavelength configurations on request. Combine with telescope unit and measurement laptop (see recommended articles below) to obtain a complete SkySpec measurement system. HIGH GRADE DETECTOR: In contrast to [SKY-SBOX-15-RGD], the [SKY-SBOX-15-HGD]s spectrometer features a highly sensitive and vertically extended back thinned CCD detector, more than doubling the photon yield compared to a regular CMOS detector. For measurements of UV absorbing target gases like O3, SQJ, HONO, HCHO or BrO, we therefore recommend the [SKY-SBOX-15-HGD] instrument. If the focus is on Vis absorbing target gases like NO2, H2O, IO or CHOCHO, consider to use the cost-efficient [SKY-SBOX-15-RGD] model.	[SKY-SOFT-IMG] or [SKY-SOFT-SBOX], depending on the choice of the telescope unit [SKY-TELE-*] • External power supply [ACC-PWR-8A] RECOMMENDED ARTICLES: Telescope unit [SKY-TELE-*] • Measurement computer [PC-*] • Evaluation software [SKY-EVAL-*] • Optical fibre extensions [SKY-CON-FE*] • Services [SKY-SERV-INSTL] & [SKY-SERV-MT-1D/2D]	258	• •
SKY-SBOX-15-RGD	SKYSPEC SPECTROMETER-UNIT-v.260 - SINGLE UV-VIS-SPECTROMETER - REGULAR GRADE DETECTOR > Passive UV/VIS remote sensing • Trace gas profiling from ground level to 2 km • Height resolution up to 100 m • Detectable gases: NO2, HCHO, SO2, O4, O3, H2O, HONO, Glyoxal, BrO and IO > Spectrometer: Regular grade CMOS detector • Actively temperature stabilised (heating & cooling) • Color filters and bench design minimize straylight • High spectral sampling: > 6 px/FWHM • Dark spectra, wavelength calibration (-0.05 nm accuracy) and detector non-linearity correction included • Spectral range: 300 - 460 nm • Spectral resolution: < 0.7 nm > Polycarbonate IP64 housing • Box dimensions: 40 x 30 x 13.2 cm³ • Weight -8 kg > Connection for 12 V power supply > Communication: USB 2.0 > Included: Pre-installed and adjusted 10 m (extendable) fused silica optical fibre for simple optical connection to SkySpec telescope units • 2 m USB cable with IP67 connector	GENERAL: One actively temperature stabilised spectrometer (covering the UV+VIS spectral range) in a compact, rugged and mobile enclosure. Typical detectable gases: NOZ, SOZ, O4, HCHO, BrO, H2O, HONO, IO and CHOCHO. Custom wavelength configurations on request. Combine with telescope unit and measurement laptop (see recommended articles below) to obtain a complete SkySpec measurement system. REGULAR GRADE DETECTOR: In contrast to [SKY-SBOX-1S-RGD], the [SKY-SBOX-1S-HGD]'s spectrometer features a highly sensitive and vertically extended back thinned CCD detector, more than doubling the photon yield compared to a regular CMOS detector. For measurements of UV absorbing target gases like 03, SOZ, HONO, HCHO or BrO, we therefore recommend the [SKY-SBOX-1S-HGD] instrument. If the focus is on Vis absorbing target gases like NOZ, HZO, IO or CHOCHO, consider to use the cost-efficient [SKY-SBOX-1S-RGD] model.	[SKY-SOFT-IMG] or [SKY-SOFT-SBOX], depending on the choice of the telescope unit [SKY-TELE-*] • External power supply [ACC-PWR-8A] RECOMMENDED ARTICLES: Telescope unit SKY-TELE-* • Measurement computer [PC-*] • Evaluation software [SKY-EVAL-*]	3.8	
SKY-SBOX-MINI-HGD	SKYSPEC SPECTROMETER-UNIT-v.250 - REDUCED SIZE - SINGLE UV-VIS-SPECTROMETER - HIGH GRADE DETECTOR > Small scale spectrometer unit for integration in custom measurement systems for various spectroscopic applications > Spectrometers: High grade back thinned CCD detector • Actively temperature stabilised (heating & cooling) • Color filters and bench design minimize straylight • High spectral sampling: > 6 px/FWHM • Dark spectra, wavelength calibration (-0.05 nm accuracy) and detector non-linearity correction included • Spectral range: 300 • 460 nm • Spectral resolution: • 0.7 nm > Optical connection via mono-fiber with SMA connector • Internal cross-sectional-converter (circular to slitted shape) maximises light throughput > Polycarbonate IP64 housing • Box dimensions: 30 x 20 x 13.2 cm³ • Weight -5 kg > Connection for 12 V power supply > Communication: USB 2.0 > Included: 2 m USB cable with IP67 connector	GENERAL: One actively temperature stabilised spectrometer (covering the UV+VIS spectral range), rugged and mobile enclosure. Custom spectrometer and fiber configurations on request. Not intended for use with SkySpec standard telescopes! HIGH GRADE DETECTOR: In contrast to [SKY-SBOX-MINI-RGD], the [SKY-SBOX-MINI-HGD]'s spectrometer features a highly sensitive and vertically extended back thinned CCD detector, more than doubling the photon yield compared to a regular CMOS detector.			• •



