



Special Cameras

Special Cameras



OmniCam

hymotion

underwater

miniCam

miniJib



Special Cameras



SUSPENDED CAMERA SYSTEMS WITH AUGMENTED REALITY



3D CABLE CAM SYSTEM



LIGHTWEIGHT 3D CABLE CAM SYSTEM



2D CABLE CAM SYSTEM



DROP WIRECAM SYSTEM



4Sky is one of the most amazing and dynamic camera system available today to enhance the coverage of your spectacular events.

Using a four-cable suspended system that enables a camera to move dynamically across a sports field, arena, or concert stage from virtually any spot or angle, flowing freely vertically and horizontally through a pre-defined indoor or outdoor space.



With Augmented Reality built-in we can provide astonishing graphics interaction. From ground level to dizzying heights delivering perspectives unavailable to conventional cameras.

omnicam4sky.tv

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SUSPENDED CAMERA SYSTEM



4Sky System Overview:

- Stabilized camera head
- Panasonic 4K AK-UB300 camera / Sony P50 / P31
- Canon 4K CJ12x4.3 lenses
- Remote OCP camera control
- 4 Winches
- 4 Pulleys
- Control station
- Two intercom positions
- Optical fiber cables
- All signals delivery at OBVan

Gyro-stabilized Camera Head:

- 4 stabilized axis
- The camera head is passive stabilized by gyroscopes, and active stabilized by electronic IMU devices (inertial measurement unit)
- Max. speed up to 10m/s, limited to 8m/s
- 6 function control
- Pan, Tilt, Dutch Roll, Zoom, Focus & Iris
- 4K, HD-SDI, Data, Camera control by optic fiber

4 Pulleys:

- 3 Axis free movement
- High-end design

4 Winches:

- Winches can accommodate 400m of cable
- Aramid fiber optic cable with 980Kg tensile strength
- Two independent circuits, one for control, the other for safety status monitoring. UPS powered.
- Two independent brakes
- Four intelligent monitoring sensors
- Power: 3x380V, 16A

Control Station:

HARDWARE:

- PC Work Station
- 3x monitors
- UPS
- Two remote control panels; for 3D movement & for camera control

SOFTWARE monitoring & set up views for:

- Camera head
- Winches
- Motors
- Controllers
- Overall system behavior
- Pre-set memories and paths motion control for 3D movement
- Full control over camera head travel and cables limits, including 3D solid construction for anti-collision.
- Augmented Reality; Astonishing graphics interaction.

4Sky was selected for the football season of the following leagues:



Portugal



Spain



France



Saudi Arabia



United Arab Emirates



Greece



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DOLLY
SIZE



STRONG
WINDS



ADVANCED
SOFTWARE



AUGMENTED
REALITY

System Overview:

- New Patent Pending Omnicam4Sky suspension technology
- Stabilized camera head
- Z-Cam E2 / BlackMagic MS 4k-3G cameras
- Olympus M.Zuiko Digital ED 7-14mm f/2.8 ED 12-100 f/4
- Remote OCP camera control
- 4 Winches
- 4 Pulleys
- Control station
- Two intercom positions
- Optical fiber cables
- All signals delivery at OBVan

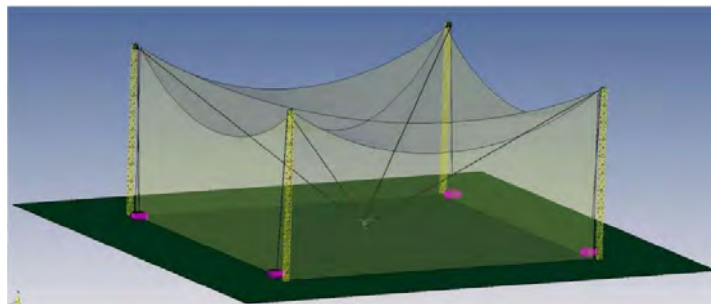
Stabilized Camera Head:

- 4 stabilized axis
- Camera head with active electronic stabilizer plus IMU devices (inertial measurement unit)
- Max. speed up to 6,1m/s-22Km/h, limited to 8m/s
- 6 function control
- Pan, Tilt, Dutch Roll, Zoom, Focus & Iris
- 4K, HD-SDI, Data, Camera control by optic fiber

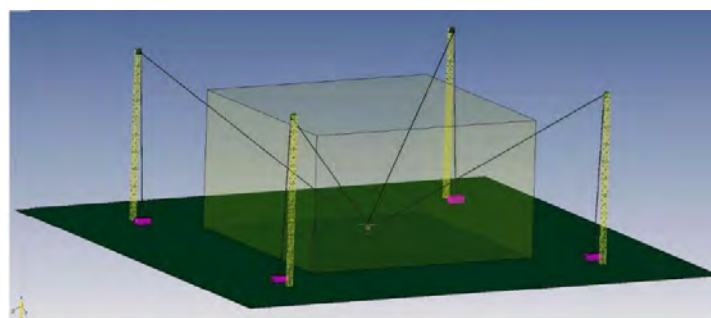
4 Pulleys:

