



WIWIPHOTO & FILM

MULTICOPTER | TIMELAPSE | OFFSHORE | 4K | 360°

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MOVIES AND PHOTOS FROM COOLEN PERSPECTIVES





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| PHOTOS |

I edit the RAW images with ADOBE Lightroom and Photoshop and make them available as a jpg and tiff file in high- and low-resolution. On the contact sheet, all motifs are clearly displayed in small format with file name.

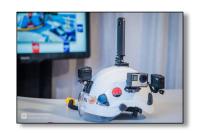
As a camera I use the high-end full-frame cameras CANON 1DX Mark II 21 megapixels in jpg and raw format with 6 different L-lenses:

- EF 8-15mm f/4L Fisheye USM
- EF 24-105mm f/4L IS USM
- FF 24-70mm f/2.8 L ILUSM Universal-700m
- FF 70-200mm f/2.8L IS II USM incl. Extender FF 2x II Tele
- FF 85mm f/1.8 USM Portrait

Furthermore, I create photos with the full-frame camera SONY A1 with 50 megapixels with:

• G-Master FE 2.8/16-35 lens in jpg, tiff and raw format.

With the Action-Cams GoPro Hero 5.6.7.8.9.10 (all black version) as well as DJI OSMO Action with special mounts, such as attached to the ship's crane by magnet, I create photos, videos and time-lapse with upto 23MP in mp4, jpg and raw format.



360° photos and videos are created with the Ricoh Theta Z1 and INSTA360 ONE cameras.









| VIDEOS |

The material I provide you in the following formats available:

- in mp4 / mov format (h.264 or h.265) in a resolution of 16:9 we commonly called 4K (UHD=3.840 x 2.160 Pixel), 25FPS if possible in 50FPS
- Atomos Ninja V Recorder 10-Bit Apple ProRes RAW 4:2:2

With the following 3-axis gimbal cameras, I record videos in mp4 / mov format:

- DJI OSMO Pocket2 UHD Resolution 3.840 x 2.160 with 50FPS at 100 Mbit/s
- Apple IPhone 13 Pro Max with 12 megapixels, 4K resolution with 50FPS with Cinema-mode with DJI OSMO Mobile 5
- Sony A1 with 50 megapixels, 4K with 120FPS with DJI Ronin-SC
- Canon 1DxII with 21 MP megapixel, 4K (17:9) or UHD 16:9 with 50FPS with Edelkrone slider and heads and Syrp Genie Mini II Motion Controller

New Camera do not need a gimbal any more:

• GoPro Hero 10 with 23 megapixels, up to 5,3K resolution with 50FPS or 4K 120FPS with HyperSmooth 4.0









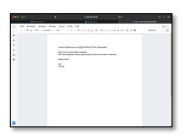




| IMAGEFILM |

Hand-held image clips are shot in the highest quality with the CANON XF405 camcorder.





- Image sensor 1 " (effective) CMOS
- 4K UltraHD (UHD 2,160p) resolution with 3,840 x 2,160 (16: 9) 50FPS
- 15x optical zoom with internal lens mount
- 3 ND filters
- Dual Pixel CMOS Autofocus
- Optical Image Stabilizer
- Video codec XF-AVC, MP4 H.264
- WLAN and LAN connectivity and IP-streaming, HDMI and 3G-SDI
- EDELKRONE Slider, SYRP motion control devices
- HOLLYLAND Wireless Transmission System MARS 300 Pro Enhanced

Online Collaboration:

We can prepare the preparation for an image film together online: The conception, the script and the briefing can be edited together online Word documents via my home office server. Every logged-in participant sees the changes to the document in real time and can enter changes.





| INTERVIEWS |



Might need some on-site interviews?

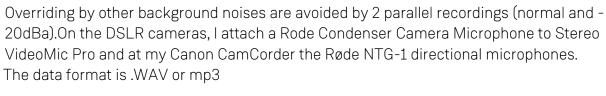
As a discreet lapel microphone in broadcast quality with lower noise with practical omnidirectional characteristics, the Røde Lavalier clip-on microphone with the IPHONE recorder and the two-channel audio recorder 700M F1-I P are used. Wherever possible, I use the Røde Wireless Go digital audio links.