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Item#	Description	Comments	Related articles	lmage	1D 2D	Comp
SKY-SBOX-MINI-RGD	SKYSPEC SPECTROMETER-UNIT-v.250 - REDUCED SIZE - SINGLE UV-VIS-SPECTROMETER - REGULAR GRADE DETECTOR > Small scale spectrometer unit for integration in custom measurement systems for various spectroscopic applications > Spectrometers: regular grade CMOS detector • Actively temperature stabilised (heating & cooling) • Color filters and bench design minimize straylight • High spectral sampling: > 6 px/FWHM • Dark spectra, wavelength calibration (-0.05 nm accuracy) and detector non-linearity correction included • Spectral range: 300 • 460 nm • Spectral resolution: < 0.7 nm > Optical connection via mono-fiber with SMA connector • Internal cross-sectional-converter (circular to slitted shape) maximises light throughput > Polycarbonate IP64 housing • Box dimensions: 30 x 20 x 13.2 cm³ • Weight -5 kg > Connection for 12 V power supply > Communication: USB 2.0 > Included: 2 m USB cable with IP67 connector	GENERAL: One actively temperature stabilised spectrometer (covering the UV+VIS spectral range), rugged and mobile enclosure. Custom spectrometer and fiber configurations on request. Not intended for use with SkySpec standard telescopes! REGULAR GRADE DETECTOR: In contrast to [SKY-SBOX-MINI-RGD], the [SKY-SBOX-MINI-HGD]'s spectrometer features a highly sensitive and vertically extended back thinned CCD detector, more than doubling the photon yield compared to a regular CMOS detector.	External power supply [ACC-PWR-8A] RECOMMENDED ARTICLES: Service [SKY-SERV-INSTL]			
1D/2D series -	- Telescope systems					
SKY-TELE-1D	SKYSPEC TELESCOPE-UNIT-v.260 - 1D-MOTORISED > Scanner unit for passive UV/VIS remote sensing. > One motorised axis: Elevation angle (-10° to 190°) > Weatherproof design • Quartz glass cover • No outside moving parts > Small vertical field of view (< 0.3°) for MAX-DOAS applications > Tilt sensor based real-time elevation angle correction (0.2° pointing accuracy) > Angular elevation accuracy: < 0.2° (10) > Data communication: serial R5232 • USB 2.0 > Connection for 12 V power > Polycarbonate IP64 housing • Dust and weatherproof (incl. weatherproof connectors) • Box dimensions: 20 x 20 x 13.2 • Optics tube length: 12.5 cm • Weight -4 kg > Included: 10 m cables (length extendable) for easy electric & data connection to SkySpec Spectrometer boxes	GENERAL: Small field of view, motorised telescope system to gather skylight at arbitrary viewing elevations. Stand-alone use (without spectrometer system) with third party spectrometers possible. Combine with spectrometer unit and measurement computer (see recommended articles below) to obtain complete SkySpec measurement system. 1D-MOTORISED: The telescope's viewing elevation axis is motorised (-10° to 190°). Azimuthal viewing direction is fixed, depending on the instrument mounting direction. Direct-sun observations or trace gas imaging applications require 2D-motorisation [SKY-TELE-2D]	REQUIRED ARTICLES: Stand-alone use requires: Power Supply [ACC-PWR-8A] • Software [SKY-SOFT-TELE] • Stand-alone version supplied with serial to USB adapter RECOMMENDED ARTICLES: Spectrometer unit [SKY-SBOX-*] • Measurement computer [PC-*] • Cameras [SKY-CON-TCAM0/180] • Shutter add-on [SKY-CON-TSHUT] or [SKY-CON-THGSHUT] • Tripod [SKY-ACC-TRIPOD] • Cable extensions [SKY-CON-FE*] • Services [SKY-SERV-INSTL] & [SKY-SERV-INT-1D] • for separate telescope operation [SKY-ACC-RS232]		•	
SKY-TELE-2D	SKYSPEC TELESCOPE-UNIT-v.260 - 2D-MOTORISED > Scanner unit for passive UV/VIS remote sensing. > Two motorised axes: Azimuth (-5 ° to 185') and elevation angle (-10° to 190°) to cover full sky > Weatherproof design • quartz glass cover > Small vertical field of view (< 0.3") for MAX-DOAS applications > Tilt sensor based real-time elevation angle correction (0.2" pointing accuracy) > Angular elevation accuracy: < 0.2" (10) > Data communication: serial RS232 • USB 2.0 > Connection for 12 V power > Polycarbonate IP64 housing • Dust and weatherproof (incl. weatherproof connectors) • Housing dimensions: 20 x 20 x 20 x 29 cm³ • Optics tube length: 12.5 cm • Weight -7 kg > Included: 10 m cables (length extendable) for easy electric & data connection to SkySpec Spectrometer boxes	GENERAL: Small field of view, motorised telescope system to gather skylight at arbitrary viewing directions. Stand-alone use (without spectrometer system) with third party spectrometers possible. Combine with spectrometer unit and measurement computer (see recommended articles below) to obtain complete SkySpec measurement system. 2D-MOTORISED: The telescope's viewing elevation and azimuthal axis are both motorised (full hemisphere coverage), enabling direct-sun observations and trace gas imaging applications.	REQUIRED ARTICLES: Stand-alone use requires: Power Supply [ACC-PWR-8A] • Software [SKY-SOFT-TELE] RECOMMENDED ARTICLES: Spectrometer unit [SKY-SBOX-*] • Measurement computer [PC-*] • Cameras [SKY-CON-TCAM0/180] • Diffusor add-on [SKY-CON-TDIFF] or for direct-sun observations [SKY-CON-THGDIFF] • Tripod [SKY-ACC-TRIPOD] • Cable extensions [SKY-CON-FE*] • Services [SKY-SERV-INSTL] & [SKY-SERV-MT-2D] • for separate telescope operation [SKY-ACC-RS232]			

Product overview of Airyx GmbH



SkySpec (SS)

Subtypes Item# Description Comments Related articles Image 2D OPTIONAL INSTRUMENT CONFIGURATIONS (TO BE ORDERED WITH THE INSTRUMENT) SKYSPEC SPECTROMETER TELESCOPE CONNECTION EXTENSION TO 15 m Only applicable when ordering a full SkySpec measurement system All connections (optical fibre, data and power cables, by default 10 m) between telescope and consisting of spectrometer box [SKY-SBOX-*] and telescope unit [SKY-TELE-*] • For applications requiring large distances between the indoor spectrometerbox are replaced by 15m long versions. spectrometer unit and the outdoor 1D/2D telescope • Extension applied to electrical connections as well as optical fibre • Optical fibre is fixed on spectrometer side, cables are fixed on telescope side, extension is therefore applied at Airyx GmbH before shipping • Default connections (10 m) will be replaced by the extended versions • IP68 connectors SKY-CON-FCE20 SKYSPEC SPECTROMETER TELESCOPE CONNECTION EXTENSION TO 20 m Only applicable when ordering a full SkySpec measurement system All connections (optical fibre, data and power cables, by default 10 m) between telescope and consisting of spectrometer box [SKY-SBOX-*] and telescope unit [SKY-TELEspectrometerbox are replaced by 20m long versions. *] • For applications requiring large distances between the indoor spectrometer unit and the outdoor 1D/2D telescope • Extension applied to electrical connections as well as optical fibre • Optical fibre is fixed on spectrometer side, cables are fixed on telescope side, extension is therefore applied at Airyx GmbH before shipping • Default connections (10 m) will be replaced by the extended versions • IP68 connectors SKY-CON-FE15 OPTICAL FIBRE EXTENSION FOR SKYSPEC SPECTROMETER SYSTEMS TO 15 m Only of relevance for stand-alone use of SkySpec spectrometer systems The pre-installed and adjusted 10 m optical fibre on the spectrometer system will be replaced by a 15 m [SKY-SBOX-*] (without dedicated SkySpec telescope system) • For long version applications requiring large distances between the light providing system and the analyser . On the spectrometer side, the optical fibre is preinstalled and adjusted, extensions are therefore applied at Airyx GmbH before shipping . Default optical fibre (10 m) will be replaced by the extended version SKY-CON-FE20 OPTICAL FIBRE EXTENSION FOR SKYSPEC SPECTROMETER SYSTEMS TO 20 m. Only of relevance for stand-alone use of SkySpec spectrometer systems The pre-installed and adjusted 10 m optical fibre on the spectrometer system will be replaced by a 20 m [SKY-SBOX-*] (without dedicated SkySpec telescope system) • For applications requiring large distances between the light providing system and the analyser • On the spectrometer side, the optical fibre is preinstalled and adjusted, extensions are therefore applied at Airyx GmbH before shipping • Default optical fibre (10 m) will be replaced by the extended version SKY-CON-CE15 CABLE EXTENSION FOR SKYSPEC TELESCOPE SYSTEMS TO 15 m Only of relevance for stand-alone use of SkySpec telescope units [SKY-TELE-The preinstalled 10 m data and power cables on the telescope system will be replaced by 15 m long *] (without dedicated spectrometer unit) • For applications requiring large distances between telescope and light analyser • On the telescope side, cables are fixed, extensions are therefore applied at Airyx GmbH before shipping • Default connections (10 m) will be replaced by the extended SKY-CON-CE20 CABLE EXTENSION FOR SKYSPEC TELESCOPE SYSTEMS TO 20 m Only of relevance for stand-alone use of SkySpec telescope units ISKY-TELE The preinstalled 10 m data and power cables on the telescope system will be replaced by 20 m long *] (without dedicated spectrometer unit) • For applications requiring large distances between telescope and light analyser • On the telescope side, cables are fixed, extensions are therefore applied at Airyx GmbH before shipping • Default connections (10 m) will be replaced by the extended versions SKYSPEC CAMERA FOR 1D/2D SYSTEMS - POINTING FORWARD SKY-CON-TCAMO Camera with wide field of view (default is 130°x 90° (WxH), customisable Wide FOV camera optimised for weather monitoring. Monitors the sky hemisphere in front of the on request) . Combine with a second camera SKY-CON-TCAM180 for all-sky instrument monitoring SKY-CON-TCAM180 SKYSPEC CAMERA FOR 1D/2D SYSTEMS - POINTING BACKWARD Camera with wide field of view (default is 130°x 90° (WxH), customisable Wide FOV camera optimised for weather monitoring. Monitors the sky hemisphere in the back of the on request) • This article complements SKY-CON-TCAMO to enhance the instrument total field of view of your telescope unit