- 3 Axis free movement
- High-end design

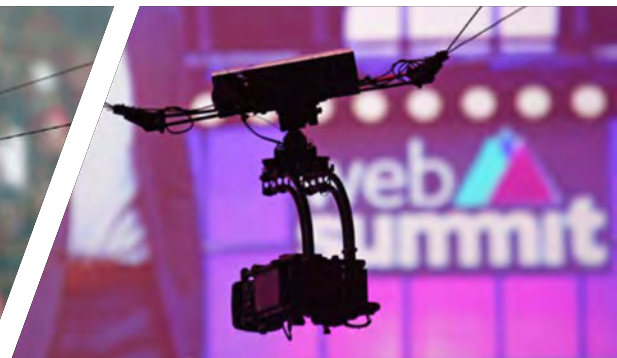
New Flying Area



New Patent Pending Omnicam4Sky suspension technology
-standard in 4Sky Lite - optional in 4Sky



General Systems





2D CABLE CAM SYSTEM



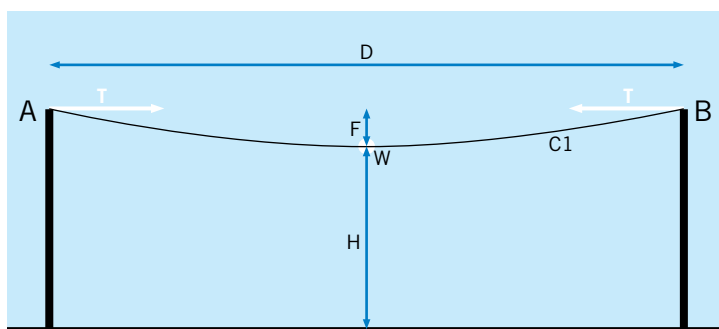
2Sky 2D Cable Cam System

Point to point suspended system with 3 axes gyro-stabilized remote 2Sky system uses the same programmable control and set up as 4Sky, but only with 2 winches and 2 pulleys.



2Sky installation and suspension forces

The camera could move freely in the 2D space between ground, point A and B. Sole limitation in catenary midpoint (F)



DROP WIRECAM SYSTEM



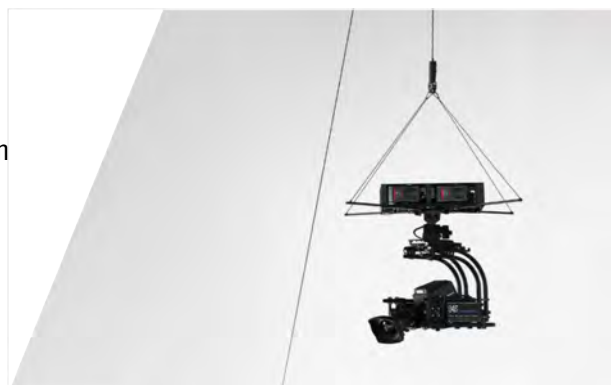
Drop Wirecam System

Stabilized remote camera head

The system uses the same programmable control and set up as in 4Sky and 2Sky systems, but only one camera operator with control pedal for up/down motion.

The suspension cable carries fiber optic communication.

Suitable for indoor use only





04S DATA GUIDELINES FOR AR

The 4K camera and lens used are Panasonic HC-UB300 & Canon CJ12x4.3 or alternatively CJ14x4.3

Data structure:

TIMESTAMP / NA / NA / X / Z / Y / Pan / Tilt / Roll / Zoom / Focus / Iris

In a live environment, there are 50 data-grams per second locked onto our video, so it could use external gen-lock but it is not a "must".

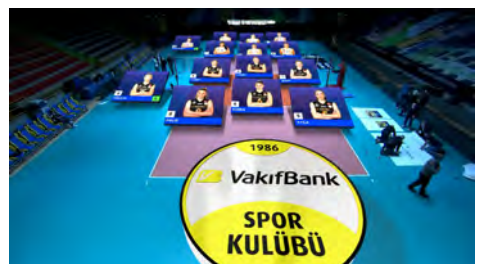
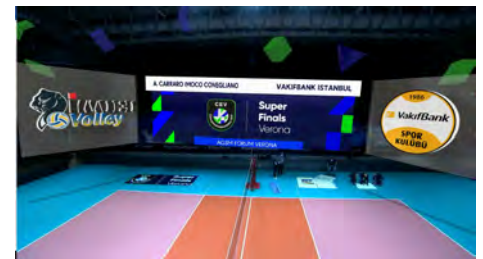
Data is sent by UDP, Free-D protocol, only D1 type frames are sent.

As per our experience, the data is delayed 4 to 6 frames when reaching the engine.

If data and video are inserted and processed in the engine itself there are no need for video delay, and is the data that have to be delayed in the engine. (the video is highly delayed in the engine so data has to be delayed)

If fill & Key is sent to Video Mixer together with our video stream an external video delay has to be used for 4 to 10 frames.