Recordings of the highest quality sound are created with the mobile audio recorder 700M H6.

3 exchangeable microphones (directional microphone, 90 ° and 120 °) with windjammer against wind noise are available.





You don't want to memorize the entire text and clear it? No problem, read the text from the teleprompter, look directly into the camera behind the mirror and vary the scrolling speed even with the remote control in your hand.

To put the interviewer in the right light, I use 4 mobile LED spotlights



| DRONES |

I have collected mostly offshore experiences in about 900 drone flights in the last 8 years and use the following drones:

Highest DJI drone camera image quality: Inspire2 X7 50mm



1. **DJI Inspire2 X7** 16 and 50mm 14 f-stops Dynamic range

Photos: 24 megapixels, formats JPG / TIFF / RAW

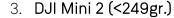
Videos: Super 35mm sensor, resolution 17:9 | 4K 4,096 x 2,160 pixels and UHD 3,840 x 2,160 pixels, 30 to 60FPS with 8-bit depth, 100Mbps, format mp4

H.264 on request H.265

2. DJI Mavic 2 Hasselblad

Photos: 20 megapixels, with eHDR 14 EV aperture range dynamic range, formats JPG / TIFF / RAW

Videos: 1 "CMOS sensor, resolution 16:9 UHD 3,840 x 2,160 pixels, 30FPS, 10bit Dlog-M color profile, 10-bit HDR video, H.264 on request also H.265 / HEVC



Photos: 12 megapixels, formats JPG / TIFF / RAW

Videos: 1/2,3 "CMOS sensor, resolution 16:9 UHD 3,840 x 2,160 pixels, 30FPS,

H.264 with 100Mbit/s









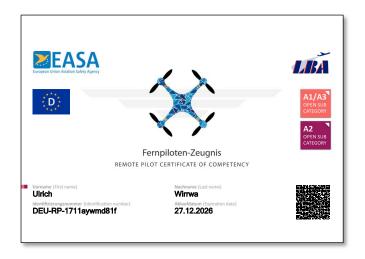
| DRONES |

Proof of knowledge according to German A1/2/3, \$21d LuftVO and Denmark Dronebevis Kategori 1B:

All my drones are provided with the prescribed refractory address stickers and every year, I extend the threat insurance with cover of 3,000,000 € for commercial use.

Permits:

For the filming, I pay attention to all relevant drone ascension pads and obtain any permits, such as currently my 18-month exemption for the rise of unmanned aerial systems on the Elbe from a ship to be allowed to record the Elbe well.





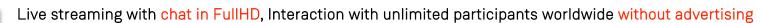








|LIVESTREAM|





12V mobile live stream case with encoder for FullHD 1080p streaming to VIMEO / YOUTUBE and Facebook. Multi-Cam including 4-way mixer and LAN/WLAN USB connection for a notebook for ZOOM or TEAMS Meetings



- Live interaction tools: chat, Q&A, live surveys and links to Download media content
- Transfer in FullHD with adaptive streaming to your end devices and browser without software installation
- unlimited number of participants worldwide
- Livestream also with private link, password and embedding authorizations in your website
- Customizable player with your logo and lower thirds directly above yours Browser, without over-the-counter, without advertising
- Stream live anywhere: 5G/LTE flat rate from Vodafone, Telekom and 02
- Virtual control room with professionell Transitions to multiple cameras and microphones
- Screen sharing e.g. for your Show PowerPoint chart
- Multi-channel streaming on RTMP servers and in parallel across platforms like Facebook, Youtube and Twitch
- Built-in chroma key for green backgrounds
- Start of live streaming ad hoc or announced in advance
- At the end of the event, the video will be automatic archived online







https://vimeo.com/397304285/6145419249

| TIMELAPSE PHOTOS + VIDEOS |



If a time-lapse recording has to take a short time, several hours, I use my Sony A7r2 with a resolution up to 8K. If a time-lapse recording has to take a short time, several days or 2-3 weeks, I use e.g. a GoPro 9 optional with incl. Solarpanel and LTE connect.