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m#	Description	Comments	Related articles	Image	1D 2D Comp
-CON-TCAMC	SKYSPEC CAMERA FOR COMPACT/MINI SYSTEMS Wide FOV camera optimised for all-sky weather monitoring	Camera with wide field of view (default is 130° x 90° (WxH), customisable on request) • Camera gets integrated into the telescope at Airyx GmbH • In SkySpec Mini/Compact instruments, only one camera can be installed.			
r-con-tshut	SKYSPEC TELESCOPE AUTOMATIC SHUTTER Enables automatic in-field dark spectra acquisition for spectrometer performance monitoring and corrections.	Servo driven shutter system, which can be integrated into SkySpec 1D and 2D telescope units. Enables: automatic dark spectra acquisition by blocking the light between telescope lense and optical fibre entrance.			
Y-CON-THGSHUT	SKYSPEC TELESCOPE AUTOMATIC SHUTTER WITH MERCURY CALIBRATION LAMP > Enables automatic in-field dark- and mercury emission line spectra acquisition for spectrometer performance monitoring and corrections > Wavelength calibration / check with mercury emisison lines	Combined mercury (Hg) lamp and servo driven shutter system, which can be integrated into SkySpec 1D and 2D telescope units. Enables: Automatic dark spectra acquisition by blocking the light between telescope lense and optical fibre entrance automatic • Acquisition of mercury emission line spectra by reflecting lamp light into the optical fibre; useful for long term monitoring and drift correction of the spectrometer's wavelength calibration.			
/-CON-TDIFF	SKYSPEC TELESCOPE AUTOMATIC DIFFUSOR > Enables direct-sun measurements (pointing directly into the Sun) > Automatic in-field dark spectra acquisition for spectrometer performance monitoring and corrections.	Servo driven diffusor system (also useable as shutter), which can be integrated into SkySpec 2D telescope units. Enables: Direct-sun measurements for retrieval of trace gas total atmospheric columns. Diffusor ensures high spectral quality by moderating the brightness and homogenising the spectrometer illumination when pointing directly into the sun • Automatic dark spectra acquisition: Diffusor/shutter blocks the light between telescope lense and optical fibre entrance.			
Y-CON-THGDIFF	SKYSPEC TELESCOPE AUTOMATIC DIFFUSOR WITH MERCURY CALIBRATION LAMP > Allow direct-sun measurements (pointing directly into the sun) > Automatic in-field dark- and mercury emission line spectra acquisition for spectrometer performance monitoring and corrections > Wavelength calibration / check with mercury emisison lines	Combined Mercury (Hg) lamp and servo driven diffusor system (also useable as shutter), which can be integrated into SkySpec 2D telescope units. Enables: Diffusor ensures high spectral quality by moderating the brightness and homogenising the spectrometer illumination when pointing directly into the sun • Automatic dark spectra acquisition: diffusor/shutter blocks the light between telescope lense and optical fibre entrance • Automatic mercury line spectrum acquisition: diffusor reflects lamp light into the optical fibre; useful for long term monitoring and drift correction of the instrument's wavelength calibration.			•
/-ACC-RS232	SKYSPEC TELESCOPE RS232 to USB adapter > Adaptercable for SkySpec telescope > RS232 to USB converter fur USB control	For seperate operation of telescope SkySpec-1D or SkySpec-2D an adapter for the connector incl. a RS232 to USB converter is required. Than the telescope can be operated via a USB port of a PC.		IMAGE COMING SOON!	

Product overview of Airyx GmbH



SkySpec (SS) Subtypes

ltem#	Description	Comments	Related articles	Image	1D 2D	Comp	Mini
SOFTWARE							
	SkySpec instrument control and data acquisition						
SKY-SOFT-STD	SKYSPEC INSTRUMENT CONTROL AND DATA ACQUISITION SOFTWARE CONFIGURATION - MAX-DOAS STANDARD APPLICATIONS - FOR COMPACT.*], Mini [SKY-MINI-*], 1D [SKY-SBOX.* + SKY-TELE-1D] and 2D [SKY-SBOX.* + SKY-TELE-2D] systems.	MS-DOAS software, configured for instrument control and data acquisition • Control of all instrument components (motors, cameras, spectrometers, temperature control, opto-mechanics) • Preconfigured and adaptable measurement routines for standard MAX-DOAS applications (elevation scans, zenith observations, direct-sun measurements, horizon scans, calibration spectrum acquisition) • Preconfigured and adaptable measurement routines for direct-sun measurement configuration • Enables implementation of own measurement routines • Logging of crucial telescope parameters (temperatures, pressure, humidity, other sensor and diagnostic parameters)	and SkySpec 1D systems [SKY-SBOX-* + SKY-TELE-1D] require this software. It must be ordered with the instrument. > SkySpec 2D systems [SKY-SBOX-* + SKY-TELE-2D] require either this software, or [SKY-SOFT-IMG].	See agreement to the first to the second sec	•	•	•
SKY-SOFT-IMG	SKYSPEC INSTRUMENT CONTROL AND DATA ACQUISITION SOFTWARE - MAX-DOAS IMAGING APPLICATIONS > For SkySpec 2D systems [SKY-SBOX-* + SKY-TELE-2D] only	MS-DOAS software, configured for instrument control and data acquisition • Control of all instrument components (motors, cameras, spectrometers, temperature control, opto-mechanics) • Preconfigured and adaptable measurement routines for MAX-DOAS imaging applications • Enables implementation of own measurement routines • Logging of crucial telescope parameters (temperatures, pressure, humidity, other sensor and diagnostic parameters) MAX-DOAS IMAGING: Software is optimised to perform fast 2D scans on a user-defined angular grid • In combination with the corresponding evaluation software [SKY-EVAL-IMG], pollution images are created automatically: They consists of a panorama webcam image overlayed with the observed trace gas dSCDs in the respective directions	> Only for SkySpec 2D systems [SKY-SBOX-* + SKY-TELE-2D], which requires either this software, or [SKY-SOFT-STD]. > Only useful if combined with [SKY-EVAL-IMG]	THE REPORT OF THE PARTY OF THE	•		
SKY-SOFT-UPDATE	UPDATE OF SKYSPEC INSTRUMENT CONTROL AND DATA ACQUISITION SOFTWARE	To latest version of your standard [SKY-SOFT-STD] or imaging [SKY-SOFT-IMG] software configuration.		# Company of the Comp	•		•
SKY-SOFT-TELE	SKYSPEC TELESCOPE CONTROL SOFTWARE > For stand-alone use of SkySpec telescope units [SKY-TELE-*] without dedicated SkySpec spectrometer unit.	MS-DOAS software, configured for stand alone telescope control (without spectrometer unit) • Control of telescope unit and cameras (motors, cameras, temperature control, opto-mechanics) • Logging of crucial telescope parameters (temperatures, pressure, humidity, other sensor and diagnostic parameters) • Enables implementation of own measurement routines	> Only suitable and required for stand-alone use of SkySpec telescope systems [SKY-TELE-*] without dedicated SkySpec spectrometer unit.		•		
SKY-SOFT-SBOX	SKYSPEC SPECTROMETER CONTROL SOFTWARE > For stand-alone use of SkySpec spectrometer units [SKY-SBOX-*] without dedicated SkySpec telescope unit.	Minimal MS-DOAS software package for spectrometer-system control. • Control of spectrometer components (spectrometers, temperature control) - Logging of crucial telescope parameters (temperatures, pressure, humidity, other sensor and diagnostic parameters) • Enables implementation of own measurement routines	> Only suitable and required for stand-alone use of SkySpec spectrometer units [SKY-TELE-*] without dedicated SkySpec telescope unit.	And the state of t			