A screen and software package with all data info and options is available at 4Sky operation position, so the data stream could be monitored and corrected without any intervention from graphics station desk.



O4S- Suspend system family

				
				
	1Sky	2Sky	4Sky	4Skylite
DESCRIPTION	One Point Suspended. Up and down movment	Two points suspended. 2D movement Vertical/Horizontal	Standard 3D system	Lightweight & light budget four points suspended system
WORK AREA / WORK LENGHT	unlimited (+180m) Vertical	300m Horizontal	Std 180mx180m Double winding 350mx350m	Std 120mx120m Double winding 250mx250m
MAX. SPEED	10m/s - 8m/s 36Km/h - 29Km/h			6,1m/s -- 22Km/h
CAMERAS	4K Panasonic UB300 - SONY P50 3G SONY P31			4K/3G Z-Cam E2 BlackMagic MicroStudio
LENSES	4K Canon CJ14 14x4.3mm Canon HJ14 14.4.3mm			HD Olympus M.Zuiko ED 7-14mm f/2.8 ED 12-100mm f/4
CAMERA RCP	Panasonic HRP1500 SONY RCP-3100/3500			O4S RCP003
OBS	Indoor use only. Replace towercam systems, higher working level, with no ground footprint			No one point suspension available
Comments	Full vertical travel, under pulleys position - from pulley position to floor level.			



Special Cameras



OmniCam

TRACK CAMERA SYSTEM

The OmniCam Track Camera System is a remote-controllable dolly with camera head.

The 11cm narrow-gauge aluminum rail guides the camera smoothly and safely, both along straight runs and around curves with a minimum radius of just 150cm. The OmniCam Track Camera System is also designed for suspended mounting.

A digital control panel operates the dolly. Automated moves can be programmed, or the system can be controlled via a joystick and foot pedal.

Whether ground-mounted or suspended, the low gauge saves you time and money when setting up and transporting. Rail profiles for various lengths and curve radiuses are available.

System can be driven by rope, with inner core fiber optics and batteries, allowing operation without any visible cables.

Capturing unique perspectives from angles unreachable by conventional handheld, tripod, or full-sized remote-controlled camera support systems.



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04S[®]

Special Cameras



hymotion

HYPERMOTION CAMERA SYSTEM

miniCam SSM500 up to 500 fps



Phantom V series up to 2600fps



04S's HyMotion system offers an unprecedented level of convenience and creativity. Further to providing high frame rate speeds, it offers superior flexibility and integration into broadcast operations, with a range of features and ease of use optimized for strict broadcast schedules.

In sports productions, when the game goes into high gear, HyMotion keeps up, giving you 100 times slower-than-live action with instant replays.

Its superior performance, clever design, and breathtaking image quality, extend the range of ultra-slow-motion applications.

Key Features:

- Use on Sports, Films, Commercials and Documentaries
- Up to 2.600 fps Phantom V series
- Dual output - can be used as a live camera as replay happens
- Runs from single SMPTE fibre cable
- Single-channel usage on any disk record
- Use any B4 or PL mount