If a time-lapse recording has to take a long time, several days, weeks and months, I use my WIWI TIMELAPSE SYSTEM consisting of:



The camera type AXIS P1448-E is used, here the most important technical data:

4K (3.840x2.160), Weather protection IP66 / IP67, Operating condition -40 ° C to 60 ° C



- Remote multiple selectable recording intervals of 1 image per second / minute / hour
- 2 LTE mobile cards Remote access to live image and system monitoring with password and firewall

3. REMOTE-OFFICE:

In the office near Hamburg ...

- The camera images are displayed on the monitor at least once a day, so that lens contamination, such as light pollution, may occur. Bird droppings or spider webs detected as soon as possible.
- The most important key data, such as temperature, mobile signal strength, amount of data transmission and error messages are continuously retrieved from the LTE router and displayed to detect system faults as early as possible.











| VIDEOCUT - FINALCUTPRO |

I provide you a short video about 2-3 minutes cutting of each milestone. The video contains the most beautiful clips from the ground and from aerial in short approx. 4 second sequences. The clips are provided with the file names, so your agency can quickly find the suitable clips for an image video.

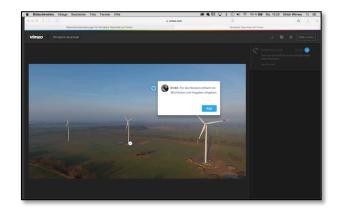
- I cut the film underlays with O-tones with FinalCutPro on the IMacPro.
- All uncut footage I hand over you on 1 hard disk formatted in Mac / Windows format

How will the film be provided for review?

- I load the finished movie on my VIMEO.COM PRO account with a password. You can simply enter your remarks online in the timelime image.
- For the change requests, I can enter answers directly online.

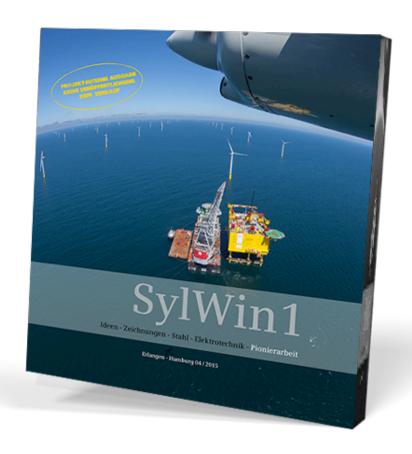
Through this online collaboration, the processing time to the finished film is extremely short.





| PROJECT BOOK |

For the Siemens AG I have created two photo books "SylWin1" and "BorWin3" with Adobe and print, e-book version is included:



Printing process: offset printing

Pages: 128

Format: 30 x 30 cm Paper: white, matt

Equipment: Hardcover with photo print

Edition: 750 pieces
Printing costs: net € xx.xxx, -



ARCHIVING AND ONLINE PHOTO STATION

In addition to the transfer by external hard drive, the upload via Secufex or WeTransfer I also offer the use of my own password-protected server "Photostation" on which I like to provide the pictures for project milestones in folders at least 2 years after the project ended. The computer is protected in my own office with a firewall against unauthorized access. The connection is with fast Internet from Vodafone with 200 MBit/s with own firm IP address.

Link to the customer folder:

https://multikopterfoto.de/photo/?t=Albums/album_496c6c756d696e696572746520547265636b6572#Albums/albu m_496c6c756d696e696572746520547265636b6572

Password possible





SAFETY OF WORK |

I use the prescribed work clothes and take part in the preliminary shift "Toolbox Talk" on a daily basis.



| MODEL-RELEASE |

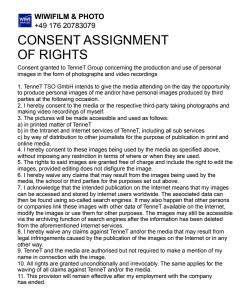
I will try to get a consent from all identifiable people that the individual declares that they agree to the use of the material in publications or online communications. I let the respective person fill out the corresponding form. If this is not possible in the respective situation, I write down the names of the depicted persons and the company name.

