

043



Introduction

miniCam

X5A System/X5C

Introduction for **MINICAM X5A** system & **X5C** standalone camera

1. MINICAM X5A

- **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**

WDR (Wide Dynamic Range)

WDR allows a camera to filter the intense back light surrounding a subject and thus enhances the ability to distinguish features and shapes on the subject.

DNR (Digital Noise Reduction, 2D/3D-NR)

DNR technology will supply you with outstanding clear images by reducing noise of picture. DNR technology has excellent disk-saving effect. X5A supports brilliant DNR technologies like DNR, 3D-NR and 2D+3D.

- **2 Auto (AE/AWB) Control**

Slow Shutter control (Sens-Up), Color temperature Range (1800K ~ 10500K).

- **DC12V Internal**



2. VARIFOCAL LENS

- | | |
|---|---|
| • Resolution: | 3 megapixel, Exceeds 1920x1080 HD cameras |
| • Focal Length (mm): | 2.2 - 6 (2.7x) |
| • Iris Range: | F1.3 – Close |
| • Operation Zoom, Focus, Motorized Iris: | Manual |
| • Iris control w/ X5A System: | Motorized |
| • Angle Of View (HxV) 16:9 - 1/3": | WIDE: 129°43'x75°23'
TELE: 50°30'x28°38' |
| • Focusing Range (From Front Of The Lens) (m): | ∞ - 0.3 |
| • Object Dimensions at M.O.D. 16 : 9 - 1/3": | WIDE: 1324x479
TELE: 293x158 |

Note that the this lens has full in-focus wide angle/fisheye, including picture corners

3. MINICAM BOX

- **1 SMPTE hybrid Cable connector LEMO 3K®**
- **1 Channel Video HD-SDI**
 - Transmitter with 2 channel loop output
- **1 Port Network**
 - Ethernet: IEEE Protocol
 - Rate: 10M/100M
 - Interface: RJ45
- **1 Data 3**
 - Signals: RS232 (2Ch/Bidirecional)
 - Interface: Phoenix Connector 5P/
MC 1,5/12-ST-3,81
 - Bit rate: 0-256Kbps
 - Error rate: $\leq 10^{-9}$
- **1 Channel Video COMPOSITE**
 - Receiver
- **1 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



4. MINICAM CCU (Camera Control Unit)

- 1 SMPTE hybrid Cable connector LEMO 3K®

- 1 Channel Video HD-SDI
Receiver with 2 channel

- 1 Port Network

- Ethernet: IEEE Protocol
- Rate: 10M/100M
- Interface: RJ45

- 1 Data 3

- Signals: RS232 (2Ch/Bidirectional)
- Interface: Phoenix Connector 5P/
MC 1,5/12-ST-3,81
- Bit rate: 0-256Kbps
- Error rate: $\leq 10^{-9}$

- 1 Channel Video COMPOSITE

- Transmitter

- 1 Optical Fiber

- Interface: ST Connector
- Mode: Single-Mode
- Optical power L: (-11 to -4)dBm
- Receiving sensitivity: ≥ -26 dBm

- Input 110-220VAC

- Chassis Male 3PIN AC IEC C14 Socket Plug

- Chassis rack dimension

- 1.5U Rack mount



5. RCP 002 (Remote Control Panel)

Features:

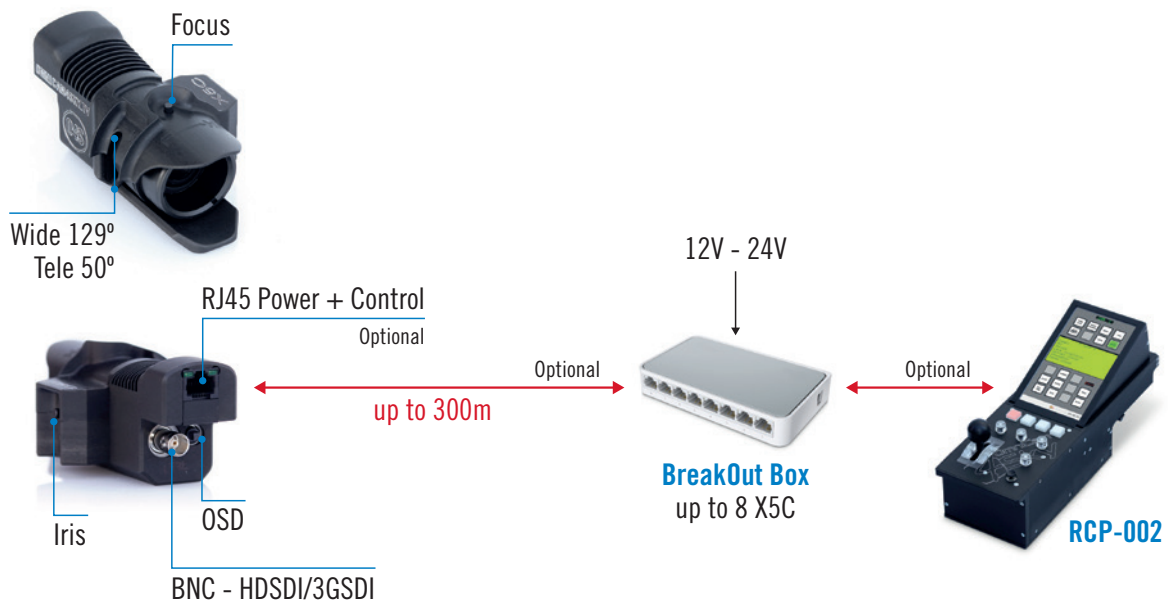
- RCP 002 is a universal remote control panel for various modes of cameras. The user interface is designed for convenience, with a menu with accessible functions on the touch screen for a detailed view and clear functions and values.
- Operates based on Ethernet using TCP/IP or Serial communication protocol.
- Can control 8 different type of cameras, directly from different manufacturers at the same time.
- Provides a remote diagnosis of camera and the operation of the transmission.
- Comfortable and ergonomic, with great flexibility and programmable buttons.
- Touch screen LCD with backlight and adjustable tilt to facilitate to the maximum reading.
- Easy configuration and selection of the camera number.
- 12V Power Supply