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Item#	Description	Comments	Related articles	Image	1D 2D Comp
Optional soft	tware extensions				
SKY-EVAL-V3-1S	SKYSPEC EVALUATION SOFTWARE PACKAGE V3 - SINGLE SPECTROMETER > Automatic post- and real- time processing of SkySpec spectral data > Spectral analysis and post-processing > Provides for all measured trace gases > DSCD (Differential Slant Column Densities) > VCD (Vertical Column Densities) > NSC (Near Surface Concentration) > Real-time result visualization in an interactive web browser interface	Evaluation package gets optimised for your specific instrument • If ordered with a SkySpec Compact or a measurement computer [PC-*], the package will be installed and configured on the computer • The number of measurable trace gases depends on the spectral range of the selected instrument.			• • •
SKY-EVAL-V3-2S	SKYSPEC EVALUATION SOFTWARE PACKAGE V3 - TWO SPECTROMETERS > Automatic post- and real- time processing of SkySpec spectral data > Spectral analysis and post-processing > Provides for all measured trace gases > DSCD (Differential Slant Column Densities) > VCD (Vertical Column Densities) > NSC (Near Surface Concentration) > Real-time result visualization in an interactive web browser interface	Evaluation package gets optimised for your specific instrument. • If ordered with a SkySpec measurement computer [PC-1], the package will be installed and configured on the computer • The number of measurable trace gases depends on the spectral range of the selected instrument.			•
SKY-EVAL-UPDATE	UPDATE OF SKYSPEC EVALUATION SOFTWARE from Version [SKY-EVAL-V2] (before 2023) to [SKY-EVAL-V3] (2024)			The state of the s	• • •
SKY-EVAL-IMG	SKYSPEC EVALUATION SOFTWARE PACKAGE FOR IMAGING APPLICATIONS > Automatic post- and real- time processing of SkySpec spectral data > Spectral analysis and post-processing > Provides for all measured trace gases > 2D image overlays of webcam panorama and measured DSCD's > DSCD (Differential Slant Column Densities) > VCD (Vertical Column Densities) > NSC (Near Surface Concentration) > Real-time result visualization	Evaluation package gets optimised for your specific instrument • If ordered with a measurement computer [PC-*], the package will be installed and configured on the computer • Requires SkySpec 2D instrument • Requires measurement software optimised for MAX-DOAS imaging applications (SKY-SOFT-IMG) • Characterisation and angular calibration of the system's camera against the telescope optics is included			
MEASUREME	NT COMPUTERS				_
PC-DE	MEASUREMENT COMPUTER - DESKTOP PC > Windows 10 or 11 Pro installed and optimised for Airyx instrument measurement applications > Installation and configuration of measurement and (if included) evaluation software packages. > Ready for measurements > Robust Dell tower PC with min 8GB RAM, min 512GB Harddrive and min. Intel i5 Processor > Delivered with keyboard, but without monitor	If a measurement computer is ordered with a Airyx instrument, the required measurement software (e.g. SKY-SOFT-*) will be installed and preconfigured on the computer at Airyx GmbH. Same applies if software extensions (e.g. SkySpec evaluation package SKY-EVAL-*) are ordered • The system will be pre-configured as a plug-and-play setup.			
PC-NB	MEASUREMENT COMPUTER - NOTEBOOK > Windows 11 installed and optimised for Airyx instrument measurement applications > Installation and configuration of measurement and (if included) evaluation software packages. > Ready for measurements > Robust Dell Notebook with min. 8GB RAM, SSD Harddrive	If a measurement computer is ordered with a Airyx instrument, the required measurement software (e.g. SKY-SOFT-*) will be installed and preconfigured on the computer at Airyx GmbH. Same applies if software extensions (e.g. SkySpec evaluation package SKY-EVAL-*) are ordered • The system will be pre-configured as a plug-and-play setup.			
PC-NBHP	MEASUREMENT COMPUTER - NOTEBOOK - HIGH PERFORMANCE > Windows 11 Pro installed and optimised for Airyx instrument measurement applications > Installation and configuration of measurement and (if included) evaluation software packages. > Ready for measurements > Robust Dell Notebook with min. 8GB RAM, min. 512GB SSD Harddrive and min. Intel i5 Processor	If a measurement computer is ordered with an Airyx instrument, the required measurement software (e.g. SKY-SOFT-*) will be installed and preconfigured on the computer at Airyx GmbH. Same applies if a software extension (e.g. SKY-EVAL-*) is ordered * the system will be pre-configured as a plug-and-play setup * In the "HIGH PERFORMANCE" configuration a fast (i7 processor with 16GB RAM will be used); recommended for Open Path systems and SkySpec applications with calculation intensive data processing (going beyond the Airyx standard software packages)			



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Item#	Description	Comments	Related articles	Image	1D 2D Comp
EXTENSIONS	S AND ACCESSORIES	<u> </u>			
SKY-ACC-TRIPOD	SKYSPEC TRIPOD AND ADAPTER > Stable tripod with adapter for simple mounting of SkySpec instruments/telescopes > Tripod height adjustable: 0,91 to 169 cm • Leg distance: 80 to 135 cm > weight: 3,4kg • transport length: 106cm > Includes tripod spread stop	Stable tripod for simple SkySpec instrument/telescope deployment in the field • Adapter plate is included (specify the instrument type to obtain the correct plate).			
ACC-WIFIUSB	WIFI USB MODULE (Dongle)	External USB Wi-Fi module, externally connected to all ICAD variants or SKY-COMPACT-XXX instruments • Only this specific WIFI dongle is suitable for the Airyx instruments • For Wi-Fi data communication between instrument and any Wi-Fi device (e.g. [PC-*] or own device).		Scenes (1))	
ACC-PWR-8A	EXTERNAL POWER SUPPLY - 100 TO 240 V - 12 V / 8.5 A IP68 connector configured for Airyx instruments.	Power supply for Airyx instruments with IP68 connector configured for Airyx instruments • Input: 100 V to 240 V • Output: regulated 12 V / 8.5 A		8	• • •
ACC-PWR-7A-IP	EXTERNAL POWER SUPPLY - 100 TO 240 V - 12 V / 7.5 A IP67 power supply and connector configured for Airyx instruments.	Power supply for Airyx instruments in IP67 housing with IP68 connector configured for Airyx instruments • Input: 100 V to 240 V • Output: regulated 12 V / 7.5 A			
ACC-PWR-15A-IP	EXTERNAL POWER SUPPLY - 100 TO 240 V - 12 V / 15 A IP67 power supply and connector configured for Airyx instruments.	Power supply for Airyx instruments in IP67 housing with IP68 connector configured for Airyx instruments • Input: 100 V to 240 V • Output: regulated 12 V / 15 A			
ACC-EXT-HG	HANDHELD HG (MERCURY) CALIBRATION-LAMP > with SMA optical fibre connector > Battery powered (4 x AA cells)	For manual acquisition of mercury emission line spectra with Airyx spectrometer systems • Useful for spectrometer wavelength calibration.		E T	
ACC-USB2	USB-B TO USB-A CABLE IP68 - 2 m	2 m IP68 connector on the instrument side. Only with these Usb cables the Usb connection on the IP65 Airyx instrument boxes are air and water tight. This is important to avoid humidity in the instrument.			
ACC-USB3	USB-B TO USB-A CABLE IP68 - 3 m	3 m IP68 connector on the instrument side. Only with these Usb cables the Usb connection on the IP65 Airyx instrument boxes are air and water tight. This is important to avoid humidity in the instrument.			• • •
ACC-USB5	USB-B TO USB-A CABLE IP68 - 5 m	5 m IP68 connector on the instrument side. Only with these Usb cables the Usb connection on the IP65 Airyx instrument boxes are air and water tight. This is important to avoid humidity in the instrument.			• • •
ACC-PWR3	12 V POWER CABLE EXTENSION IP68 - 3 m	3 m extension 12 V connection between power supply and instrument • PUR outdoor cable with IP68 connectors on both sides • Can also be used to connect LiPo battery packs [ACC-BATPACK].		0	



