Indie pov

MANUAL

incl. GUI V 2.1.5.0

Indie cam

We build cameras.

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INTERESTED?
[excellent service worldwide]

Feel free to contact us any time and check our webpage frequently for updates *www.indiecam.com*

READ ALL OF THESE INSTRUCTIONS CAREFULLY!

OPERATION

- Only use the type of power source indicated in the manual!
- Do not insert objects of any kind into any part of the system if not clearly qualified for the task in the manual!
- Changing camera lenses should be done in a dry and dust-free environment. If this is not possible, take extra care that no dust enters the camera while the lens is off!
- When no lens is attached to the camera, immediately place the protective cap on the lens mount!
- After changing lenses, always perform a dust check to make sure no dust has settled on the sensor cover glass!
- Never try to remove the sensor cover!

CLEANING

- Clean optical lens surfaces only with a clean lens brush or lens cloth.
- Never use solvents to clean! The use of methanol to clean optical sufaces is not recommended!
- Never use acetone to clean optical surfaces!
- Never use cans with compressed air or gas to blow off the dust!

SAFEKEEPING

- Do not store the camera in places where it is subject to extreme temperatures, direct sunlight, high humidity, severe vibration, or near strong magnetic fields.
- If camera needs to be stored in a place that is considerably cooler than the location where it will be used, consider keeping the camera powered from a mains unit in addition to using the air-drying cartridge.

TRANSPORTATION

- All cables have to be unplugged from the camera when it is transported or stored inside a camera case.
- When moving the camera from a cool to a warm location or when the camera is used in a damp environment, condensation may form inside the lens compartment, on the sensor cover glass, between sensor and its cover glass, and on internal or external electrical connections.

Indiecam manufactures, sells and rents amazingly small cameras and recorders, that deliver very high quality images in RAW and 4:2:2 uncompressed over HDSDI.

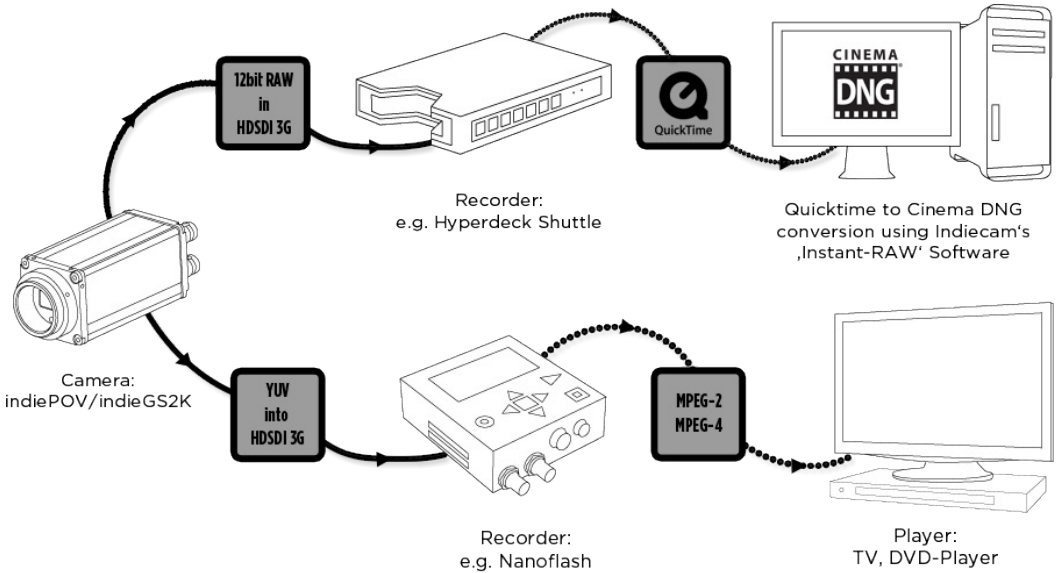
Our high grade professional digital camera-systems, kinetic 3D-Systems and miniature HD-SDI POV RAW-Cameras give you unbelievable possibilities where flexibility, usability and high production value are key requirements.

At Indiecam we strive to build professional film recording equipment that gives you the highest possible image quality, flexibility, good ergonomics and an intuitive workflow at a very attractive price.

All of our equipment is based on these principles. We employ RAW-image recording, HD-SDI connections for ease of use and minimal cabling requirements and the new industry standard CinemaDNG workflow to achieve these goals.

