

# APERTUS

open source cinema



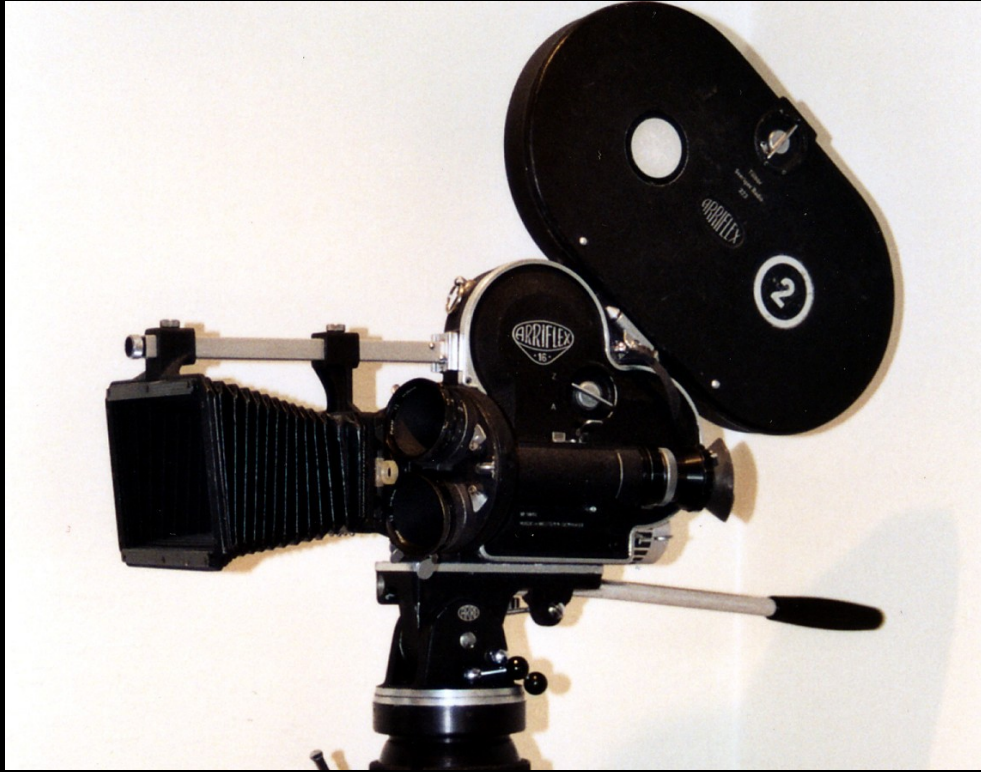
I grew up as a photographer in a dark room, and I miss the intimacy of watching the image slowly appear on the paper in red of the safe light.

The beauty of an open source camera to me is a step back toward the dark room, in which making the tools is part of the joy of making the art.