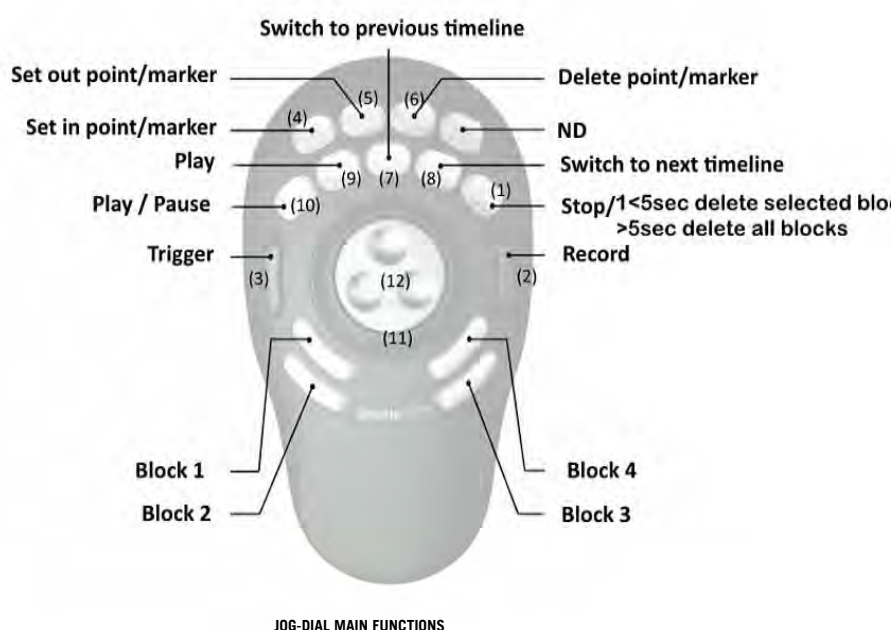
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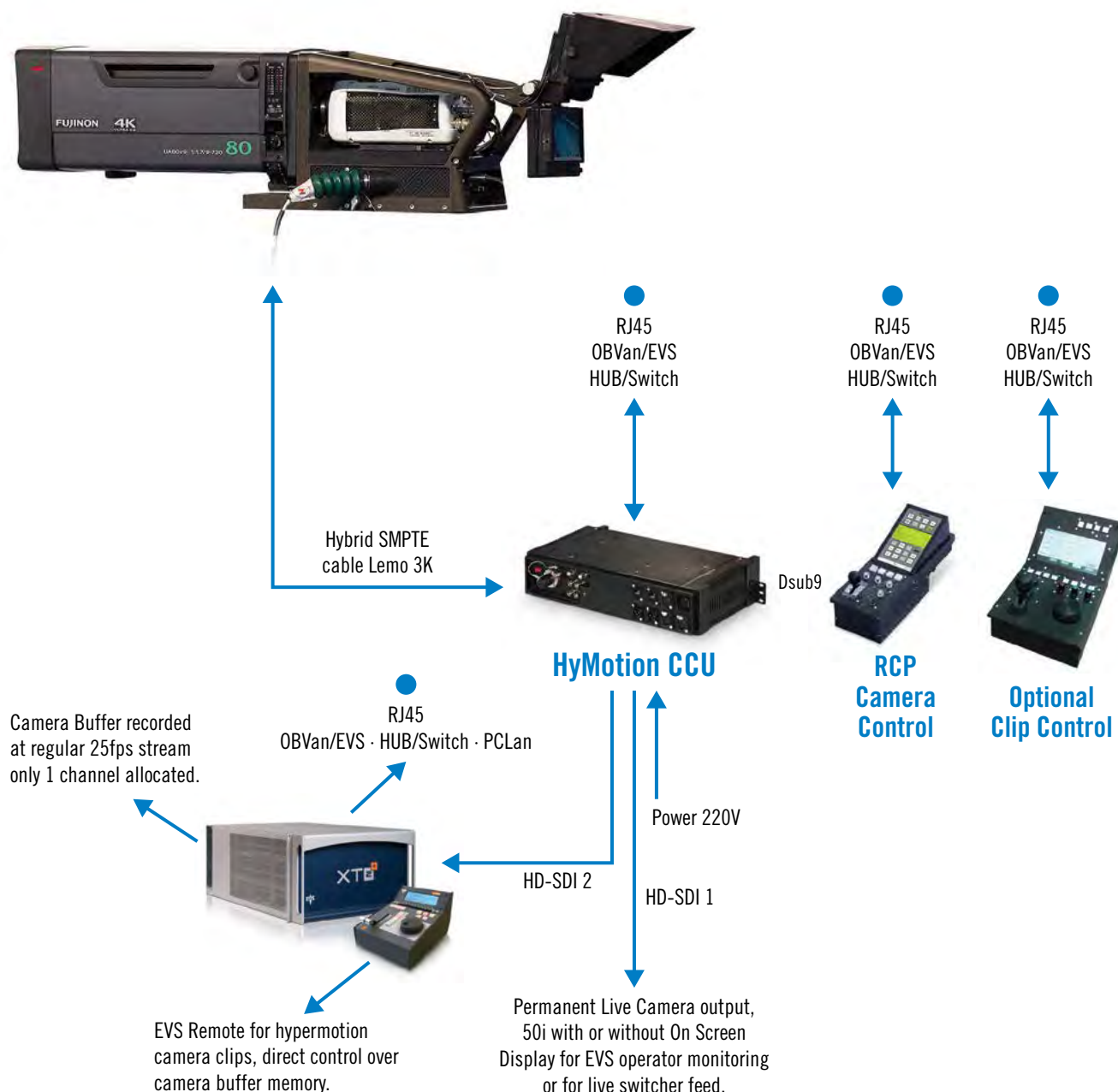
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SSM500 connection diagram



Configuration scheme:





Special Cameras

miniCam

The MiniCam X5A system & X5C standalone camera can be used in a variety of applications, such as InGoal and BeautyShot Cameras.

With custom-made rig and signal transmission solutions, O4S delivers HD SD-SDI 3G video signal pictures from special angles with fully remote-controlled cameras.



O4S offers a package with unbelievable picture quality that suits all the needs that can be met with this type of camera:

- Horizontal field of view (HFoV) from 50° to 129°
- Camera picture remote control (X5A + X5C) or joystick local menu (X5C only)
- Remote iris control (X5A) or manual (X5C)
- Machined aluminum case protecting lens and camera
- Ruggedized connectors with only one cable for all functions

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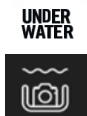
10. Full Specs X5A / X5C / X5A₂ /X5C₂