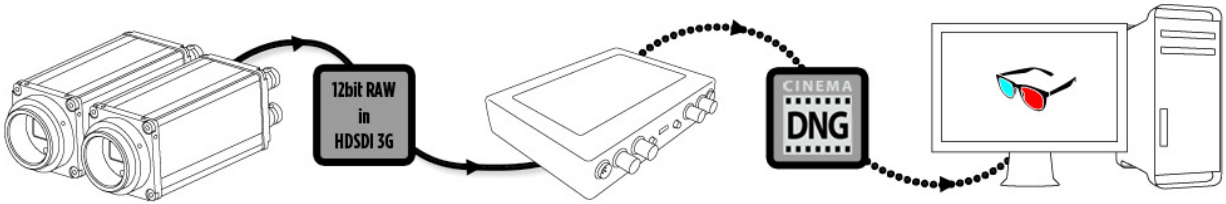
The team at Indiecam

RAW/YUV WORKFLOW





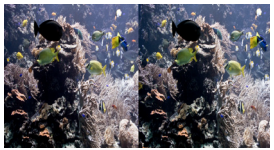

3D WORKFLOW



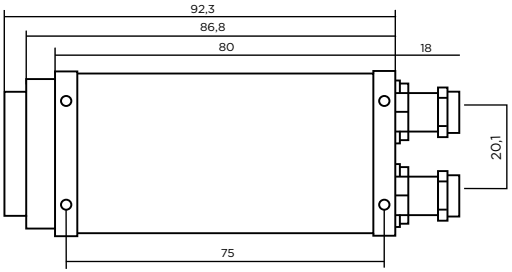
Camera:
2x indiePOV or indieGS2K

Recorder:
e.g. Gemini

Post-production:
e.g. Iridas Speedgrade,
After Effects

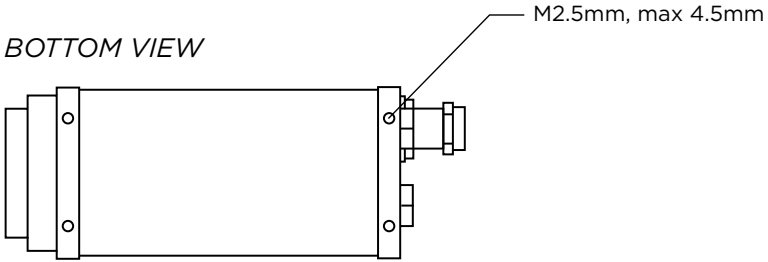


RIGHT/LEFT VIEW

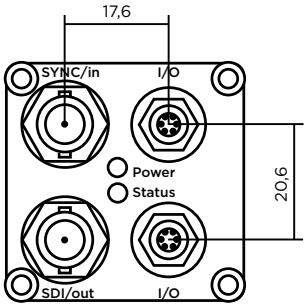


TOP VIEW

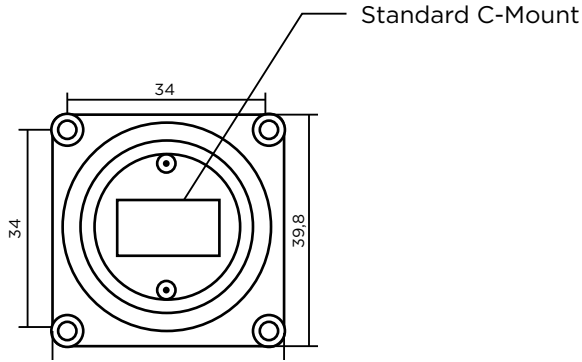
BOTTOM VIEW



REAR VIEW



FRONT VIEW




SYNC
7-24V
SYNC/in
I/O
Power
Status
SDI/out
I/O
HDSDI
RS485

The indiePOV is a very small HD camera, with a 12bit CMOS sensor delivering progressive 1920x1080 images. The camera features RAW-over-HDSDI as well as 10bit uncompressed 4:2:2 (for preview only) via 3G-SDI output.

The indiePOV operates stand-alone without the need of a control-box. It is especially well suited for 3D and other multi-camera-applications because it offers Genlock-Sync through a second 3G-SDI connector. Multiple indiePOVs can easily be daisy-chained and simultaneously configured via one remote connection.