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ltem#	Description	Comments	Related articles	Image	1D 2D Comp
ACC-PWR5	12 V POWER CABLE EXTENSION IP68 - 5 m	5 m extension 12 V connection between power supply and instrument • PUR outdoor cable with IP68 connectors on both sides • Can also be used to connect LiPo battery packs [ACC-BATPACK].		O)	• • •
ACC-PWRX	12 V POWER CABLE EXTENSION IP68 - CUSTOM LENGTH Price: 40 € + 6 €/m (Example price for 10 m)	Custom length extension 12 V connection between power supply and instrument • PUR outdoor cable with IP68 connectors on both sides. Flexible length, 30€ + 5€/M • Can also be used to connect LiPo battery packs [ACC-BATPACK].		0	
ACC-PWR1.5BE	12 V POWER CABLE IP68- 1.5 m - BLANK END suiteable for connection of 12V battery or 12V power supply	1.5 m connection between instrument and arbitrary 12 V power supply • PUR outdoor cable with IP68 connector on the instrument side • Other end with blank wires for flexible assembly.			
ACC-PWR3BE	12 V POWER CABLE IP68 - 3 M - BLANK END suiteable for connection of 12V battery or 12V power supply	3 M connection between instrument and arbitrary 12 V power supply • PUR outdoor cable with IP68 connector on the instrument side • Other end with blank wires for flexible assembly.			• • •
ACC-LAN2	LAN DATA CABLE IP68 - 2 M	2 m LAN cable to connect Airyx instruments to an external PC • PUR outdoor cable with IP68 connector on the instrument side. Not for ICAD instruments in the rack, there a normal LAN cable is included and sufficient.		Q	•
ACC-LANX	LAN DATA CABLE IP68 - CUSTOM LENGTH PUR Outdoor cable CAT 7 Price: 60€ + 7€/m (example price for 10 m)	Custom length LAN cable to connect Airyx instruments to an external PC \bullet PUR outdoor cable with IP68 connector on the instrument side \bullet Flexible length, $40 \in +7 \in /m$ Not for ICAD instruments in the rack, there a normal LAN cable is included and sufficient.		Q	
ACC-PWR3CAR	12V POWER CABLE FOR CAR CIGARETTE LIGHTER IP68 - 3 m, plus adaptercable to connect 12V buffer battery	3 m power cable for connection of Airyx instruments to a 12 V cigarette lighter in a car • connectable additional 12 V power source (battery) as 12V buffer to avoid power cuts when car power is off • PUR outdoor cable • IP68 connector on instrument side.		00	
ACC-BAT-50Ah	LIPO BATTERY 12 V/50.4 Ah IP67 - PELICASE Included: 5 A charger Included 1.5 m power cable for Airyx instrument connection (shipped separately) 3.37 kg Rugged Peli 1150 case (24 x 19 x 11 cm³) This item will be shipping from battery manufacturer directly This item is only available in Europe	Battery pack for instrument power supply in remote areas • IP67 • 3.37 kg • Allow -15 h of ICAD operation • 3 IP67 power connectors • Battery is directly shipped from the company producing the battery for Airyx • Batteries can only be sold within Europe due to transport restrictions.		0	



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:em#	Description	Comments	Related articles	lmage	1D 2D Comp
INTENANO	CE EQUIPMENT AND SPARE PARTS				
Y-MAINT-SET	SKYSPEC BASIC MAINTENANCE SET 1x silica desiccant 0.9 kg [SPARE-SILICA] • 1x optical glass cleaner suitable for UV optics • 1x basic cleaning tissue • 2x pack of special optical tissue			× 00	• •
(-SPARE-SET-1D	SKYSPEC 1D SPARE PART SET FOR MAINTENANCE AND BASIC REPAIR 1x power supply 12 V, 8.5 A with configured connector [ACC-PWR-8A] • 1x telescope calibration fit shutter servo motor (programmed) • 1x telescope prism stepper motor [SKY-SPARE-MOT1Db] • 1x external analog temperature sensor [SPARE-TSENS-EXA] • 1x Digital temperature and humidity sensor for spectrometer [SPARE-TSENS-SPD] • 1x internal USB-Hub with separate power supply 7 ports [SKY-SPARE-USBHUB] • 1x peltier cooler [SPARE-PELTIER-V2] • 1x optical telescope camera [SKY-SPARE-TCAM] • 1x fan 80 mm [SPARE-FAN80V3] • 2x fan filter 80 mm, washable [SPARE-FANFILT80] • 1x telescope Hg (mercury) calibration lamp [ACC-EXT-HG] • 1x telescope quartz glass tube [SKY-SPARE-TLUBE] • 1x silica desiccant 0.9 kg [SPARE-SILICA] • 1x telescope box lug for mounting [SKY-SPARE-TLUG] • 4x housing itd screws • 2x weatherproof fibre cable gland with sealing [SPARE-FGLAND] • 5x weatherproof power/data cable gland with sealing [SPARE-CGLAND]			X 00	
-SPARE-SET-2D	SKYSPEC 2D SPARE PART SET FOR MAINTENANCE AND BASIC REPAIR 1x power supply 12 V, 8 A with configured connector [ACC-PWR-8A] • 1x telescope calibration & direct sun servo motor (programmed) • 1x telescope prism stepper motor with gearing [SKY-SPARE-MOT1Db] • 1x telescope azimuth stepper motor • 1x external analog temperature sensor [SPARE-TSENS-EXA] • 1x Digital temperature and humidity sensor for spectrometer [SPARE-TSENS-SPD] • 1x internal USB-Hub with separate power supply 7 ports [SKY-SPARE-USBHUB] • 1x peltier cooler [SPARE-PLTIER-V2] • 1x optical telescope camera [SKY-SPARE-TCAM] • 1x fan 80 mm [SPARE-FAN80V3] • 2x fan filter 80 mm, washable [SPARE-FANFLT8B] • 1x silica desiccant 0.9 kg [SPARE-SILICA] • 1x telescope quartz glass tube [SKY-SPARE-TUBE] • 1x silica desiccant 0.9 kg [SPARE-SILICA] • 1x telescope box lug • 4x housing [id screws • 2x weatherproof fibre cable gland with sealing [SPARE-FGLAND] • 5x weatherproof power/data cable gland with sealing [SPARE-CGLAND]			X.00	
Y-SPARE-SET- MP	SKYSPEC COMPACT SPARE PART SET FOR MAINTENANCE AND BASIC REPAIR 1x power supply 12 V, 8 A with configured connector [ACC-PWR-8A] • 1x telescope prism stepper motor with gearing • 1x Digital temperature and humidity sensor for spectrometer [SPARE-TSENS-SPD] • 1x 3 m LAN cable with IP68 connector • 1x peltier cooler [SPARE-PELTIER-V2] • 1x optical telescope camera [SKY-SPARE-TCAM] • 1x fan 80 mm, IP64 [SPARE-FANFILT80] • 1x handheld Hg (mercury) calibration lamp [ACC-EXT-HG] • 1x telescope quartz glass tube [SKY-SPARE-TUBE] • 1x silica desiccant 0.9 kg [SPARE-SILICA] • 4x housing lid screws	A set of spare part components for SkySpec-COMP instruments. These components are not needed for normal operation. The parts are only for repairing if typical components break due to aging.		X.00	
Y-SPARE-SET-MINI	SKYSPEC MINI SPARE PART SET FOR MAINTENANCE AND BASIC REPAIR 1x power supply 12 V, 8 A with configured connector [ACC-PWR-8A] • 1x telescope prism stepper motor with gearing • 1x Digital temperature and humidity sensor for spectrometer [SPARE-TSENS-SPD] • 1x internal USB-Hub with separate power supply 7 ports [SKY-SPARE-USBHUB] • 1x 3 m USB cable with IP68 connector • 1x pettier cooler [SPARE-PELTIER-V2] • 1x optical telescope camera [SKY-SPARE-TCAM] • 1x fan 80 mm, IP64 [SPARE-FAN80V4] • 2x fan filter 80 mm, washable [SPARE-FANFILT80] • 1x handheld Hg (mercury) calibration lamp [ACC-EXT-HG] • 1x telescope quartz glass tube [SKY-SPARE-TUBE] • 1x silica desiccant 0.9 kg [SPARE-SILICA] • 4x housing lid screws	A set of spare part components for SkySpec-MINI instruments. These components are not needed for normal operation. The parts are only for repairing if typical components break due to aging.		X.00	
Y-SPARE-FIB10	SKYSPEC 10 m FIBRE BUNDLE FOR TWO SPECTROMETERS > UV quartz glass fibres > Stainless steel jacket > Air tight fibre ferrule > With fibre cross section converter	1x SkySpec spare fibre bundle, 10 m length, for two spectrometers (7 x 100µm UV fibres split into two branches of 6 and 1 fibres, respectively) • With water and airtight ferrule for Airyx SkySpec instruments (guarantees air tight fibre feedthrough into housing) • Bundle includes a fibre cross section converter for maximum light throughput		2	
Y-SPARE-FIB15	SKYSPEC 15 m FIBRE BUNDLE FOR TWO SPECTROMETERS > UV quartz glass fibres > Stainless steel jacket > Air tight fibre ferrule > With fibre cross section converter	1x SkySpec spare fibre bundle, 15 m length, for two spectrometers (7 x 100μm UV fibres split into two branches of 6 and 1 fibres, respectively) • With water and airtight ferrule for Airyx SkySpec instruments (guarantees air tight fibre feedthrough into housing) • Bundle includes a fibre cross section converter for maximum light throughput			