		X5A ₂		X5C ₂		X5A		X5C		
Image Sensor		1/ 2.8” Megapixel Sony Exmor CMOS Sensor								
Scanning System		Progressive, Interlace								
Total number of pixels		1952 (H) x 1116 (V)								
Lens Mount		C/CS Mount								
Video Output Mode		HD-SDI: 1920X1080p (30/25fps), 1920x1080i (60/50fps), 1920x1280x750p (60/50fps) 3G-SDI: 1920X1080p (60/50fps)								
Sync. System		Internal								
Genlock		N/A								
Video Output Level		HD-SDI, 3G-HDI (Level A)								
Min. Illumination		Color: 0.2Lux @ F1.2 / B/W: 0.01@F1.2								
Shutter		Auto / Manual (1/30~1/50,000 & x2~x30)								
White Balance		ATW/AWC – Set/ Indoor/ Outdoor/ Manual								
Gain Setting		AGC 1-15 Level, MANUAL 0-100 Level (Deafault 40)								
Auto Exposure Detection		4 Areas, 4 modes: Off / WDR / BLC / HSBLCL								
Flicker Cancellation		FLK – Shutter mode								
Detail		0~15 Level								
Color Correction		YES								
Color Saturation Adjustment		YES								
Noise reduction		2D, 3D								
Gamma Correction		YES								
Master Pedestal		YES								
Pedestal (R,G,B)		R, B								
Color Balance		R, B								
Pixel Defect (dead pixel compensation)		3 modes: real time, static point, black points								
D-WDR/ACCE wide Dynamic Range		Low / Middle / High/ Off, 0~15 steps								
Image Flip		Up/ Upsidedown / Mirror / V-flip / Rotate / D-Zoom / NEG.IMAGE								
Camera Control Options		Remote RCP		Remote RCP/ Local OSD		Remote RCP		Remote RCP/ Local OSD		
Varifocal Lens		2.8 - 8mm (2.8x)				2.2 - 6mm (2.7x)				
Iris Range		F1.3 – Close								
Operation	Zoom	Manual								
	Focus	Manual								
	Iris	Motorized remotly (RCP002)			Manual		Motorized remotly (RCP002)			Manual
Field Angle (HxV)	H	120° 00’ (W) - 46° 26’ (T)				112.4° (W) - 38.8° (T)				
	V	91° 36’(W) - 34° 59’ (T)				81.3° (W) - 29.1° (T)				
Focus Range		∞ - 0.3m (wide: ∞ - from Front of Lens)								
Resolution		3 Megapixel, Exceeds 1920 x 1080 HD Cameras								
Object Dimension At M.O.D. 16:9	WIDE	1324 x 479								
	TELE	293 x 158								
Operating / Storage – Temperature		-5°C~+ 50°C (Humidity: 0%RH ~80%RH) -20°C~+ 60°C (Humidity: 0%RH~90%RH)								
Power – Consumption		DC12V @ 4W		DC12V – 24V @ 3,3W		DC12V @ 4W		DC12V – 24V @ 3,3W		
Dimension (LxWxH)		142mm X 63mm X 52mm		114mm x 59mm x 48mm		142mm X 63mm X 52mm		114mm x 59mm x 48mm		
Weight		320g		210g		320g		210g		

miniCam X5U underwater

Designed for stand-mounting and hanging in a wide variety of applications, the X5U mini HD camera, is the professional solution for capturing crisp video in true color, suitable for use in broadcast events.

X5U, its the perfect choise for underwater environment to a maximum of 3mts depth



CAM

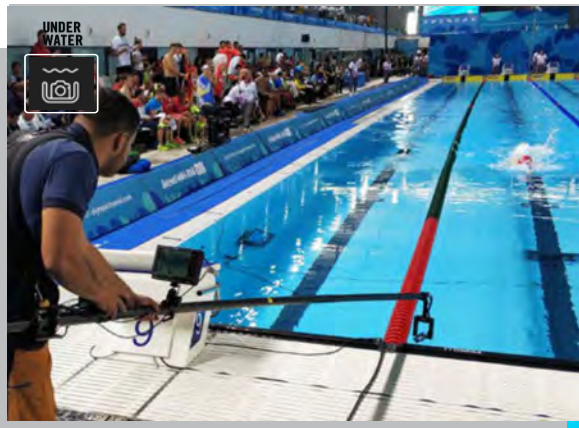
- 1/3" Sony CMOS Sensor
2.2M Pixels (Total) / 2.1M Pixels (Active)
- HD-SDI/3G-SDI Output
- 1080/720@25p/30p/50i/60i/50p/60p
- WDR / DNR / AGC / Sens-Up
- DC12V/24V
- 3 meters cable length
- 3 meters maximum depth of use
- Dimensions (L x W x H): 90mm x 65mm x 65mm

LENS

- Resolution:
5 megapixel, Exceeds 1920x1080 HD cameras
- Focal Lenght (mm):
2.8 mm
- Operation Zoom, Focus, Iris:
Manual
- Angle Of View (H) 16:9 - 1/3":
105°(W)

Underwater Camera Solutions

Go deeper with your pictures, placing our PTZ remote-controlled camera system underwater or using a completely submersible camera housing with Pan / Tilt on our MiniJib. X5U can be set on multiple applications even completely submerged at 3 meters maximum depth of use





Special Cameras



mini Jib

LIGHT CAMERA POLE

Light camera pole with carbon arm elements that can be assembled in a few minutes to a total length of 5,5m (18.2 ft) and let you move a camera where an ordinary crane cannot be used.

