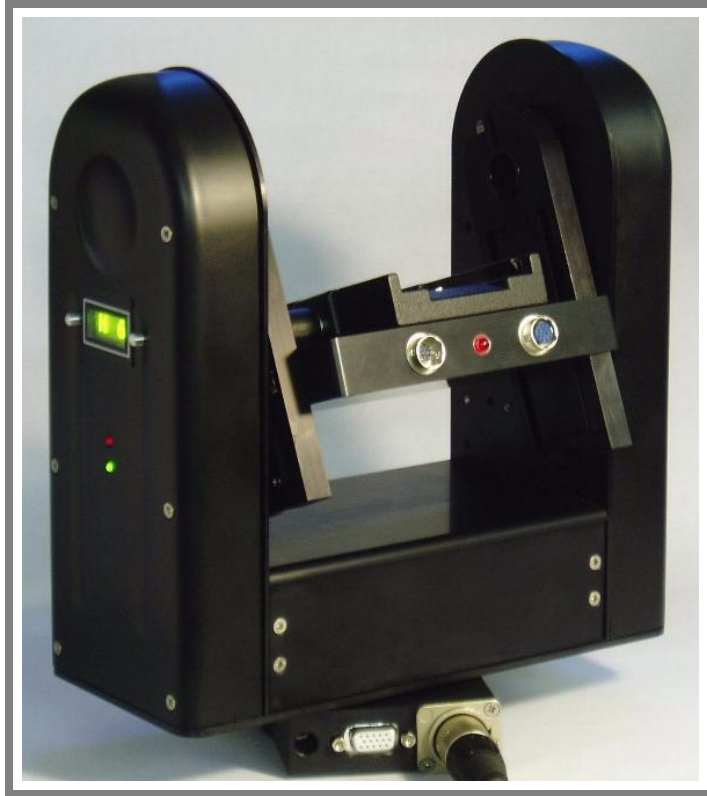


U4 & U5_HD - Remote Head



- Slim Profile
- Lightweight - 3.4kg
- Loads up to 10kg
- Compact or Tall options
- Slip Rings
- Integrated Camera PSU
- Camera & Lens Drive
- Clutches
- Radio data control option
- HDSDI slip ring option*

The **U4_HD Remote Head** has been designed to accommodate the emerging range of HD and SD remote cameras. eg; Ikegami HDL40, Sony HDC-300 & 310, Hitachi DK-H31, Panasonic AK-HC1500, JVC KH-F870U and others.

The **U5_HD Remote Head** is functionally identical but taller and wider to accommodate standard size cameras or to give full tilt flexibility with the cameras above. Both versions have a slim profile and yet are powerful, smooth and fully featured.

Mechanics

The mechanics are very precise with extremely low backlash. Clutches are fitted on both axis to aid rigging and protect the servo gearboxes from damage. The tilt clutch is externally adjustable to aid camera balancing and has a hollow shaft to allow cable routing. The unit can be C of G balanced for perfect control.

Sizes

The **U4_HD Remote Head** has a bigger brother - the **U5_HD Remote Head**. Both can be mounted inverted but the **U5_HD** allows full downwards looking camera angles with cable clearance between the camera back and the stirrup. The **U5_HD** is taller and wider and can also accommodate larger cameras.

Data Control

Data is sent using RS485 which allows ranges of over 1km on twisted pair cable. For camera control this is converted to the appropriate camera protocol inside the head for communication with the camera. This can be RS232, RS485, LANC or many other standards.

Up to 10 heads can be 'daisy-chained' on the same data cable and up to 64 heads can be supported on a system.

Radio Control

Two optional radio data receivers can be fitted internally on independent frequencies for radio control. This technology has been fully tested and delivers trouble-free operation on many other units around the world.

Camera & Lens Control



Various camera and lens protocols can be programmed into the **U4_HD** enabling full remote control over the single serial data link.

Two 12 pin Hirose lens control sockets are fitted on the front of the camera support saddle and a 9pin and 15pin D plug are fitted on the rear. This arrangement ensures that the camera and lens cables do not interfere with the movement.

A tally light is fitted to the front with additional outputs on the rear. There is also provision for LANC control via the 9pin D socket. Internally, drivers are

provided for digital lens control and can be routed to the lens control sockets.

On the side of the unit is an LED display showing status information and settings. This usually displays the head ident number but also shows other information, eg: voltage, radio frequency, errors, etc. Various settings can be changed using the buttons on this display.

Slip Rings

If required there are 14 slip rings available for camera power, outputs and communications. These are provided via the 15way Dplugs on the saddle and base. Independent of these however, is a 12v @ 2A camera power supply built into the head. This enables operation of the head and camera from a single, 12 - 24v power supply.

Multiple Heads

Up to 64 remote heads can be operated on a single system with up to 4 controllers. Our data router takes care of operator priorities and can be set to the user's preference.

Preset Positions

Up to 32 preset positions can be stored and recalled. Each position includes, Pan, Tilt, Zoom and Focus positions. Once stored, the positions are saved during power off and are not lost even if the head is moved using the slipping clutches. Pan and tilt limits can also be set by the user.

HD SDI Operation

For HD SDI output there are 3 options;

1. The optional HD SDI slip ring path.*

This is an additional option which enables continuous 360 degree pans whilst passing the HDSDI from the camera through the slip rings.

2. Passing a cable through the hollow shaft in the clutch side.

A hollow shaft is provided for routing cables to the camera if required. For applications which do not require continuous 360deg. pans this is a simple option.

3. Using HD component outputs and converting after the slip rings.

Many cameras have an HD component output which can be passed through the slip rings. Converting this to HD SDI immediately after the slip rings offers another solution to continuous 360deg pans whilst maintaining the full HD quality.

Support Equipment

There is a full range of additional equipment available to complement any remote system;

Data repeaters, Data Splitters, Joystick Controllers, Camera RCPs, Data Routers, Auxiliary Interface units, Radio Data Transmitters, etc.



Multi Function Controller

Specifications

Weight:	U4_HD:	3.4kg
	U5_HD:	4.0kg
Capacity:		10kg
Dimensions:	U4_HD:	W 222mm, H 250mm, D 98mm Max camera width 128mm
	U5_HD:	W 244mm, H 350mm, D 98mm Max camera width 150mm
Power:		12- 24v @ 0.25A (idle) + Camera requirement
Data:		RS 485, twisted pair, 1000+ metres (without repeaters) Radio 433Mhz, 400metres
Speed:		From 0.1deg/sec to 150deg/sec depending on fitted servos Fully proportional control.

* available Sept 2007

Specifications subject to change without notice