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Item#	Description	Comments	Related articles	Image	1D	2D	Comp	Willin
SKY-SPARE-FIB20	SKYSPEC 20 m FIBRE BUNDLE FOR TWO SPECTROMETERS > UV quartz glass fibres > Stainless steel jacket > Air tight fibre ferrule > With fibre cross section converter	1x SkySpec spare fibre bundle, 20 m length, for two spectrometers (7 x 100µm UV fibres split into two branches of 6 and 1 fibres, respectively) • With water and airtight ferrule for Airyx SkySpec instruments (guarantees air tight fibre feedthrough into housing) • Bundle includes a fibre cross section converter for maximum light throughput		2	•	•		
SKY-SPARE-TCAM	SKYSPEC SPARE TELESCOPE CAMERA > 90° vertical view	1x SkySpec spare telescope camera • Comes separate, without video grabber [SKY-SPARE-CAMCONV]. • Large vertical view of 90° to cover SkySpec scanning range from 0 to 90°. Without camera cable		TO S	•	•	•	
SKY-SPARE-HGL	SKYSPEC MERCURY WAVELENGTH CALIBRATION LIGHT BULP	1x SkySpec telescope Hg (mercury) wavelength calibration lamp light bulb • PenRay style • Comes without motorised reflector and Hg high voltage mercury lamp power supply.			•	•		
SKY-SPARE-TSERVO	SKYSPEC TELESCOPE SERVO MOTOR FOR SHUTTER & DIFFUSOR SYSTEMS	1x SkySpec spare servo motor for telescope with diffusor and shutter systems (preconfigured and programmed at Airyx GmbH). This only includes the sevo motor.			•	•		
SKY-SPARE-MOT1D	SKYSPEC TELESCOPE ELEVATION STEPPER MOTOR & GEARING	1x SkySpec telescope 1D elevation stepper motor with gearing. For high precision elevation positioning. Long lifetime of typ. 10 years.			•	•	•	•
SKY-SPARE-MOT1Db	SKYSPEC TELESCOPE ELEVATION STEPPER MOTOR	1x SkySpec telescope 1D elevation stepper motor without gearing. For high precision elevation positioning. Long lifetime of typ. 10 years.			•	•	•	•
SKY-SPARE-MOT2D	SKYSPEC TELESCOPE AZIMUTH STEPPER MOTOR & GEARING	1x SkySpec telescope 2D azimuth stepper motor with high performance gearing. For azimuth positioning.				•		
SKY-SPARE-TUBE	SKYSPEC TELESCOPE QUARTZ GLASS TUBE	1x SkySpec telescope quartz glass tube without inner parts.			•	•	•	
SKY-SPARE-PRISM	SKYSPEC TELESCOPE QUARTZ PRISM	1x SkySpec telescope quartz glass prism.			•	•	•	
SKY-SPARE-ESENS	SKYSPEC TELESCOPE ELEVATION SENSOR (CALIBRATED) > Elevation calibrated > Temperature corrected	1x SkySpec digital telescope elevation sensor. Calibrated and characterised at Airyx GmbH incl. Temperature correction. Comprehensive calibration is required to achieve an accuracy of 0.2°.			•	•	•	•
SKY-SPARE- CAMCONV	SKYSPEC CAMERA VIDEO GRABBER AND CONVERTER TO USB	1x video grabber and converter to USB for SkySpec telescope cameras • Comes without camera [SKY-SPARE-TCAM] • Each camera requires its own grabber to convert the video signal to a digital image transferred to the PC via USB.			•	•	•	•



					SkySpec (SS) Subtypes
Item#	Description	Comments	Related articles	Image	1D 2D Comp Mini
SKY-SPARE-USBHUB	INTERNAL USB-HUB WITH SEPARATE POWER SUPPLY > 7 USB ports > Industrial Grade, long life > separate power supply, activates with instrument controll > incl. spare USB cable				
SKY-SPARE-TLUG	SKYSPEC TELESCOPE BOX LUGS FOR MOUNTING	4x SkySpec mounting telescope box plastic lugs for each box corner. These lugs allow a simple mounting of the SkySpec-1D telescope, SkySpec-Comp, SkySpec-Mini to walls, rails or plates.			
SKY-SPARE-MCU- V2.0	SKYSPEC MCU (MASTER CONTROL UNIT) BOARD V2.0	1x spare main instrument control board with temperature stabilisation controller and instrument firmware for your specific SkySpec instrument.			
SPARE-TSENS-EXD	EXTERNAL DIGITAL TEMPERATURE SENSOR IN WEATHERPROOF HOUSING	1x external digital temperature sensor (ADT) for SkySpec telescopes to measure the ambient temperature • Sealed in stainless steel tubing with a 1.5 m cable • Contact Airyx to find out whether this is compatible with your instrument.		0	
SPARE-TSENS-EXA	EXTERNAL ANALOG TEMPERATURE SENSOR IN WEATHERPROOF HOUSING	1 x external analog temperature sensor (NTC) for SkySpec telescopes to measure the ambient temperature • Sealed in stainless steel tubing with a 1.5 m cable • Contact Airyx to find out whether this is compatible with your instrument.			•
SPARE-TSENS-SPD	DIGITAL TEMPERATURE AND HUMIDITY SENSOR FOR SPECTROMETER CONTROL	1 x digital sensor to control spectrometer temperature and monitor humidity • On micro printed circuit board with 30 cm connection ribbon cable • Humidity monitoring to avoid water condensation on sensitive spectrometer • 12C digital address 0 • Direct connection to internal Airyx controller board.			• • •
SPARE-TSENS-DX	DIGITAL TEMPERATURE SENSOR FOR MONITORING > Digital sensor address selectable = 0, 1, 2, 3	1 x digital ADT temperature sensor for monitoring. Internal used in Airyx instruments • On micro printed circuit board with 30 cm connection ribbon cable • Digital IZC-adress is selectable (0, 1, 2 or 3) • Also used in older instruments (instead of [SPARE-TSENS-SPD]) to control spectrometer temperature • Direct connection to internal Airyx controller board.			
SPARE-FGLAND	WEATHERPROOF FIBRE CABLE GLAND WITH SEALING, UV	Weatherproof PG11 fibre cable gland with sealing • For a water and air tight fibre feedthrough • For outdoor use (UV resistant).			
SPARE-CGLAND	WEATHERPROOF M16 CABLE GLAND WITH SEALING, UV	Weatherproof M16 power and data cable gland with sealing (large size) • For a water and air tight cable feedthrough • For outdoor use (UV resistant).			•
SPARE-TGLAND	WEATHERPROOF M12 CABLE GLAND WITH SEALING, UV	Weatherproof M12 temperature sensor cable gland with sealing (small size) • For a water and air tight cable feedthrough • For outdoor use (UV resistant).			•