SENSOR	Size	CMOS, 2/3“
	Resolution	1920 x 1080
	Readout	Progressive
	Shutter	Rolling
	Pixel Size	5um
	Frame rates	24/25/30p
GENLOCK	Trilevel Sync	Master/Slave switchable
MOUNT	C - Mount	with backfocus adjustments
	PL - Mount	optional
MODES	RAW, 12 bit	1080p24 / 1080p25 / 1080p30/ 1080p23.98/ 1080p29.97
IMAGE	Gamma	Standard & Custom LUTs
	Gain	-3dB, -1dB, 0, +3dB
	Pedestal / Offset	User adjustable
	Paint Controls	R, G, B
	Color Space RAW	RGB 4:4:4
	Presets	User Preset can be saved, Restore Factory Defaults

INTERFACES	3G-HDSDI	BNC
	Genlock	BNC, switchable In/Out
	2 x I/O	Power + RS-485
	2 x status LED	Amber / Green
POWER	Voltage	7 - 24 V DC
	Consumption	4 w
DIMENSIONS	Size w/o lens	39.8 x 39.8 x 100 mm
	Weight w/o lens	approx. 170 g
ENVIRONMENTAL	Operation	0 - 55 °C, 10 - 90 % RH
	Storage	-20 - +70°C, 10 - 90% RH
	Protection Class	IP40, CE

The Indiecam Remote Control Software is an easy to use Graphical User Interface (GUI) that gives you access to all IndiePOV settings according to your preferences and needs. You can control over 200 daisy-chained cameras via one connection.

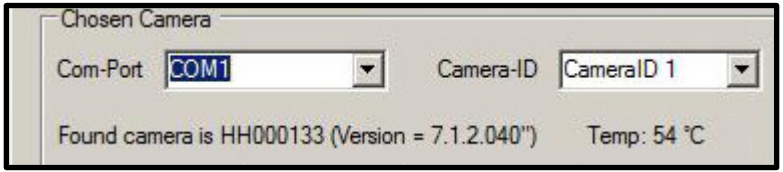
Windows Vista, Windows 7:

Indiecam‘s Remote Control Software works without a classical Setup. Just copy the „GUI V 2.1.5.0“ folder to the desired destination, make sure that there is full access to the folder for all users and create a shortcut of the IndiePOV_remote.exe on your Desktop.

Window XP:

For the Installation of Indiecam‘s Remote Control Software please contact the Indiecam Customer Support.

IndiePOV accepts the Indiecam Power Supply or battery
with an input voltage range from 7 to 24V.
Connect IndiePOV to the Indiecam Power Supply or battery
and wait for the system to boot.



- Supply the IndiePOV with the Indiecam Power Supply or battery (7-24V)
- Wait for the system to boot (about 20 seconds).
- Connect IndiePOV via USB 2.0 to your Laptop.
- Switch on IndiePOV-Remote V.2.1.5.0
- Chosen Camera: e.g. Com-Port COM 1
- You will see the serial number and the firmware of the camera.

Genlock:
You only get a picture in Slave mode if an extern Genlock via SYNC/in is connected (e.g. a further indiePOV in master mode or Sync generator)

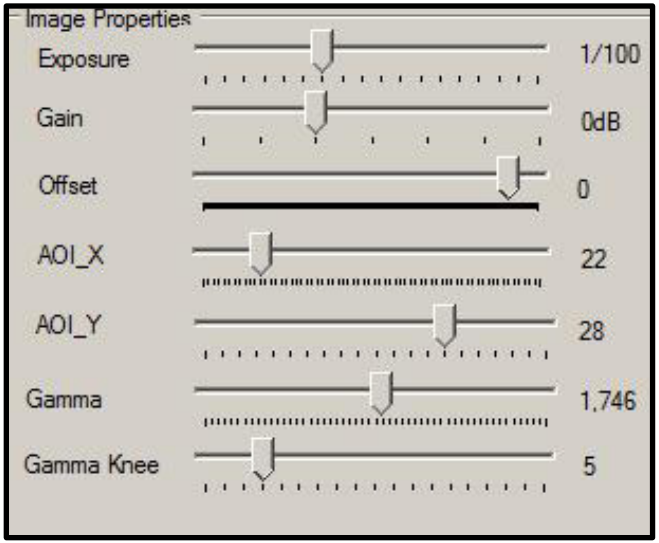
Keep in mind:
If you create Sync via IndiePOV in Master mode you have to switch on the Master at first (wait for 20 sec to boot). Then boot Slave. LED flashes orange after successful synchronisation.

SDI-Standard:
You have to choose altough already chosen.

HDR:
Ext Colorspace:
Offers increased dynamic range.
Not suitable for Live Broadcasting.

Mode-Selection:
Choose between YUV and RAW mode.

SAVE CONFIG after changements.