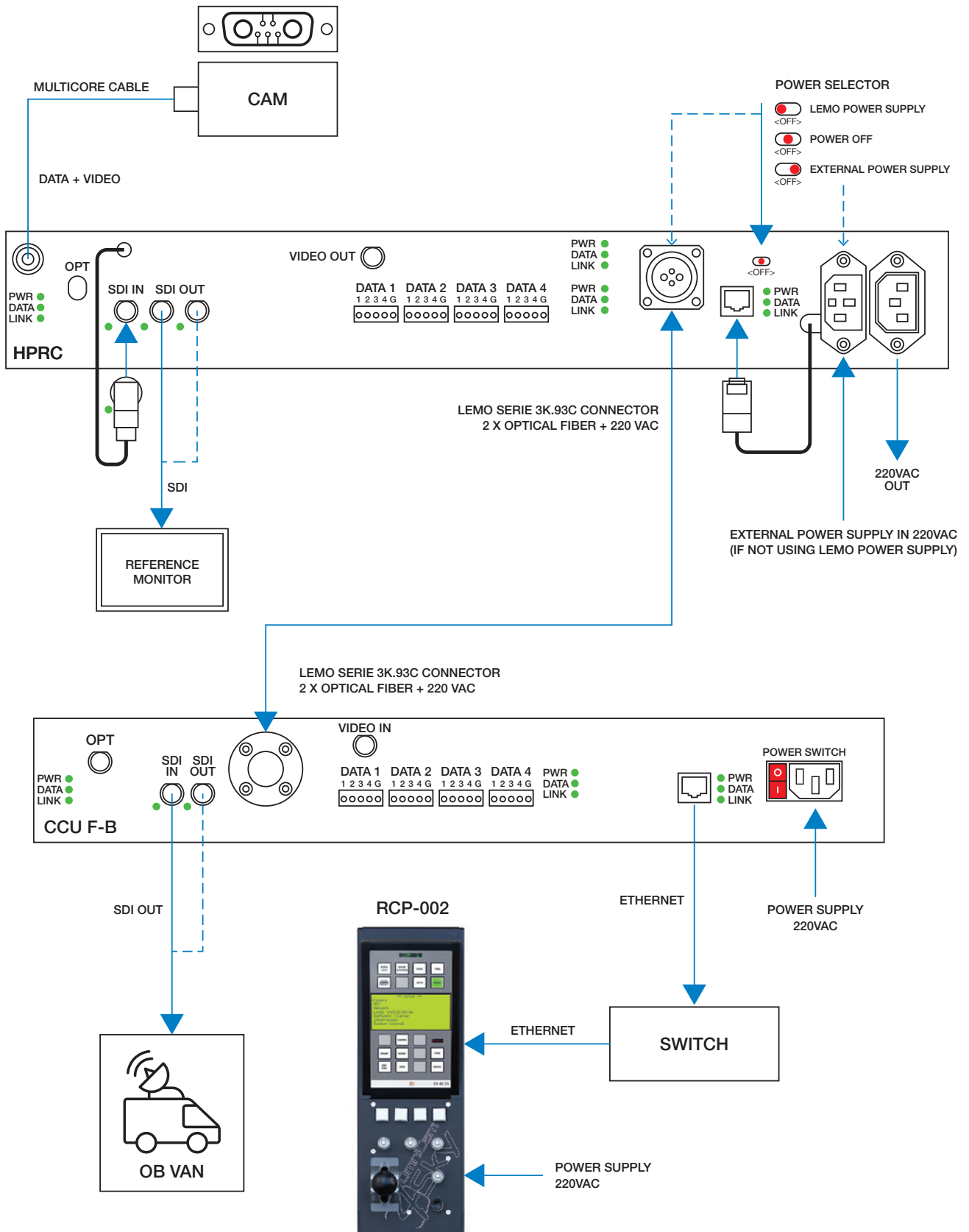
6. CONNECTION DIAGRAM X5C



7. CONNECTION DIAGRAM X5A



8. CONNECTION DETAIL X5A SYSTEM



10. X5A / X5C Full Specs

		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 / HSBLC	
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
Varifocal Lens		2.2mm – 6mm (2.7x)	
Iris Range		F1.3 – Close	
Operation	Zoom	Manual	
	Focus	Manual	
	Iris	Motorized remotly (RCP002)	Manual
Angle Of View (HXV) 16:9	WIDE	129°43' x 75°23'	
	TELE	50°30' x 28°38'	
Focusing Range		Tele: ∞ - 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
Dimension (LxWxH)		142mm X 63mm X 52mm	114mm x 59mm x 48mm
Weight		320g	210g

11. Suspension systems for InGoal

These systems are used because they don't depend on local conditions and can be used regardless the goal net and set up.

Spain Stadiums:



Other Stadiums:





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