Has proven the use of my smartphone app "Easy Release":

The texts are stored, from the model I create a photo with the app, the model fills name and address, signs with the finger. Immediately a PDF comes to the model by e-mail, to customer and to me - finished, documented and digitally archived.









Datum der Unterschrift (tt.mm.jj): 14.08.2018

| CUSTOMERS LOGOS + SECURITY |

For professional Photos and Videos I do not accept a person who holds a cigarette or has it in his mouth and no one who has his hands in his pockets.

If there are customer logos on site, I record them. I also offer to bring customer stickers, customer helmets and / or jackets and vests with the customer logo and place them in the right place so that the customer logo is clearly visible.

SIEMENS CROCK

| SAFETY - CERTIFICATIONS |

The topic of safety has the highest priority for me and your company in all areas.

For offshore photography and filming I am offshore certified and have the following documents and evidence, which I regularly renew:



















Every time you visit a shipyard, facility or ship, I take part in the local safety briefing.

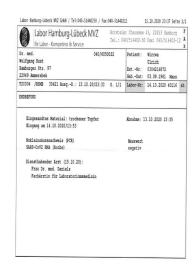
| COVID-19 |



I adhere to current corona measures:

- Nasal and mouth FFP2 mask
- 2m distance rule
- Hygiene concept on the construction site similar to e.g. for my office
- Perform a PCR test before traveling to the shooting location
- On every new shooting day, I do a quick test myself in the morning
- Optionally, 1 week before the shoot, I measure my body temperature at home 3 times a day and send the Excel list to the customer.
- I have been vaccinated twice with BioNTech and have a booster vaccination every 6 months







PHOTOGRAPHERS PRESENTATION





"Photos and movies from cool perspectives" that's his motto.

Ulrich Wirrwa, b. 1961 in Hamburg, married, 2 children, is out of passion with the camera since a young age looking for motifs from unusual perspectives. With chartered airplanes and helicopters, it has been possible for many years to produce particularly impressive photos from an aerial perspective. For more than 10 years specializes in aerial photography using drones in conjunction with high-quality cameras. In recent years, numerous onshore and offshore wind farm photo and film projects have been implemented for its customers. His clients include e.g. companies such as wpd, EnbW, Vattenfall, SiemenGamesa, TenneT, Eurogate, DEME-Group and Siemens-Energy.

The home port of Ulrich Wirrwa is Ammersbek near Hamburg, his field of operations worldwide. For compliance with the occupational safety regulations on construction sites, he acquired the HSE Examination for Operational Employees, valid until 2023 according to document 018 of the Normative SCC Rules and regularly renews all necessary offshore certificates: Suitability Test OKUK / G41, Working at Heights GWO, GWO First Aid, Fire Awareness GWO, Manual Action GWO, Personal Security, Basic Offshore Safety Induction & Emergency Training incl. HUET, Helicopter Underwater Escape Training including CA-EBS and Escape Chute Training to OPITO.



Ulrich Wirrwa has a liability insurance for photographers of € 10 million, a special liability insurance for commercial drone flight, since 1 October 2017 he drones pilot license according to § 21d LuftVO and the "Dronebevis" No. 4353446 of Danish Transport and Construction Agency.

But most importantly, Ulrich Wirrwa enjoys the recordings of the exciting projects.

REFERENCES

Current reference video:



10/2020: S-Bahn S21 Photos and Hamburg Videos incl. Drone, Slider, Timelapse-Footage by myself.