Lee Parker – IMAX Cinematographer

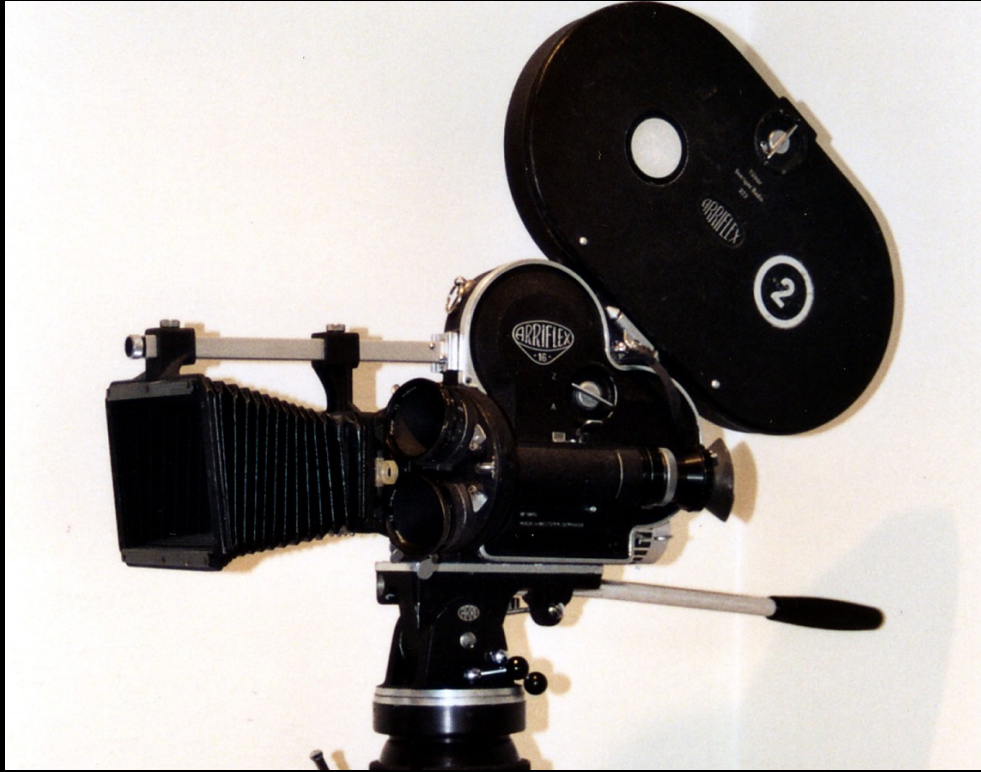
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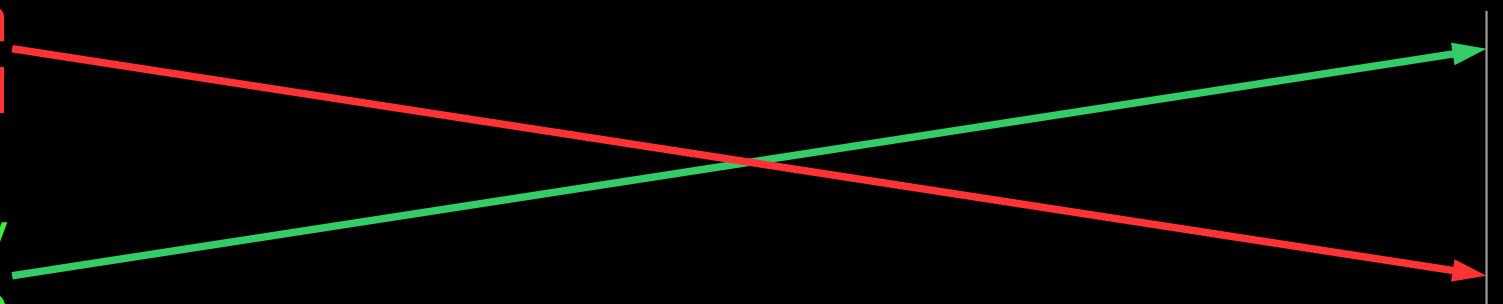
open source cinema



Freedom  
Control

Image Quality  
Film Experience

now



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The dilemma with current digital cinema cameras



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revolution

[www.apertus.org](http://www.apertus.org)

