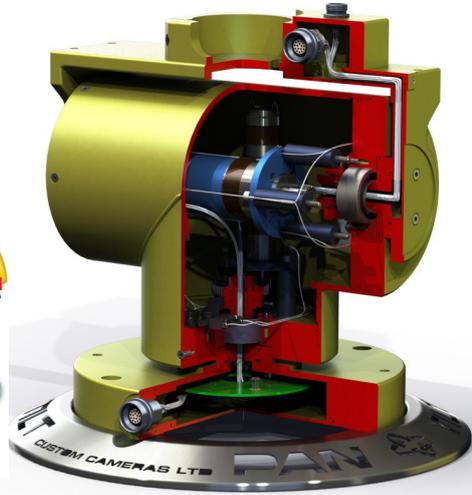
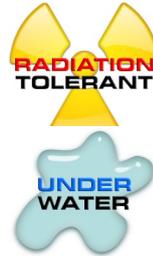


FEATURES

- Rugged, low backlash, sealed unit.
- Output shafts carried on double row ballraces.
- Adaptors for various cameras.
- Compatible with multiplexed control system.
- Available with vertical and horizontal camera mounts.
- Underwater or IP65 versions available.
- Optional positional feedback.



DESCRIPTION

This is a rugged radiation-tolerant unit designed primarily for use with the IRC400 series of cameras, though it may also be used with other TV cameras. The unit is normally sealed to IP65, but can also be supplied in underwater form, to IP68 for use down to 50 metres depth. The standard unit contains a demultiplexer/drive board to enable it to be operated from the pulses encoded onto the video signal which are standard in this series of cameras. Alternatively, when used with the Kingfisher series cameras, control signals are decoded within the camera, so that only relays are needed to operate the unit. The only additional cabling requirement is a 24V DC supply at approximately 0.5A for the drive motors. These are rugged, high-quality 24V DC motors employing rare-earth magnets and coupled via planetary gear heads to the final output gears, giving very low backlash and preventing back-driving. The output shafts of the unit are carried on double row ball-races for strength and stability. The unit can carry loads of up to 8 Kg, and both pan and tilt speeds are approximately 7.5°/second.

The input connector is carried on the mounting base of the unit and the connections to the camera and lighting assembly are carried on the “up and over” platform to minimise external cables.

Adjustable stops are provided, accessible from inside the unit.

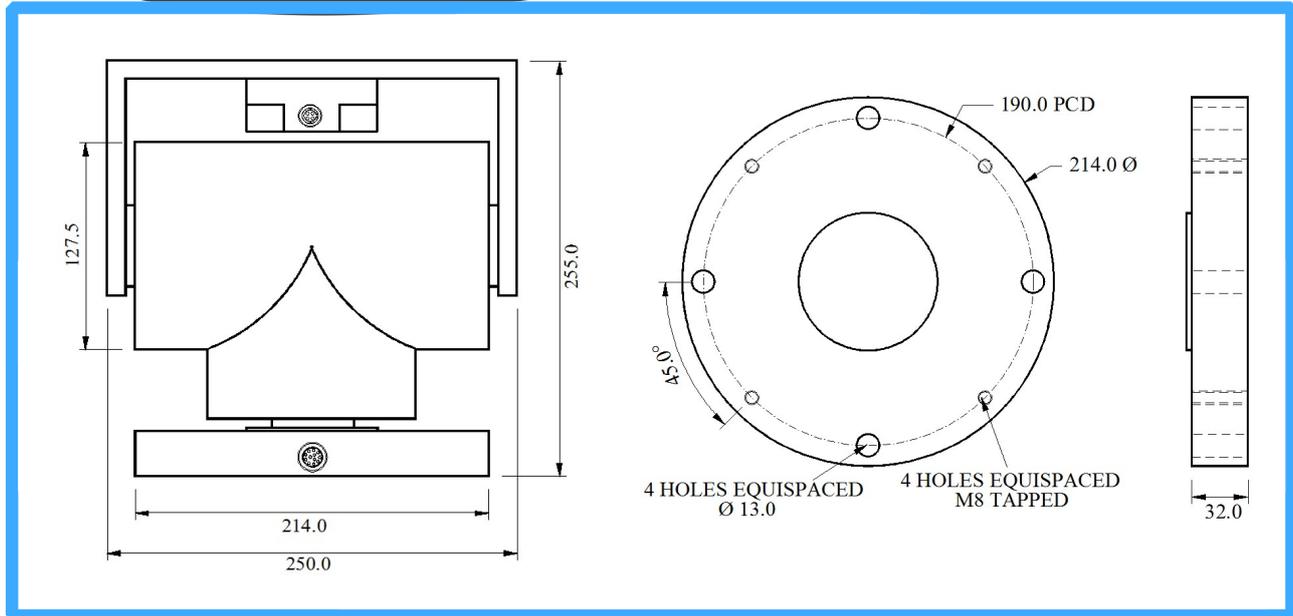
The unit contains a voltage regulator providing 12V DC for the camera from a range of input voltages from 12.5 – 22V; it is normally connected so as to act as a link between the incoming multi-core cable and the camera and lighting unit (if fitted).

The standard unit is manufactured from black anodised aluminium alloy, but for underwater use, a stainless steel version is available.

The unit is usually fitted with a substantial mounting base for stability, with both tapped and clearance holes to allow a variety of mounting options. The details of this may be varied to suit customer requirements.

CUSTOM CAMERAS LTD

Radiation Tolerant & Scientific Camera Systems
Product Development & Manufacture



TECHNICAL DATA

PERFORMANCE

PAN MOVEMENT:	Approximately 360° with adjustable stops
PAN SPEED:	60 seconds for 360° rotation (6° per second)
TILT MOVEMENT:	±90° with adjustable stops
TILT SPEED:	30 seconds from vertically up to vertically down. (6° per second)

ENVIRONMENTAL

OPERATING TEMPERATURE:	-10° - 50° C Humidity 85%
RADIATION TOLERANCE:	Total dose > 7 x 10 ⁵ Gy (Gamma), Dose rate > 10 ⁴ Gy/Hour
INGRESS PROTECTION:	IP65 or IP68, 50 metres

DIMENSIONS AND WEIGHT

DIMENSIONS:	Height 381mm (with camera in place) Width 250mm over platform excluding cables and connectors Mounting base 214mm Ø (can be varied to suit requirement)
WEIGHT:	10.5Kg
LIFTING CAPACITY:	15 Kg. Max.

INTERFACING

CONNECTORS:	Underwater Lemo connectors
MECHANICAL FIXINGS:	See drawing above
ELECTRONIC CONTROL:	Remote pulses generated in CCU decoded by internal demultiplex board
SUPPLIES:	Normal: 24V DC @ 250 ma max per channel. Speed control possible by variation of voltage in CCU

WE RESERVE THE RIGHT TO CHANGE THE ABOVE DATA WITHOUT NOTICE