						types	
Item#	Description	Comments	Related articles	Image	1D 2D	Сотр	Mini
SPARE-PCEM1	ICAD / SKYSPEC-COMP EMBEDDED MEASUREMENT PC INCL. 256 GB SSD > Windows 10 IoT installed and optimised for measurement applications > Installation and configuration of measurement software included > Incl. 4 GB RAM > Incl. 256 GB SSD hard drive	Replacement of internal embedded PC (pITX) in Airyx instruments incl. RAM and SSD hard drive				•	
IC-SPARE-FILTHPFA	PFA AEROSOL FILTER HOLDER > To hold aerosol filters > For 1/4 inch tubes > Incl. adapter and tubes for 6mm > Incl. keys to open the filter holder > Incl. 1x PTFE aerosol pore filter & 1x PTFE aerosol depth filter	Made from chemical inert PFA material. Used in ICAD inlet line.		AB)	•		
SPARE-PELTIER-V2	PELTIER COOLER AIRYX	Peltier cooler in Airyx instruments with cooling function. Peltier regulate the heating / cooling of the instrument between the heat sinks. Silicon sealed version		0		•	•
SPARE-FAN80V3	HEAT EXCHANGER FAN - 80 MM Long life and high power	Fan fitting to Airyx temperature stabilisation heat exchangers.			•		
SPARE-FAN80V4	HEAT EXCHANGER FAN - 80 MM, IP64 for outdoor application (water and UV resistant) Long life and high power	Fan fitting to Airyx temperature stabilisation heat exchangers for SkySpec-Comp and SkySpec-Mini • IP64 weatherproof version for outdoor application				•	•
SPARE-FANFILT80	FAN FILTER - 80 MM - WASHABLE	Fan filter fitting to Airyx temperature stabilisation heat exchangers.				•	•
SPARE-SILICA	SILICA DESICCANT - 0.9 KG (11)	0.9 kg silica desiccant with colour indicator (orange -> greenish) to be used in Airyx instruments and zero air systems (ICAD instruments).			•	•	•



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ltem#	Description	Comments	Related articles	Image	1D 2D
RVICES	-				
SKY-SERV-INSTL	ONLINE INSTALLATION AND OPERATION SUPPORT - SKY SPEC SkySpec online installation and operation support via remote desktop (not on site) for 1 year. Price per instrument.			X	•
KY-SERV-MT-1D	CORRECTIVE MAINTENANCE SERVICE/SUPPORT - SKYSPEC 1D Corrective maintenance service and support extension for SkySpec 1D systems (after first year). Price per year and instrument.	This is analogue to a longer warranty for this instrument. This does not include shipping costs if required. Required to be ordered with a new instrument.		×	
(Y-SERV-MT-2D	CORRECTIVE MAINTENANCE SERVICE/SUPPORT - SKYSPEC 2D Corrective maintenance service and support extension for SkySpec 2D systems (after first year). Price per year and instrument.	This is analogue to a longer warranty for this instrument. This does not include shipping costs if required. Required to be ordered with a new instrument.		X	•
KY-SERV-MT-COMP	CORRECTIVE MAINTENANCE SERVICE/SUPPORT - SKYSPEC COMPACT Corrective maintenance service and support extension for SkySpec Compact systems (after first year). Price per year and instrument.	This is analogue to a longer warranty for this instrument. This does not include shipping costs if required. Required to be ordered with a new instrument.		X	П
KY-SERV-MT-MINI	CORRECTIVE MAINTENANCE SERVICE/SUPPORT - SKYSPEC MINI Corrective maintenance service and support extension for SkySpec Mini systems (after first year). Price per year and instrument.	This is analogue to a longer warranty for this instrument. This does not include shipping costs if required. Required to be ordered with a new instrument.		X	
ERV-NONLIN	SPECTROMETER NON-LINEARITY CHARACTERISATION Spectrometer non-linearity • Quantification and analysis • Protocol (per spectrometer)	Included when buying an Airyx instrument		X	•
KY-SERV-EXT	SKYSPEC INSTRUMENT MAINTENANCE SERVICE (EXTENDED) Check of all system parameters • Cleaning optics • Replacement of desiccant • Instrument performance test and spectrometer test • Wavelength calibration • Including small repair parts • Instrument stability test with test measurements over min. 7 days	Service package includes the check and maintenance of the instrument at the laboratories of Airyx company.		×	• •
ENTAL / TR	RAINING / MEASUREMENT SERVICE				
	Airyx provide a large range of Measurement services, instrument rental and training. Please contact Airyx for more details.				• •
HGD	MONTHLY RENTAL OF SKYSPEC-COMPACT-v.250-SYSTEM - HIGH GRADE DETECTOR > Passive UV/VIS remote sensing • Trace gas profiling from ground level to 2 km • Height resolution up to 100 m • Detectable gases: NO2, HCHO, SO2, O4, 03, H2O, HONO, Glyoxal, BrO and IO > Telescope: 1D motorised for elevation scans • Elevation range: -10" to 190" • Tilt sensor based automatic real-time elevation angle correction (0.2" pointing accuracy) • Heater for cold temperatures • FOV (-0.3") optimised for MAX-DOAS applications • Lense focal width: 75 mm • Lense clear aperture: 22.5 mm • Weatherproof housing for outdoor application > Spectrometer: high grade back thinned CCD detector • Low straylight design • Spectral range: 300 - 460 mm • Spectral resolution: -0.6 nm • High spectral sampling: -7 px/FWHM • Active temperature stabilisation • Dark spectra, wavelength calibration (-0.05 nm accuracy) and detector non-linearity correction included > integrated camera included (one viewing direction) > Integrated Camera included (one viewing direction) > Integrated PC (Win10 system) • Integrated GPS • Software for automated measurements included • SKYSPEC evaluation software package V3 included > 12V power connection, power supply included > Polycarbonate IP64 housing • Dust and weatherproof (incl. weatherproof connectors) • Box dimensions: 30 x 20 x 13.2 cm³ • Optics tube length: 16 cm • Weight -7 kg > Data communication: LAN • Wi-Fi (external adapter ACC-WIFIUSB included)		REQUIRED ARTICLES: Measurement software [SKY-SOFT-STD] • WIFI Stick [ACC-WIFIUSB] • External power supply [ACC-PWR-8A] RECOMMENDED ARTICLES: Tripod [SKY-ACC-TRIPOD] • Evaluation software [SKY-EVAL-V3-15] • Cameras [SKY-CON-TCAMC] • Lan Data Cable 1P68 [ACC-LAN] • 12 V Power Cable Extension IP68 • Spare part set [SKY-SPARE-SET-COMP] • Maintenance Set [SKY- MAINT-SET] • Tablet [ACC-TAB] • Services [SKY-SERV-INSTL] tild [SKY-SERV-MT-COMP]		
SKY-RENT-SERV	RENTAL SERVICE PACKAGE FOR QUALITY CONROL SKYSPEC > Wavelength calbration, spectra and intensity check > Setup of spectral data analysis > Test measurement and quality control			NOT APPLICABLE	
KY-RENT-TRIPOD	MONTHLY RENTAL OF SKYSPEC TRIPOD AND ADAPTER > Stable tripod with adapter for simple mounting of SkySpec instruments/telescopes > Tripod height adjustable: 0,91 to 169 cm • Leg distance: 80 to 135 cm > weight: 3,4kg • transport length: 106cm > Includes tripod spread stop	Rental of instrument for customer measurement or testing projects. Airyx provide 75% of rental fee reimbursement, if within 3 months after the rental the same or similar type of instrument is purchased.			