An electronically-stabilized PTR (Pan, Tilt, Roll) Head with a X5A MiniCam and a sensitive joystick, delivering smooth and accurate motion control. DJI Ronin head available in model 2022



The stabilization corrects all unwanted shaking and vibrations, but also keeps the camera pointed in the same direction, helping operation and delivering rock-steady shots.

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LowBoy[®]

BROADCAST CAMERA SEAT SPOT

The LowBoy[®] is a mobile camera seat for low shooting camera positions, very easy to transport and quick to assemble and disassemble.

Suitable for outdoor sport broadcasts such as football, athletics and tennis, or any other that needs a low position camera with 360° panning, with smooth, steady and noiseless operation.



Optional foot platform



Completely redesigned, this is a new generation of low camera seats, lighter, easier to carry, more discreet, with small-footprint implementation.

Key Features:

- 360° panning independent of the seat
- Smooth, steady and noiseless operation
- 6 short legs for stabilization in small space
- Seat adjustable in length and two different heights
- Adjustable leveling without projecting screws
- Very easy to operate, transport and assemble

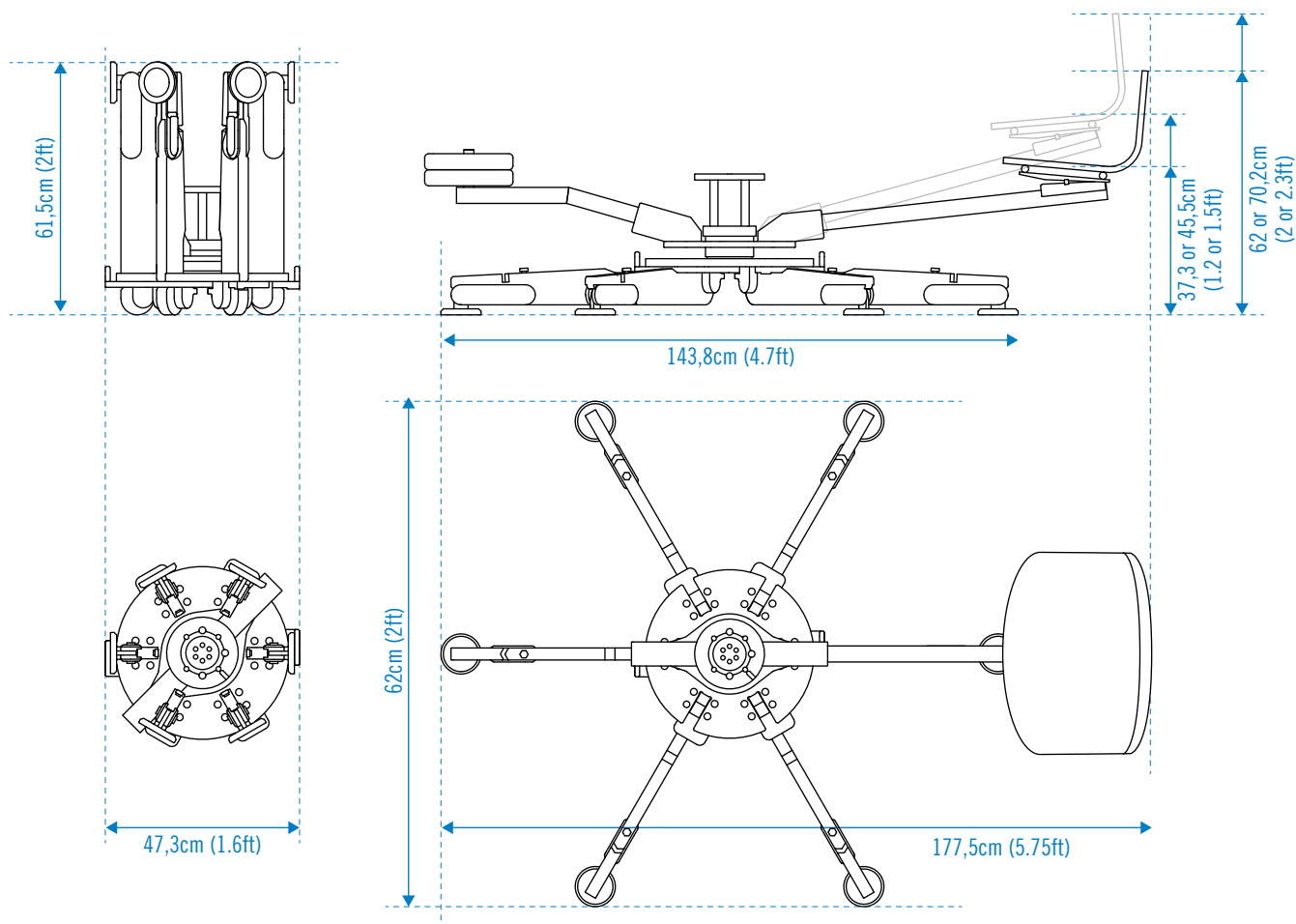


BROADCAST CAMERA SEAT SPOT



The LowBoy® is transported in a wheeled resin case with 81x59x49cm and 50kg (62Kg with optional platform).