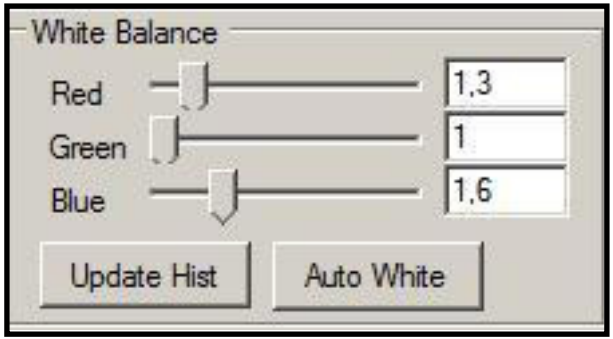


Standard-Settings:

Exposure: 1/100
Gain: 0dB
Offset 0
Gamma: 1,75
Knee: 5

DONT TOUCH
(those are pixel shifts on the Sensor)
AOI_X / AOI_Y
Standard X 22 / Y 28

SAVE CONFIG after changements.



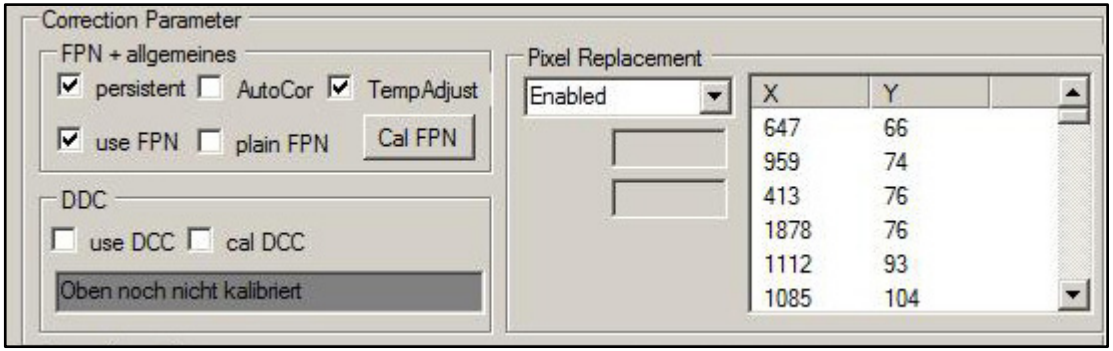
Standard-Settings:

5600K

Red	1,3
Green	1,0
Blue	1,6

3200K

Red	1,05
Green	1,0
Blue	2,0



FPN + General

☒ persistent ☐ AutoCor ☒ TempAdjust
☒ use FPN ☐ plain FPN

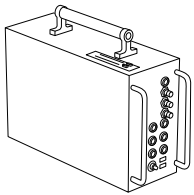
Black level balance:
- The camera has to have min 57°C.
- Close iris and cover.
- Select „Cal FPN“
- Balancing black level when LED is blinking orange
- indieGS2K-Remote responds when process has finished.

Pixel Replacement: Enabled

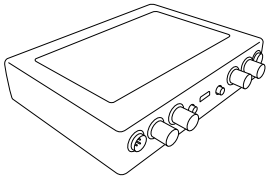
Automatic Pixel Replacement:
Select Auto-Correction in the Popdown Menu and press OK.

SAVE CONFIG after changements.

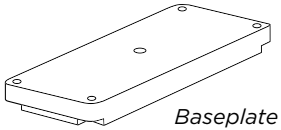
Shuttles & Recorders



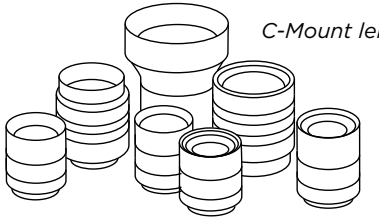
indieShuttle



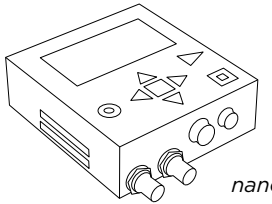
Gemini Recorder



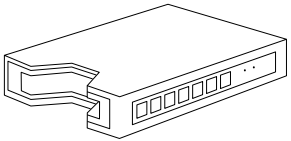
Baseplate



C-Mount lenses

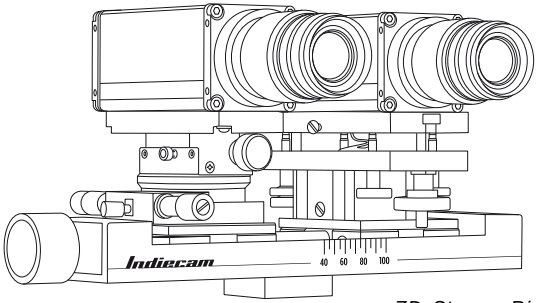


nanoFlash



Blackmagic Hyperdeck Shuttle

Indiecam Power Supply, Daisy-Chain Cable, ‚Loose-Ends' Power Cable, indieLCU (Lens Control Unit), indieRemote and many more



3D-Stereo-Rig

Indiecam

We build cameras.