



REMOTE HEADS

## ACS SMARHead™

**Exclusive to ACS, the SMARHead™ is a highly versatile compact remote head, created to provide a comprehensive robotic camera solution for high quality broadcast applications delivering in HD and UHD.**

Designed and developed in-house, the widely acclaimed ACS SMARHead™ remote head family includes a range of advanced features that are key to an efficient workflow in today's production environment. With an array of mounting hardware available, SMARHead™ is fast to rig, features diverse control functions and is highly configurable for different applications.

SMARHead™ primarily makes use of the Sony HDC-P50 (UHD/HDR/HFR) and Sony HDC-P1 (HD) broadcast standard brick style cameras. This considerably reduces the length and weight versus standard hand held cameras and therefore provides a much more compact 2/3" HD/UHD remote solution. In addition SMARHead™ supports Canon and Fujinon serial digital lens protocols and automatically identifies lens make and model.

This unique remote head solution is optimised for multi-camera remote use with facilities such as a dedicated video router that is control integrated so that operator preview from multiple cameras can be managed efficiently.



SMARHead™ with 40x lens

When combined with the large lens cradle adaptor, SMARHead™ can carry a Canon HJ40 with excellent performance across the full focal length of the lens. Additional extensions can also be fitted to the yoke to achieve full look down in 'hanging' mode.

### SMARHead™ features include:

- Single operator and shared multi-camera control capability
- Programmable shot box for repeat moves and positions
- Microprocessor controlled direct drive motors ensure excellent control performance

- Single SMPTE fibre cable per camera for video/power and control with additional options such as audio transmission and return video
- Highly configurable production rack housing base stations, routers and power with various outputs available
- Utilises standard camera remote control panels (RCP)

The latest addition to the SMARHead™ family is the SMARHead3™. Created to fulfill the growing demand for a compact remote head system SMARHead3™ is capable of handling a much wider range of camera and lens combinations whilst maintaining the range of control features, reliability and high performance standards associated with ACS SMARHead™ technology.



SMARHead™ with box lens

### SMARHead3™ key features include:

- Highly versatile and capable of handling a varied range of remote head applications e.g Beautycams, 2/3" box zoom lenses (Canon 25x, 86x, 100x), large lens format digital film cameras (e.g Sony F55)
- Environmentally sealed for protection in adverse weather conditions
- Compact, low profile design minimises space requirements and potential line of sight issues
- Remote switching of lens features e.g. lens doubler, lens stabiliser etc
- Extremely high control performance even when fully zoomed in with a 100x lens (with doubler)





### SMARHead™ Additional features

ACS has developed a SMPTE powered fibre adapter that provides SMARHead™ power, data control and all camera services such as HD-SDI transport and gen lock. This can operate with all SMARHead™ systems including the large lens option and represents a single cable solution. The consolidated cabling infrastructure improves reliability and reduces rig time and installation costs onsite.



- Case can be located up to 15 metres away from the SMARHead™ camera position
- Tactile push button switches for 'go now' functions

### CCU and RCP

- Each channel offers camera control via fully featured RCP, multiple HD SDI outputs, down converted SDI and composite outputs, genlock inputs and distribution
- Can be supplied as a single channel or as part of a multi-camera remote set-up
- Fibre base stations configured as full function camera CCU's, integrating the SMARHead™ functions and offering industry standard breakouts (XLR-3 & 26 way multi) for ancillary functions such as audio & data camera power control



SMARHead™ systems can also provide highly accurate positioning data for custom graphics AR applications and the latest generation desks feature IP control capability for remote control over Ethernet networks (remote production).

### Camera Types

- Standard SMARHead™ with Sony HDC-P50 or HDC-P1 box camera and full servo Fujinon or Canon HD lenses
- Alternative options are available on request (subject to application) including Sony HKC-T adapters for HDC-2500 as well as Ikegami HDL-51 and GV LDX C86 brick cameras. Further custom types include Sony F55 and Alexa with PL mount remote servo lenses e.g. Fuji Cabrio series

### Control Desk

- SMARHead™ control desk represents a significant step forward in multi-camera control
- High quality force sensitive joysticks employed for pan/tilt functions
- Force sensor used in a unique arrangement for zoom control
- Sophisticated active matrix OLED touch screen display incorporated as the primary user interface for set-up
- Tactile push button switches for 'go now' functions
- All traditional controls associated with remote head desks provided in a manner familiar to operators
- High performance Pan Bar control system option utilising a Vinten 430i head, Canon lens demands, OLED display and SMPTE fibre solution



### Multi-System Production Base Stations

- Base stations available as standalone 3U half width racks or in multi-camera systems 4 channels are racked in 19" flight cased sleeves
- Additional built in features such as a dedicated HD switcher for handling operator previews synced and set up via the SMARHead™ desks
- Configurable Evertz Multi-Viewer, internal mains distribution, tail-board style BNC patch panel, utility spaces, extensive audio and data connectivity
- SMPTE power provided via Telecast HDX
- Can be positioned individually or as quad-racks independently of the base stations
- Offers real versatility in cable planning for all types of temporary installation offering industry



### Fibre Transmission

- Highly flexible and versatile powered fibre transmission system utilises standard SMPTE 311 cabling for easy integration into OB or fly-away applications
- Single cable solution provides: head power, control data, camera power, RCP data, HD SDI transport, genlock, GPI/O, 4 channels of 24bit EBU/AES analogue (bi-directional) audio and remote head/camera power control



### Mounting Hardware

- A wide range of mounting hardware that includes self supporting adjustable stands with variety of bases and column heights from 500mm to 4 metres are available
- Many other mounting options exist including a circular heavy duty base plate that permits very close to the ground/ floor positions to be achieved with a very small footprint

