APPLIED
STREETVIEW

Original 360 Streetview Production System

SPECIFICATIONS
2019

CAMERA

Number of sensors	6
Sensor resolution	5 MP
Sensor size	2560 x 1920 pixel
Image format	jpg
Max frame rate	7 fps
Field of view	360 x 160 degree. All but the car's rooftop.
Release modes	Distance, Interval, Manually, POI (Point of Interest)
Streetview log	Image number, Latitude, Longitude, Altitude, Heading, GPS date and time. Pitch, Roll, Direction, speed. Number of satellites, GNSS fix, HDOP, VDOP, etc.
Track log	Extra track recorded at 20 Hz.
Binary log	All data packages the positioning device provides.
Data capacity	Unlimited due to swappable SSDs.
SSD capacity	120 GB, 250 GB, 500GB, 750 GB, 1 TB
Recording Capacity	Each data-set is about 4 MB. The 120 GB SSD lasts for 30,000 streetviews. The 1 TB SSD lasts for 250.000 streetviews. With Distance release mode set to 5 meters: - 120 GB SSD lasts for 120 km. - 1 TB SSD lasts for 1000 km.
Power supply	12 Volt DC by batteries or UPS.
Remote Control	Via WIFI by Android App on the included tablet

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CAMERA cont.

Mounts	Mounts for car, backpack, boat and locomotive are available.
Exposure, white balance, gain	Automatic
Dimensions of the camera	Height: 40 cm Diameter: 18 cm Weight: 1.8 kg (without battery)
Sensors	6 Aptina MT9P031, 5MP each
Lenses	6 fisheye lenses, f2.8, fixed focus
Lens protection	6 screw-on UV filters. Easy to clean and replace
Heat dissipation	Two large heat-sinks and an internal fan.

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Positioning by GNSS and RTK

Positioning System	GNSS and RTK with Dead Reckoning and optional wheel sensor
Module	Spatial by Advanced Navigation
Receiver	u-blox M8
Supported Navigation Systems	GPS, GLONASS, BeiDou
Accuracy improvement	RTK (optional)
Positioning robustness	OBD2 wheel sensor (optional)
GNSS accuracy Horizontal Position Accuracy Vertical Position Accuracy	 2.0 m 3.0 m
RTK accuracy Horizontal Position Accuracy Vertical Position Accuracy	 0.02 m 0.03 m
Max recording speed	Recording in Distance mode set to 5 meters: 110 km/h
RTK correction signal	RTCM 3.1 by NTRIP. By mobile phone and Bluetooth.

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Creator 3 Main processing program

Program	**Creator 3** by Applied Streetview
Processing capacity	250.000 streetviews per day. With a PC with NVIDIA GTX 1080 graphics card.
Operating system	Windows 10, 64-bit.
Streetview Format	Equirectangular
Streetview size	8192 x 4096 pixel
Streetview FOV	360 x 160 degree. Everything but the rooftop of the car.
Streetview format	jpg
Leveling modes	Auto leveling, static leveling, no leveling.
Meta-data	Your Copyright, local recording date and time, Latitude, Longitude, Altitude, Direction, GPS Date, GPS Time.

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Creator 3 cont.

Main Features	- Project management - Tour management - 2-screen mode to view both the map and the streetview - Position visualization on map and aerial images - Automatic duplicate removing - Automatic leveling - Automatic application of road names from OpenStreetMap - Convert recordings from Interval into Distance mode - Timeline - Manual editing - Optional individual settings per streetview - Player configuration - Player preview - Creation of datasets for - Web Player - Android Player - Instant Player - G-Publisher - Google Earth Pro - Google Earth Plus - Streetviews only - Quick processing of selected samples only - Automatic processing

Programs

Creator 3	Creates streetviews and players.
G-Publisher	Upload to Google Streetview and Google Maps.
Privacy Keeper	Automatically detects and blurs faces and number plates to comply with laws, rules and regulations.
Instant Player	For Windows 10. Serves streetviews on the fly. No need to process them before.
Photogram	Geo-reference any object visible in a streetview sequence recorded by car.
Railway Editor	Processes railway footage into streetviews and a railway player with tracks, milemarkers and search.
Remote Control	Operate the camera with the Android tablet. Manage your recording projects.
AS Server	Makes all processed projects available to the entire team in your office.
Facades	Match streetviews to data from your GIS system. Extract photos to visualize points of point layers.
Tiles Downloader	Download map-tiles for offline-use. For the Remote Control and the Android Player.

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Web Player Plugins

Visualizer	A simple way to have the streetview player show any geo-referenced asset with additional info.
Asset Finder	The big brother of the Visualizer. It brings its own database for assets. Provides link lists.

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Additional Original 360 Services & Documents

Additional services are available to you to ensure a smooth start and continued success using your Original 360 Camera, mounts and programs.

Services
- Training
- Support plans

Accessories
- Spare parts
- RTK positioning device
- Mobiel UPS
- Wall socket power supply

Integration and Customization
We are available for hire should you need integration and customization of any of our programs, players or plug-ins with your existing IT software.

Documents
- Price List
- Specifications (This document)
- Company Presentation

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