Dimensions:



LinkBox

Transceiver Field Box + CCU Communication Link

Q4S® Family products



Q4S® Minilib with Ronin Head
Wide Angle Lens & Remote Iris



Q4S® MiniCam X5A & X5C
Wide Angle Lens & Remote Iris or manual Iris (X5C)



Q4S® MiniCam X5U
Underwater & Image control



Family products



MiniCam Atom SSM500
Up to 500 fps & Remote Iris



MiniCam AtomOne 4K 16
Smallest UHD 4K HDR Global shutter



MiniCam AtomOne mini Zoom
Smallest zoom broadcast camera



MiniCam AtomOne mini / AIR / WaterProof

Panasonic

SONY



Panasonic AW-UE150K 4K / Sony H800
And a large of others generic Robotic PTZ Camera



Q4S® Transceiver Field Box
Fiber Optic Transceiver Video/LAN with optional 12G



SMPTE Hybrid Cable
Power and Fiber Lemo 3K connectors
Up to 2Km



Q4S® Transceiver CCU
Fiber Optic Transceiver Video/LAN with optional 12G



SSM500 SSM Mode / Trigger Mode
Remote Clip Control



Q4S® RCP002 / 003
Universal Remote Control Panel



Panasonic AW-RP50
Remote Camera Controller



Sony RM-IP500
Remote Camera Controller

Other Ethernet Controller



Extra Fiber Channel
Additional Equipment Connection



Extra Fiber Channel
Additional Equipment Connection

MINICAM FIELDBOX

- **1 SMPTE hybrid Cable connector LEMO 3K®**
- **2 Channel Video HD-SDI-12G (1 bi-directional)**
 - Transmitter with 2 channel loop output
- **1 Port Network**
 - Ethernet: IEEE Protocol
 - Rate: 10M/100M
 - Interface: RJ45
- **1 Multi-Purpose Port (E6SERIES)**

HR10-10R-10S MULTI-PURPOSE
CONNECTOR 12V+5 DC OUT
CAN CONNECTIVITY



HPRC 2500 FIELDBOX external dimension
48x39x20cm

- **1 Extra Optical Fiber**
 - Interface: ST Connector
 - Mode: Single-Mode
 - Optical power LD: (-11 to -4)dBm
 - Receiving sensitivity: ≥ -26 dBm
- **Output 110-220VAC**
 - Chassis Female 3PIN AC IEC C13 Socket Plug
- **Input 110-220VAC**
 - Chassis Male 3PIN AC IEC C14 Socket Plug



Power consumption reference value: 150w

OUTPUTS

- Chassis Female 3PIN AC IEC C13 Socket Plug 220V/50w max consumption
- Multi-Purpose Port (E6SERIES) HR10-10R-10S MULTI-PURPOSE CONNECTOR 12V+5 DC OUT (12V 1A + 5V 1,5A)

MINICAM CCU (Camera Control Unit)