# APERTUS

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2006

Apertus is born around building  
an open camera for making films

2012

Movement

Ideology

Development

Collaboration





## What does "open source" mean for filmmakers?

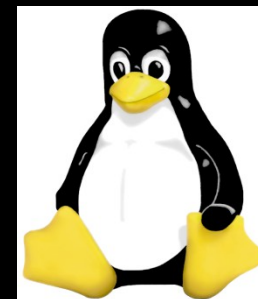
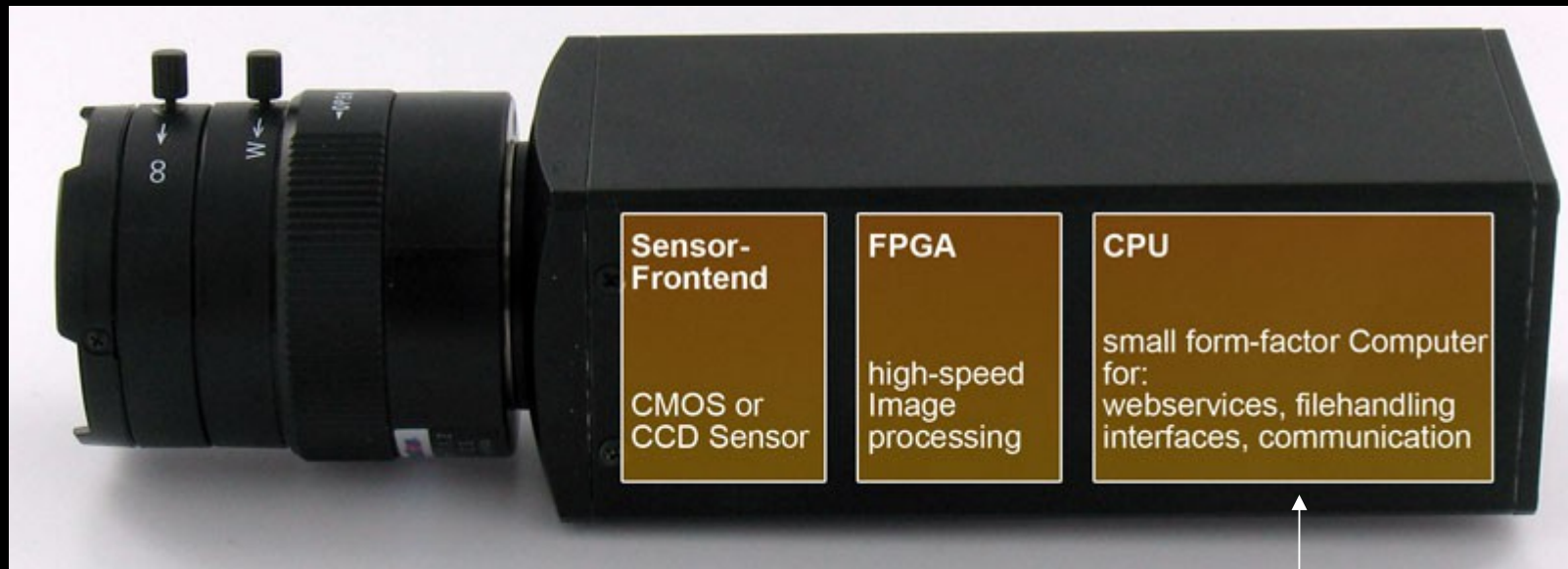
"I did however, become an Ubuntu user and wish Apertus the best of luck. If it is being written by filmmakers and artists alike and they listen and learn from the complaints about previous attempts, then perhaps there is hope. Digital cinema with all the supposed freedom it gives filmmakers, is perhaps the most proprietary art form going. I'm hoping these folks can change that."

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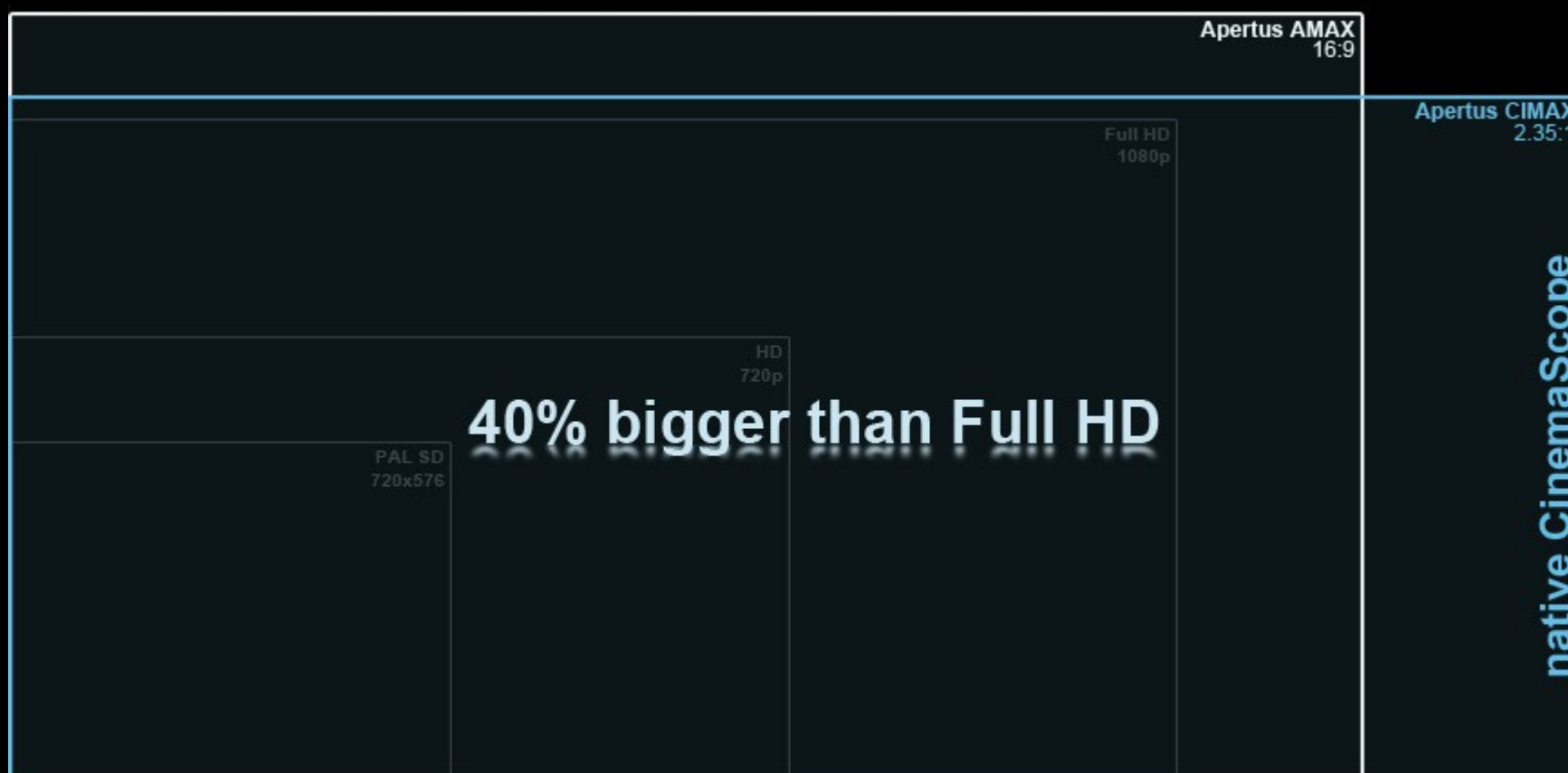
## Elphel NC353L







