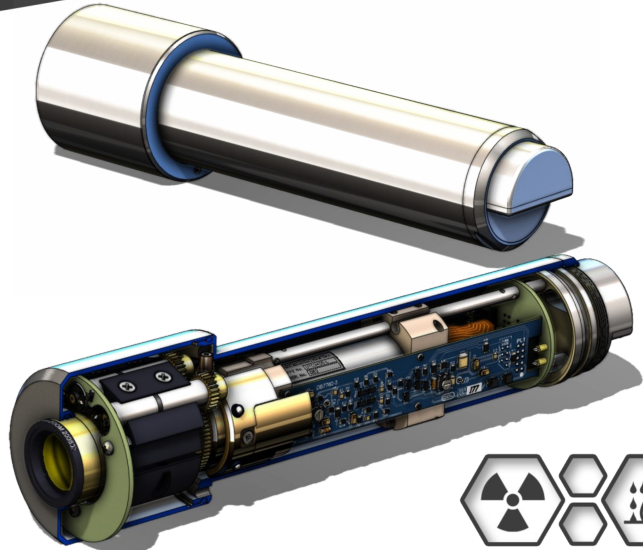


VHR SHORT PUFFIN RTC300 Series

Very High Radiation Tolerant Camera
Certified to 2.2MGy Total Dose.

FEATURES

- Resolution Up To 700 TV Lines
- Radiation Tolerance 2.2MGy
- 2/3" Imaging Tube Standard
- Electronic Beam Current Stabilisation
- Extremely Compact Form Factor
- Reduced Length
- Rack Mount, Desk Mount & Portable CCU's Available



DESCRIPTION

The Puffin series of Cameras were designed to have the highest radiation tolerance, in the smallest possible form factor.

Incorporating a 2/3" imaging tube, the VHR Puffin Camera utilises wide-band video processing circuitry comprised of critically selected, high grade, batch tested electronic components, to deliver unrivalled resolution and sensitivity over a wide spectral range. In the same manner, precision scanning circuitry combined with a unique, custom designed and built scanning coil, allow for excellent geometric reproduction, in the smallest of form factors.

By opting for a 'Split-Head' design, whereby only minimum circuitry is housed within the part of the Camera exposed to high doses of radiation, we have successfully been Certified by an independent test facility, that the VHR Puffin Camera will give excellent images and will withstand a total integrated Radiation dose of 2.2MGy.

One of the design goals for the Puffin Camera was to eliminate the requirement for regular adjustments throughout the life of the system, allowing engineers to simply use the system without concern for regular, and costly, maintenance periods. The beam current stabilisation circuit within the Camera, ensures that once set, no further adjustment is necessary, compensating automatically as the imaging tube's cathode emission declines with age.

The accompanying Camera Control Unit is available as a 2U rack-mounting module, a compact bench-mounting cabinet, or a Peli™ Storm case housed portable unit with an integrated high-resolution display, and built in recording to on-board storage. USB export options are available. The multi-core coupling cable is specifically designed and manufactured to offer high radiation tolerance, while being as flexible as possible.

Being a split-head design, the remainder of the camera drive circuitry is housed safely within the Camera Control Unit. Depending on the type of Control Unit supplied, various controls, inputs, and outputs will be available, but each type will always have the same core options in place. These include lens controls, such as Zoom, Focus, & Iris. Image controls, such as Manual Gain control, Lighting control, and Peak-Mean adjustment. An Integrated right angled cable entry provides the camera input, and video output is provided by two BNC connectors. A Genlock input is also provided as standard.

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TECHNICAL DATA

PERFORMANCE

VIDEO SIGNAL:	PAL, 625 lines or NTSC, 525 lines 1V composite to CCIR standard Black level clamp, variable gamma correction, aperture correction
SIGNAL/NOISE RATIO:	>40dB (Un-weighted)
RESOLUTION:	Up to 700 TV lines (Centre)
SENSITIVITY: (TUBE TYPE DEPENDANT)	>20 lux - Full picture quality with an F1.4 lens - Chalnicon/Newvicon >2 lux - At the limit of Automatic Gain Control - Chalnicon/Newvicon >200 lux - Full picture quality with an F1.4 lens - Vidicon >20 lux - At the limit of Automatic Gain Control - Vidicon
OPTICAL INTERFACE:	Internal 8-24mm motorised zoom lens

ENVIRONMENTAL

OPERATING TEMPERATURE:	0 to +50°C (short term up to 60°C)
RADIATION TOLERANCE:	Total dose 2.2MGy (Gamma), Dose rate 10kGy/Hour
INGRESS PROTECTION:	IP50

DIMENSIONS AND WEIGHT

CAMERA:	Ø40.5mm (Rear) x Ø54.0mm (Front) x 214mm Long, 3:1 zoom Weight 1.5Kg
CONTROL UNIT:	2U 19" Rack mount, 280mmD Desk mount case, 430mmW x 260mmD x 120mmH Portable Peli™ Storm case, 600mmW x 450mmD x 350mmH

INTERCONNECTION

CAMERA:	Integrated right angled cable entry
CONTROL UNIT:	Lemo 26 pole self-latching connector 2x Independent composite video outputs (75 Ohm BNC socket) RJ45 PELCO Control Interface (Optional)
INTERFACE CABLE:	Miniature multi twisted pairs, radiation tolerant - Approx. 8.5mm diameter

SUPPLIES

CONTROL UNIT:	Mains 100V/115V/230V - 50/60Hz
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WE RESERVE THE RIGHT TO CHANGE THE ABOVE DATA WITHOUT NOTICE