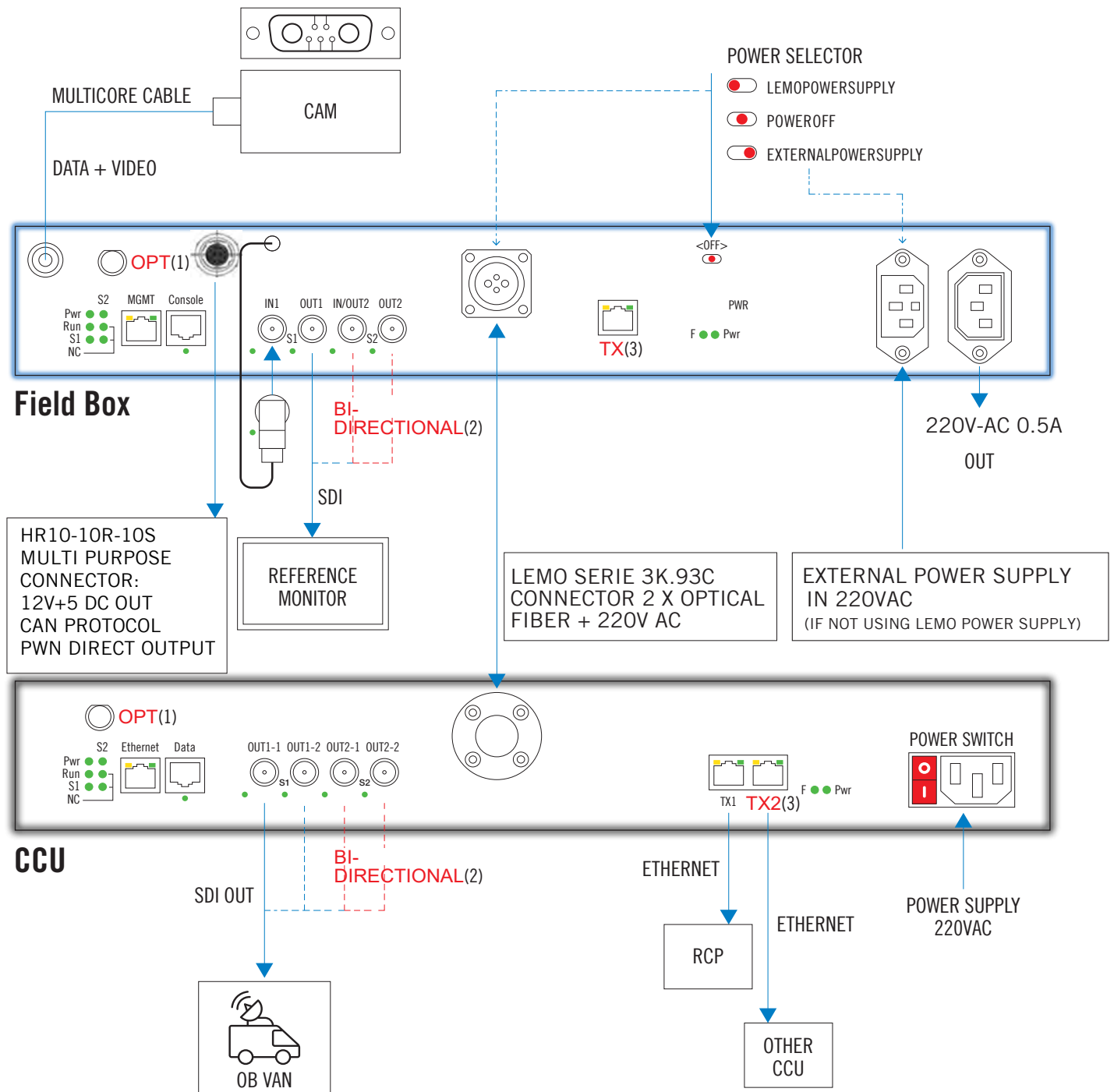
- 1 SMPTE hybrid Cable connector LEMO 3K®
· + 2Km distance
- 2 Channel Video HD-SDI/4K 12G
· One channel directional CCU to FieldBox
- 1 Extra Optical Fiber ST

Power consumption reference value: 50w MAX
(The values may vary depending on the length of the hybrid cable between the CCU and the FieldBox)



- Chassis rack dimension
 - Chassis Male 3PIN AC IEC C14 Socket Plug
 - 1.5U Rack mount
- 2 Ethernet switch port
· RJ-45 10/100
- Input 110-220VAC

Connection Diagram:



(1) Spare Optical Fiber way

(2) Standard config: CCU IN - Field Box OUT. Optional RCP-002 software config: Field Box IN - CCU OUT

(3) Extra Ethernet Port



Special Cameras

RCP003



RCP002 was first presented in 2014 by **O4S** as the first multi-cameras and multi-brands remote control panel using a **manche** for iris/pedestal control and joystick.

In 2022, **Omnicam4Sky** is pleased to introduce the **RCP003**, as an comprehensive evolution of the previous **RCP002**, keeping all its functions and added a few new ones more such as: automatic camera recognition, multi IP segments, tally & GPI I/O, standard **OCP/RCP** length size, **RGB** color led for all knobs. A user friendly GUI combined a 7" touch screen panel together with physical buttons and knobs, allow operators to quickly match and manage up to 10 cameras over an ethernet connection.



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RCP003

REMOTE CAMERA CONTROL PANEL

Q4S® Family products compatible cams



Q4S® MiniJib with Ronin Head
MiniCam X5A & X5C



Q4S® MiniCam X5U
Underwater & Image control



MiniCam AtomOne 4K 16 MiniCam AtomOne
mini / AIR / WaterProof



MiniCam Atom SSM500
Up to 500 fps & Remote Iris



MiniCam AtomOne mini Zoom
Smallest zoom broadcast camera



Marshall CV420-CS 4K60 12GSDI



Z CAM E2-M4 - 4K Ultra HD Micro Four Thirds Mount



Panasonic AW-UE150K 4K / UE100
And a large of others generic Robotic PTZ Camera



Vision Research Phantom V64x; Miro



BMD Studio; mini URSA; micro Studio &
BMD Teranex

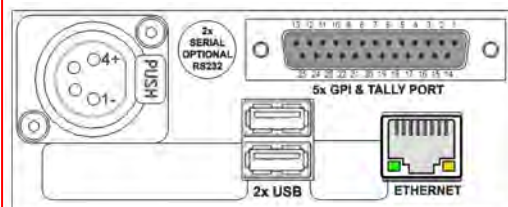
STANDARD MODE

RCP003
REMOTE CAMERA CONTROL PANEL



ADVANCED MODE

RCP003 back panel connections



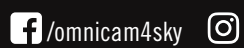
RCP003 connector quick reference

- In 1-5 GPI In - (Tally) DC 3V to 30V any polarity
- Out 1-5 GPI Out - Relay contact output Max 1A-30V



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Special Cameras

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