

RUBY

1k2 30FPS CLA for C-arms

Adimec
Excellence in Imaging



RUBY delivers full digital real-time 1k2 30fps imaging for Image Intensifier based medical X-Ray imaging systems.

RUBY is specifically designed to reduce costs in fluoroscopy C-arm systems compared to existing CCD based solutions, without compromising image quality.

RUBY's digital iris concept is patented (EP3110136, NL2015037).

CoaxPress[®]

Target



5 Megapixel Resolution



Low cost



True Global Shutter CMOS



Improve Image Quality



Frame rate 30 fps



Simplify install & service

Specifications

Image Sensor	Global shutter CMOS, low-noise high-dynamic range operated (73dB DNR)
Imaging format	1k2 (1024x1024) , 30FPS, 12bits/pixel progressive digital video via GigE, latency free pipeline
Triggering	Internal triggering (user programmable) / External triggering (via I/O)
Optics	Compact lens, aligned on sensor for optimal uniformity & MTF with 0% over framing, optical distortion correction
II compatibility	P20, P22G, P43 and alike compatible; fit to 25mm output window; fit to any brand via adaptor plate
Video interface	GigE Vision GenICam standard compliant / no power over Ethernet / RJ45 connector
I/O interface	Real-time I/O signals for synchronization (input/output) and dose control (ABC) / Molex 5018761440 connector
Power interface	Separate I/O, 10,8,... 26,8V DC, < 6W / Molex 5018761440 connector
Sensitivity control range	72dB max / Control by digital iris concept (1)
Adaptor plate (2)	Mounts CLA to II / adjustment image horizon, X-Y translation & fine focusing (3) / 2-set ND filter (factory config)
Embedded processing (4)	ABC (-15V .. +15V signal range) / AGC (multi modes) / Video measurement field / H-flip, V-flip
Image Black Level	User programmable, independent of gain settings
Serviceability	LED status indicators / Built In Test / Test pattern generator / Image overlays for adjustments
Dimensions CLA	Max outline circle diameter: 85mm / max height: 55.8mm
Dimensions adaptor	Max outline diameter mounting plate: 160mm / max height adaptor: 24.2mm
Weight	CLA: 375 gram / adaptor plate: 550 gram (5)
MTBF	> 120000h at 55°C [MIL-HDBK-217F] (no moving parts, no failures due to wear & tear)

(1) patented under: EP31103136; NL2015037

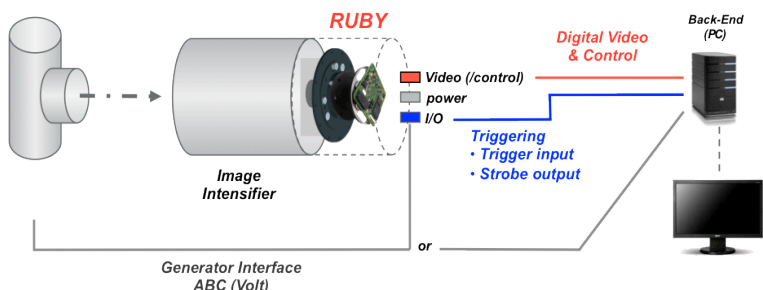
(2) adaptor plates are II-type dependent and facilitate reproducible & easy adjustments under any angle orientation of the C-arm.

(3) CLA is factory focused with 0% over framing. Fine adjustment focusing only needed to eliminate tolerances in II mechanics. No optical over framing adjustment needed during installation or service.

(4) ABC, AGC, Measuring Field are fully user programmable.

(5) EMC cover or aesthetic cover are not part of RUBY.

System Implementation Concept



CLA exploded view



For maximum image quality, performance, and reliability in demanding applications - Choose Adimec

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