					SkySpec (SS) Subtypes
Item#	Description	Comments	Related articles	Image	1D 2D Comp
SKY-RENT-2D-MGDa	MONTHLY RENTAL OF SKYSPEC -2D SYSTEM v.250 > SPECTROMETER-UNIT-v.250 - TWO SPECTROMETERS (UV/VIS) - MIXED GRADE DETECTORS > Passive UV/VIS remote sensing > Detectable gases:NO2, HCHO, SO2, O4, O3, H2O, HONO, Glyoxal, BrO and IO > Spectrometers: Actively temperature stabilised (heating & cooling) > Dark spectra, wavelength calibration and detector non-linearity correction included > UV-Range: High grade back thinned CCD detector • Spectral range: 300 - 410 nm • Spectral resolution: -0.45 nm > VIS-Range: Regular grade CMOS detector • Spectral range: 405 - 550 nm • Spectral resolution: -0.6 nm > Polycarbonate IP64 housing • Box dimensions: 40 x 30 x 13.2 cm³ • Weight -8 kg > Pre-installed and adjusted 15 m fused silica optical fibre > Incl. measurement computer > Incl. SKYSPEC instrument control and data aquisition software • MAX DOAS Standard & Imaging > Incl. SKYSPEC evaluation software package for Standard and Imaging applications	Rental of instrument for customer measurement or testing projects. Airyx provide 75% of rental fee reimbursement, if within 3 months after the rental the same or similar type of instrument is purchased.		IMAGE COMING SOON!	•
ACC-RENT-BAT-50AH WEEK	h-WEEKLY RENTAL OF AIRYX INSTRUMENT LIPO BATTERY 12 V/50.4 Ah IP67 - PELICASE > Included: 5 A charger > Included 1.5 m power cable for Airyx instrument connection > 3.37 kg > Rugged Peli 1150 case (24 x 19 x 11 cm³) > Including extra shipping fees for batteries in EU	Battery pack for instrument power supply in remote areas • IP67 • 3.37 kg • Allow -15 h of ICAD operation • 3 IP67 power connectors		0	
SHIPPING / F	PACKING CUSTOMS (REGULAR)				
SHIP-D-S1	SHIPPING TO GERMANY - SIZE 1, including shipping insurance	< 5 kg e.g. Spare Parts			
SHIP-D-S2	SHIPPING TO GERMANY - SIZE 2, including shipping insurance	5 kg - 20 kg e.g. ICAD, SKYSPEC-COMP, SKYSPEC-MINI, ICAD-XX-210L			
SHIP-D-S3	SHIPPING TO GERMANY - SIZE 3, including shipping insurance	> 20 kg e.g. SkySpec-1D / 2D			•
SHIP-EU-S1	SHIPPING TO EU COUNTRIES - SIZE 1, including shipping insurance	< 5 kg EU countries excl. Germany e.g. e.g. Spare Parts			
SHIP-EU-S2	SHIPPING TO EU COUNTRIES - SIZE 2, including shipping insurance	5 kg - 20 kg EU countries excl. Germany e.g. ICAD, SKYSPEC-COMP, SKYSPEC-MINI			
SHIP-EU-S3	SHIPPING TO EU COUNTRIES - SIZE 3, including shipping insurance	> 20 kg EU countries excl. Germany e.g. SkySpec-1D / 2D, ICAD-XX-210L			
SHIP-W1-S1	SHIPPING TO WORLD 1 DISTANCE COUNTRIES - SIZE 1, including shipping insurance, export custom documents	< 5 kg incl. export customs, Europe excl. EU e.g. Spare Parts			
SHIP-W1-S2	SHIPPING TO WORLD 1 DISTANCE COUNTRIES - SIZE 2, including shipping insurance, export custom documents	5 kg - 20 kg incl. export customs, Europe excl. EU e.g. ICAD, SKYSPEC-COMP, SKYSPEC-MINI			
SHIP-W1-S3	SHIPPING TO WORLD 1 DISTANCE COUNTRIES - SIZE 3, including shipping insurance, export custom documents	> 20 kg incl. export customs, Europe excl. EU e.g. SkySpec-1D / 2D; ICAD-XX-200L			
SHIP-W2-S1	SHIPPING TO WORLD 2 DISTANCE COUNTRIES - SIZE 1, including shipping insurance, export custom documents	< 5 kg incl. export customs, non-Europe countries e.g. Spare Parts			



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ltem#	Description	Comments	Related articles	Image	1D 2D Comp	
SHIP-W2-S2	SHIPPING TO WORLD 2 DISTANCE COUNTRIES - SIZE 2, including shipping insurance, export custom documents	5 kg - 20 kg incl. export customs, non-Europe countries; e.g. ICAD, SKYSPEC-COMP, SKYSPEC-MINI				
SHIP-W2-S3	SHIPPING TO WORLD 2 DISTANCE COUNTRIES - SIZE 3, including shipping insurance, export custom documents	> 20 kg incl. export customs, non-Europe countries; e.g. SkySpec-1D / 2D; ICAD-XX-200L			•	
SHIP-CA-SA	SHIPPING ALUMINIUM CASE - SIZE A > Size (outside) W/D/H cm: 58,5 × 38,5 × 26,5 > Fit for: SkySpec-Compact, SkySpec-Mini > Thickness aluminium: 1mm	fit for SkySpec-Compact, SkySpec-Mini , with integrated shock absorbing material, boxes can be stacked; Tripod [SKY-ACC-TRIPOD] packed separately		0 8 0 8		
SHIP-CA-SAT	SHIPPING ALUMINIUM TROLLEY CASE - SIZE A > Size (outside) W/D/H cm: 58,5 × 38,5 × 26,5 > Fit for: SkySpec-Compact, SkySpec-Mini > Thickness aluminium: 1mm > With removal trolley system	fit for SkySpec-Compact, SkySpec-Mini , with integrated shock absorbing material, boxes can be stacked; Tripod [SKY-ACC-TRIPOD] packed separately				
SHIP-CA-SC	SHIPPING ALUMINIUM CASE - SIZE C > Size (outside) W/D/H cm: 80,0 × 54,0 × 36,5 > Fit for: ICAD (all models), SKYSPEC-1D / 2D > Thickness aluminium: 1mm	fit for ICAD especially for the High Grade - L & Emission version instruments, with integrated shock absorbing material, boxes can be stacked		8 9 F		
SHIP-CA-SCT	SHIPPING ALUMINIUM TROLLEY CASE - SIZE C > Size (outside) W/D/H cm: 80,0 × 54,0 × 36,5 > Fit for: ICAD (alt models), SKYSPEC-1D / 2D > Thickness aluminium: 1mm > With removal trolley system	fit for ICAD especially for the High Grade - L & Emission version instruments, with integrated shock absorbing material, boxes can be stacked			•	



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ltem#	Description	Comments	Related articles	lmage	1D 2D Comp Mini