



**Aviation
Systems**

MRCC

**Design, engineering, system integration and
production for civil & military airborne operations**



www.aviation-systems.com

MRCC & CCAC

ITAR free Cockpit / Helmet Camera

The MRCC is a CMOS, global shutter camera for cockpit operations. Designed to meet DO160, it can be used under harsh environment, as needed for flight test or critical missions; for business jets, fighters or helicopters. The sensor used (e2v 1.3M pixels, global shutter) delivers analog and SD SDI, non-interlaced video. With its double integration and high dynamic, MRCC can get from darkness to brightness without blooming / backlighting effect.



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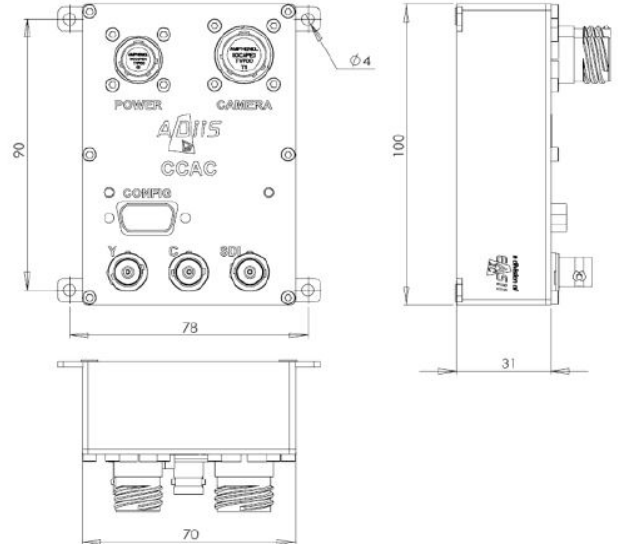
MRCC

product of EASii IC SAS



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Sensor	
Manufacturer	e2v
Type	CMOS global shutter
Size	1/8"
Sensor definition	1280x1024
Pixel size	5.3µ
Sensitivity	From 0,3 Lux, F 1.2
Shutter	1s to 1/100 000s
Automatic gain	Yes
Double integration	Yes
Video (both)	
Analog	PAL (720x576p)
Digital	SD SDI SMPTE 259M-C (720x576p)
Description	
Body	Anodized aluminium
Window	Sapphire
Dimensions	L 100mm, Ø 25mm (camera only)
Weight	350g (including CCAC)
Focal lenses	M12
Horizontal FOV	From 25° to 97° (depending on lenses)
Power management	
Voltage	9 – 36 volts DC (with CCAC)
Power	2 watts (typical)
Environment (designed to meet)	
Operation T°	-40°C to +70°C (DO160 section 4 cat A1)
Storage T°	-40°C to +85°C
Altitude	50 000 feet (DO160 section 4)
Acceleration	(DO160 section 4 cat A1)
Shock	(DO160 section 7)
Vibrations	(DO160 section 8)
EMI / EMC	(DO160 section 8)



Global shutter =
No « rolling shutter » effect



720x576p =
No « comb effect »



Double integration =
No Backlighting



CMOS Sensor =
No Smearing



Aviation-Systems GmbH are a distributor
of EASii IC



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