## Elphel353 Sensor: 5 Megapixel 1/2.5" CMOS





## Up to 80 Megapixel / sec Throughput

Standard	Resolution	Record Mode	max. FPS
Apertus AMAX 16:9	2224x1264	JP4 RAW	24
Apertus CIMAX 2.35:1	2592x1120	JP4 RAW	24.2
Full HD (1080p)	1920x1088	RGB	25.2
Full HD (1080p)	1920x1088	JP4 RAW	30.9
2K	2048x1088	RGB	23.9
2K	2048x1088	JP4 RAW	29.5
HD (720p)	1280x720 (2x2 binning)	RGB	46.2
HD (720p)	1280x720 (2x2 binning)	JP4 RAW	46.2
HD (720p)	1280x720	RGB	57.9
HD (720p)	1280x720	JP4 RAW	60
NTSC DV	640x480	RGB / JP4 RAW	126
NTSC DV	640x480 (3x3 binning)	RGB / JP4 RAW	82
NTSC 16:9	854x480	RGB / JP4 RAW	110
PAL DV	720x576	RGB / JP4 RAW	100
PAL DV	720x576 (3x3 binning)	RGB / JP4 RAW	66
PAL DV 16:9	1024x576	RGB / JP4 RAW	84

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Video Samples

Photographs

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4K Resolution

Super 35mm Sensor

Global Shutter

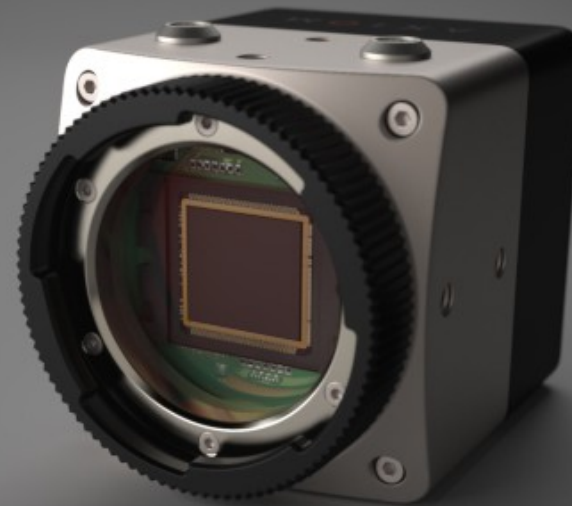
Up to 15 F-Stops Dynamic Range

High Speed at Full Resolution

Cinema DNG Raw Recording

Well below 10.000\$ Target Price

Crowdfunding this year



AXIOM

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New Partners: Motion Control, Lens Control



**APERTUS**  
open source cinema  
open cinema and open motion  
creativity without boundaries

Creating the Next Generation of Open-Source Cinema Tools

LEARN MORE 

Motion Control Timelapse Video footage

Creation of Apertus Company + Foundation

**APERTUS**  
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Thanks!

Any questions?