Siemens Mobility Solutions

Client: Gi Suk Sim

Video-Link: https://www.mobility.siemens .com/global/en/portfolio/rail/ stories/the-answer-lies-inthe-digitalrailway.html?linkld=3000000 00561479 Julia Sauer – PQ/PR Coordinator Bilfinger Marine & Offshore Systems GmbH:

"The film and photo shootings of our installation work for offshore wind foundations in the North Sea impressed us. A professional look, technical know-how, a keen sense for the staff on the installation ship have led to a great result.

Thanks to the drone shots, the complex technical processes are very vivid and presented from spectacular perspectives. "

Example movie, see: https://vimeo.com/wiwiphoto/sandbank





Lars Kläschen - press officer Siemens Region Nord:

"Mr. Wirrwa always shoots the EXTRA-MILE at his photo shoots to shoot more interesting pictures than the other photographers, so we like to book him "

For further questions please call: 0049 (0) 40 / 2889 - 2309

Thorsten Fitzner, Technischer Leiter, Nordsee Nassbagger

Example movie, see: https://vimeo.com/397304285/6145419249

"Mr. Wirrwa has been our home and farm photographer for many years and delivers us great Perspectives of our dredger ships. I got the first chance this month (February 2020) watching the live broadcast of our work on the Elbe from my office.

Mr. Wirrwa was traveling with his cameras on our crane ship on the Elbe.

Great transmission quality, not a single video dropout in the 6 hours of work until the boulder is deposited on Wedeler Beach."



CUSTOMERS























SENVION









SIEMENS Ingenuity for life































Rathaus Bürgermeister Horst Ansen, RRW-Kalender Ruhe, Vattenfall, FDP, TBQ, Siemens, Freiwillige Feuerwehr Hoisbüttel, TUI Cruises, Bestattungen Goedecke, relaxa Hotel Bellevue, Farahnaz Abendmoden, Freiwillige Feuerwehr Bünningstedt, Peugeot Scooter, Stetzka Steuerberatung, KTG Kraftfahrzeug-Technik, Hamburg Marketing, TC Zündfunke, HamburgMusik gGmbH Laeiszhalle Hamburg - Elbphilharmonie Hamburg, HOMOTH Medizinelektronik GmbH & Co KG, Bilfinger-Berger, Architekt Schnittger+Partner, IBH-Elektronik GmbH, DMOCH-Mode, Grimm-Schweisstechnik, Visavis Filmproduktionsfirma, IVECO Nutzfahrzeug-Service GmbH, VAEPLAN, Freiwillige Feuerwehr Klein Hansdorf, Technische Universität Hamburg TUHH, MK-Timelapse, MJM Steelman 24, Band SUPERKERLE, Switch-Event Motorrad Training, North Frisian Offshore, Recharge Reneable Energy News, Nordmetall - Aktiv im Norden, Zum Pferdestall am Gutshof, Cineflight, BMS A/S Crane Denmark, PowerFlow Fitness GmbH, Harburger Gospelchor, Tactical Responder®, Radiologische-Allianz, Jenner-Egberts Architektur Fotografen, Betonbau GmbH&Co.KG, Siemens Windpower GmbH, WPD Windpark Nordergründe, Oliver Zimtstern Multikopterfotograf, Nordic Yards Wismar GmbH, Die Grüne Manufaktur, Kaffeehaus Goldmarie am See, Van Oord, Senvion, Eurogate, Stadtplan St. Georg, Rockgruppe DieMannschaft, DEME-Group Nordsee Nassbagger, F+Z Baugesellschaft, EnBW, TenneT, lab3, Powerlines-Group, Depenbrock, Implenia, AutozugSylt, Otary-Rentel, Hamburg-Invest, Hamburg Marketing GmbH, SwireBlueOcean, Deutsche Bahn S-Bahn Hamburg, SWOP, BWO, ViethGbR, Yunneng Wind Power Co., Ltd., THB DVV Media Group GmbH, Offshore Wind Messeund Veranstaltungs GmbH, WAB e.V., GRS-Offshore, Heckerbau, Service Relation Reforest'Acteurs